

CONFIDENTIAL
Release On 2-24-74

R.W.

EXXON YUMA-FEDERAL
SW/NE Sec 8-T11S-R24W, Yuma Co. 604

COUNTY Yuma AREA 2.4 mi. E of San Luis LEASE NO. US A3499

WELL NAME EXXON ^{USA 1} CORP. YUMA-FEDERAL NO. 1 (Strat)

LOCATION SW/NE SEC 8 TWP 11S RANGE 24W FOOTAGE 1980 FNL - 1980 FEL
 ELEV 150 GR _____ KB SPUD DATE 1-15-73 STATUS P & A TOTAL _____
 COMP. DATE 3-6-73 DEPTH 11,444

CONTRACTOR LOFFLAND DRILLING COMPANY

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
16"	228	265 sx		<input checked="" type="checkbox"/>			
10 3/4"	2839	1110 sx					Dry Hole

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Colo. River Gravels	0-3161	X		See Completion Report for Brief Description
Transition Zone	3161			
Bouse	4087			
Kintner	6964 to			
	T.D.			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
BHC SONIC, IE			<input checked="" type="checkbox"/> <u>Am Strat</u>
COMP. FORMATION DENSITY			SAMPLE DESCRP. _____
<u>Rocky mt half scale log</u>			SAMPLE NO. <u>1725</u>
			CORE ANALYSIS <u>No cores</u>
			DSTs <u>None reported</u>

REMARKS Drilled as a straigraphic test APP. TO PLUG
 PLUGGING REP.
 COMP. REPORT

WATER WELL ACCEPTED BY Bureau of Reclamation - (Dry hole marker set by Exxon)

BOND CO. The American Insurance Company BOND NO. 5-10-11-58
 BOND AMT. \$ 25,000 CANCELLED 3-16-98 DATE 1-2-73
 FILING RECEIPT 2942 LOC. PLAT WELL BOOK PLAT BOOK
 API NO. 02-027-20006 DATE ISSUED 1-4-73 DEDICATION W/2 of NE/4 80 acres

PERMIT NUMBER 604 **CONFIDENTIAL**
 Release Date 2-24-74
 (over)

DRILL STEM TEST

NO.	FROM	TO	RESULTS
			None Reported

CORE RECORD

NO.	FROM	TO	RECOVERY	REMARKS
				None Reported

REMEDIAL HISTORY

DATE STARTED - COMPLETED	WORK PERFORMED	NEW PERFORATIONS

ADDITIONAL INFORMATION

This well had considerable lost circulation problems prior to setting 10 3/4" surface.

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator Exxon Corporation		Address P. O. Box 1600, Midland, Texas 79701	
Federal, State or Indian Lease Number or name of lessor if fee lease (Federal US A-3499) Yuma-Federal		Well Number 1	Field & Reservoir Stratigraphic Test
Location 1,980' FNL & 1,980 FEL		County Yuma	
Sec. TWP-Range or Block & Survey Section 8, T-11-S, R-24-W			
Date spudded 1-15-73	Date total depth reached 2-22-73	Date completed, ready to produce Dry Hole	Elevation (DP, RKB, RT or Gr.) feet 150 GR
Total depth 11,444'	P.B.T.D. 2,789'	Single, dual or triple completion? Dry Hole	Elevation of casing hd. flange feet - -
Producing interval (s) for this completion Dry Hole		Rotary tools used (interval) 0 - 11,444'	Cable tools used (interval) - -
Was this well directionally drilled? No	Was directional survey made? No	Was copy of directional survey filed? No	Date filed - -
Type of electrical or other logs run (check logs filed with the commission) Sample Log; BHC Sonic; Induction Electric and Compensated Neutron-Formation Density			Date filed 3-6-73

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Conductor	20"	16"	65#	228'	265 sx	None
Surface	13-3/4"	10-3/4"	40.5# & 45.5#	2,839'	1,110 sx	None

TUBING RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
None in.	ft.	ft.	in.	None ft.	ft.		

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
None			None	

INITIAL PRODUCTION

Date of first production Dry Hole		Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)				
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)
Tubing pressure	Casing pressure	Cal'ated rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio

Disposition of gas (state whether vented, used for fuel or sold):

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Proration Specialist of the Exxon Corporation (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

3-6-73
Date

D. L. Clemmer
Signature

NOTE: Copies of Logs filed with this report.

Permit No. 604

RECEIVED

MAR 07 1973

O & G CONS. COMM.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log

Form No. 4

File One Copy

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Colorado River Gravels	Surface	3,161	Gravels with minor amounts of coarse sand to 1,030'. Interbedded coarse sand and gravel with minor amounts of shale to 3,161'.
Transition Zone	3,161	4,087	Pelecypod fragments, first occurrence at 3,161'. Interbeds of sand and gray and tan shale grading downward into shale.
Bouse fm.	4,087	6,964	Firm massive gray shale with marine fossils. Occasional interbeds of V.f.g. sand.
Kinter fm.	6,964'	11,444	First occurrence of volcanics, ash-flow tuff. Tuffs to 8,500'. Below 8,500' section is composed of alternating beds of basalt flows and conglomerates from 11,000' to T.D. well penetrated fine, red, mineralized siltstone. TD 11,444'.

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

PLUGGING RECORD

Operator Exxon Corporation		Address P. O. Box 1600, Midland, Texas 79701	
Federal, State, or Indian Lease Number, Yuma-Federal or lessor's name if fee lease. (Federal US A-3499)		Well No. 1	Field & Reservoir Stratigraphic Test
Location of Well 1,980' FNL & 1,980' FEL Section 8, T-11-S, R-24-W		Sec-Twp-Rge or Block & Survey	County Yuma
Application to drill this well was filed in name of Exxon Corporation	Has this well ever produced oil or gas No	Character of well at completion (initial production): Oil (bbls/day) Dry Hole Gas (MCF/day) Dry Hole Dry? Yes	
Date plugged: February 24, 1973	Total depth 11,444'	Amount well producing when plugged: Oil (bbls/day) None Gas (MCF/day) None Water (bbls/day) None	
Name of each formation con- taining oil or gas. Indicate which formation open to well- bore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used Indicate zones squeeze cemented, giving amount cement
None-Dry Hole			see Attached Form 25 for plugs.

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc.)	Packers and shoes
16"	228'	None	228'	- -	None
10-3/4"	2,839'	None	2,839'	- -	None

Was well filled with mud-laden fluid, according to regulations?
Yes

Indicate deepest formation containing fresh water.
2,965'

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well:
U.S.A. Public Domain	%Bureau of Land Management 3022 Federal Building Phoenix, Arizona 85025	All Sides

In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

See Form 25, "Sundry Notices and Reports on Wells" dated March 5, 1973 that shows actual plugs set in this well since the Bureau of Reclamation has assumed responsibility for the future operations and final plugging of this well.

Use reverse side for additional detail.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Acting Div. Dirg. Oper. Supt. of the Exxon Corporation (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

March 5, 1973
Date

Paul H. ...
Signature

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**MAR 07 1973
O & G CONS. COMM.**

**STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Plugging Record
File One Copy**

Permit No. **604**

Form No. 10

APPLICATION TO ABANDON AND PLUG

FIELD Stratigraphic Test Hole
 OPERATOR Exxon Corporation ADDRESS P. O. Box 1600, Midland, Texas 79701
 Federal, State, or Indian Lease Number
 or Lessor's Name if Fee Lease Yuma Federal (Fed. US A-3499) WELL NO. 1
 SURVEY T-11-S, R-24-W SECTION 8 COUNTY Yuma
 LOCATION 1,980' FNL & 1,980' FEL

TYPE OF WELL Dry Hole TOTAL DEPTH 11,444'
(Oil, Gas or Dry Hole)
 ALLOWABLE (If Assigned) _____
 LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
 GAS _____ (MCF) DATE OF TEST _____
 PRODUCING HORIZON Dry Hole PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD

16" 65# H-40 casing - set at 228' - cemented w/265 sx Class "A"-Cement circulated
10-3/4" 40.5 & 45.5# J-55 Casing - set at 2,839' - Cemented w/1,110 sx Class "C" Cement

2. FULL DETAILS OF PROPOSED PLAN OF WORK Plug and abandon well as follows:

Plug #1	10,650 - 10,515	w/50 sx
Plug #2	7,100 - 6,938	w/75 sx
Plug #3	5,000 - 4,838	w/75 sx
Plug #4	3,300 - 3,138	w/75 sx
Plug #5	2,889 - 2,724	w/100 sx

~~Plug #6 20 - 0 w/10 sx~~ well
Placed 9.2# mud between plugs, installed dry hole marker, verbal approval obtained 2-22-73.
 If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS Drill 1-15-73; plug and abandon 2-22-73
 NAME OF PERSON DOING WORK Exxon Corporation ADDRESS P. O. Box 1600, Midland, Texas 79701
 CORRESPONDENCE SHOULD BE SENT TO Exxon Corporation
 Name
 Orig. & lcc: OGCC-State of Division Drilling Superintendent
 Arizona Title
 lcc: Drilling Sec. P. O. Box 1600, Midland, Texas 79701
 Address
 lcc: Central File
 lcc: D. L. Clemmer February 22, 1973
 Date

Date Approved 2-26-73
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: [Signature]

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 File Two Copies
 RECEIVED
 Form No. 9

Permit No. 604

FEB 26 1973
 O & G CONS. COMM.

file

TO: Oil and Gas Conservation Commission
State of Arizona
1624 W. Adams, Room 202
Phoenix, Arizona 85007

This is to advise you that I accept the abandoned wildcat well, known as the
EXXON CORPORATION, YUMA-FEDERAL WELL NO. 1 located on the SW/NE $\frac{1}{4}$ - $\frac{1}{4}$

of Section 8 Township 11S Range 24W, County of Yuma
Arizona, as a ~~water well to be used for domestic purposes~~ ground water obser-
vation well.

Further, I accept full responsibility for the proper maintenance and use of
the above well, including final plugging, in full compliance with the Rules
and Regulations adopted by the Oil and Gas Conservation Commission.

I understand that I am responsible for compliance with the provisions of the
State Water Code, Chapter 1, Title 45, Arizona Revised Statutes and with any
applicable requirements of U.S. Geological Survey.

Signature E. A. Lundberg
Address Regional Director, Lower Colorado Region
Bureau of Reclamation
P. O. Box 427
Boulder City, Nevada 89005

State of Nevada
County of Clark

On this, the 8th day of March, 1973, before me, _____

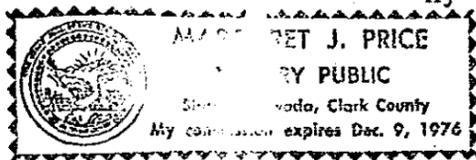
Margaret J. Price, the undersigned officer, personally appeared

Edward A. Lundberg, known to me (or satisfactorily proven)
to be the person whose name is subscribed to the within instrument and ack-
nowledged that he executed the same for the
purpose therein contained.

In witness whereof I hereunto set my hand and official seal.

Notary Public Margaret J. Price

My Commission expires December 9, 1976



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MAR 16 1973

O & G CONS. COMM.

State of Arizona
OIL & GAS CONSERVATION COMMISSION
WATER WELL ACCEPTANCE
Form 26 - File one copy

Permit No. 604

Exxon Corporation
Yuma-Federal Well No. 1
Sec. 8-8-511S-R-24-W

TO: Oil and Gas Conservation Commission
State of Arizona
1624 W. Adams, Room 202
Phoenix, Arizona 85007

This is to advise you that I accept the abandoned wildcat well, known as the
Yuma-Federal Well # 1 located on the SW-NE $\frac{1}{4}$ - $\frac{1}{4}$
of Section 8 Township 11-S Range 24-W, County of Yuma, Arizona.
Arizona, as a water well to be used for domestic purposes.

Further, I accept full responsibility for the proper maintenance and use of
the above well, including final plugging, in full compliance with the Rules
and Regulations adopted by the Oil and Gas Conservation Commission.

I understand that I am responsible for compliance with the provisions of the
State Water Code, Chapter 1, Title 45, Arizona Revised Statutes and with any
applicable requirements of U.S. Geological Survey.

NOTE: See letter dated 2-28-73
Interior, Bureau of Reclamation

Signature _____
Address _____

State of _____
County of _____

On this, the _____ day of _____, 19____, before me, _____
_____, the undersigned officer, personally appeared

_____, known to me (or satisfactorily proven)
to be the person whose name is subscribed to the within instrument and ack-
nowledged that _____ executed the same for the
purpose therein contained.

In witness whereof I hereunto set my hand and official seal.

Notary Public _____
My Commission expires _____

RECEIVED

MAY 07 1973

O & G CONS. COMM.

State of Arizona
OIL & GAS CONSERVATION COMMISSION
WATER WELL ACCEPTANCE
Form 26 - File one copy

Permit No. 604

ROSEMARY ASKIN JACOBSON
PALYNOLOGIST

7548 SOUTH WEBSTER COURT
LITTLETON, COLORADO 80123
(303) 973-8749

January 15, 1984

LOCALITY: Exxon Yuma-Federal
T11, R8E, Sec. 8
Yuma County, Arizona

Permit # 604

REQUEST: Age and thermal maturation using palynomorphs for 8 cuttings samples

SAMPLES: Eight (8) cuttings samples were provided, with depths of:

1250 m
4100-4200'
4500-4600'
5000-5100'
5200-5300'
5500-5600'
6000-6100'
6500-6600'
6700-6800'

5235 = Base boundary of 1250 m

2,073 m

RESULTS: All 8 samples contain abundant palynomorphs exhibiting a wide range of thermal maturity and ages. They exhibit some of the problems inherent in cuttings samples.

Contamination is an ever-present possibility in cuttings samples, and can affect, to varying degrees, age interpretation and kerogen analyses. Contamination may be the result of lack of care in collecting, uphole cavings, or mud-additives. Cavings may come from a considerable distance uphole, and can be particularly evident after testing or fishing activity. Mud-additives such as bentonite (thixotropic agent), lignite (dispersant), and cedar fiber, walnut hulls, etc. (lost circulation material) can contain "kerogen" or palynomorphs in sufficient quantity to mask the original organic constituents of the rocks.

The various components of these samples, with their differing ages and thermal maturations, and possible sources, are discussed below. All of these components are found in each of the submitted samples.

Component 1. This assemblage consists of marine palynomorphs (dinoflagellate cysts) plus bisaccate and angiospermous pollen of late Senonian (Late Cretaceous) age and light color (immature). These

palynomorphs are believed to be mud-additive contaminants.

Component 2. This assemblage includes rare darker-colored (Thermal Alteration Index, T.A.I., about 2+ on the GeoChem Scale) Campanian (Late Cretaceous) palynomorphs, mainly nonmarine. These may be reworked from older rocks.

Component 3. Dark brown (T.A.I. about 3+) bisaccate pollen are very rare and may be reworked from older rocks.

Component 4. This component consists of light-colored to very light-colored pollen that include probable uphole-cavings contaminants and Recent palynomorphs.

Component 5. This assemblage is the dominant constituent of the samples, comprising 65-80%. It is nonmarine and includes pollen and rare spores of Tertiary age, i.e. middle Eocene and younger. T.A.I. values range from slightly less than 2 to slightly less than 2+ and are within the oil generative regime.

Component 6. This component includes pollen of uppermost Oligocene or younger age, i.e. Compositae. T.A.I. values are similar to those of component 5. These pollen are more common in the younger samples, gradually decreasing in relative abundance downhole to 6800'.

We believe a large proportion of the palynomorph assemblages from 4100' to 6800' represent uphole-cavings contaminants. No palynomorphs restricted to Paleocene or Eocene age (or their palynomorph zonal subdivisions) occur in these samples, but the observed assemblages do not entirely preclude a Paleogene age masked by younger cavings contaminants. Compositae (Component 6) pollen decrease downhole, and in lower samples are almost certainly from caving. The sampled interval is possibly as old as Eocene, with the upper portion (4100' to 5300'?) perhaps uppermost Oligocene or younger. The dominant palynomorph assemblage (Component 5) includes mainly forms characteristic of an arid environment (pollen of Chenopodiaceae, *Ephedra* spp., etc.) very similar to the palynomorphs of plants living in the region from Late Oligocene and Miocene to the present.

Thermal Maturity. To accurately measure thermal maturity, the same substance must be used from sample to sample to standardize and correlate results. Either vitrinite reflectance or palynomorph wall color are used if present.

Palynomorph wall color varies from pale yellow to yellowish orange in the immature phase, to orange brown in the oil generative phase, to red-brown in the wet gas phase, through dark brown and dark brownish black in the dry gas phase, to opaque black where only traces of dry gas and CO₂

may occur. Using this visual method the thermal maturity or Thermal Alteration Index (T.A.I.) was estimated.

Thermal maturation values, as indicated above, include a wide range in these samples. It is probable that kerogen in the rocks from 4100' to 6800' is thermally within the oil generative regime, ranging from a T.A.I. of slightly less than 2 at 4100-4200' to about T.A.I. 2+ at 6700-6800'.



GEOCHEMICAL ANALYSES
SOURCE ROCK EVALUATION

CRUDE OIL-SOURCE ROCK CORRELATION

CRUDE OIL CHARACTERIZATION

GEOCHEMICAL PROSPECTING

GEOCHEM LABORATORIES, INC. 14697-G EAST EASTER AVENUE ENGLEWOOD, COLORADO 80112 PHONE (303) 693-0220

30 December 1983

*Permit No. 604
Yuma-Federal
"EXXON"*

Mr. Joe Kulik
INEXCO OIL COMPANY
500 Lincoln Tower Building
Denver, CO 80295

Re: GeoChem Job No. D1118

Dear Mr. Kulik:

Please find enclosed the results of the geochemical screening analysis on the eight (8) samples as you requested.

If you should have any questions concerning the analysis, please do not hesitate to call us.

Sincerely,

Randy W. Perlis

Randy W. Perlis
Technical Manager

RWP:pkn
Enclosure

RESULTS OF TOTAL ORGANIC CARBON

GEOCHEM SAMPLE NUMBER	CLIENT IDENTIFICATION NUMBER	TOTAL ORGANIC CARBON (% of Rock)
D1118-001	Depth 4100'-4200'	0.27
D1118-002	Depth 4500'-4600'	0.25
D1118-003	Depth 5000'-5100'	0.36
D1118-004	Depth 5200'-5300'	0.40
D1118-005	Depth 5500'-5600'	0.36
D1118-006	Depth 6000'-6100'	0.45
D1118-007	Depth 6500'-6600'	0.34/0.35
D1118-008	Depth 6700'-6800'	0.24

T.O.C. = Total organic carbon, wt. %
S1 = Free hydrocarbons, mg HC/g of rock
S2 = Residual hydrocarbon potential (mg HC/g of rock)
S3 = CO₂ produced from kerogen pyrolysis (mg CO₂/g of rock)

Hydrogen Index = mg HC/g organic carbon
Oxygen Index = mg CO₂/g organic carbon
PI = S1/S1 + S2
Tmax = Temperature Index, degrees C.

RESULTS OF ROCK-EVAL PYROLYSIS

GeoChem Sample No.	Client Identification Number	Tmax (C)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	PI	S2/S1	T.O.C. (wt. %)	Hydrogen Index	Oxygen Index
D1118-004	Depth 5200'-5300'		0.08	0.14	0.39	0.36	0.35	0.40	34.8	98.7
D1118-006	Depth 6000'-6100'		0.06	0.14	0.36	0.29	0.38	0.45	30.5	80.8

DEC 28, 1983
TIME= 1146

GEOCOM ROCK EVAL II

DEPTH	S1	S2	S3	TMAX	PI	S2/S3	TOC	HI	OI
18004	00.08	000.14	00.39		0.36	00.35	00.40	034.8	098.7
18006	00.06	000.14	00.36		0.29	00.38	00.45	030.5	080.8

LEGEND

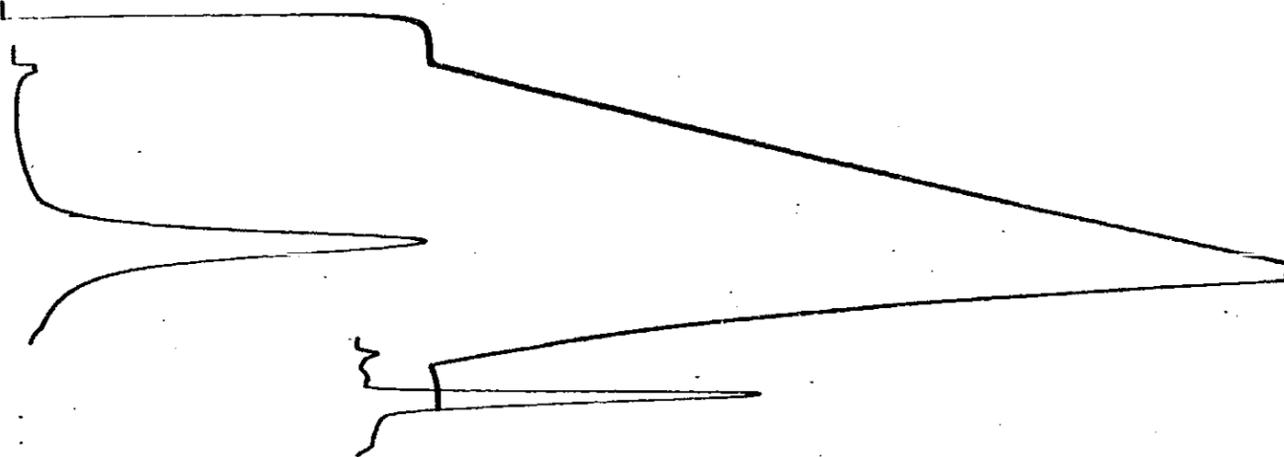
- = NEGATIVE DATA
* = SIGNAL > A/D LIMIT
+ = DATA > COLUMN LIMIT
= INVALID DATA/RESULTS



GEOCOM ROCK EVAL II

DEC 28, 1983
TIME= 0952
ID= 11111
FID ATTENUATION= 32
TCD ATTENUATION= 32

0% 50% 90%
100 350 550

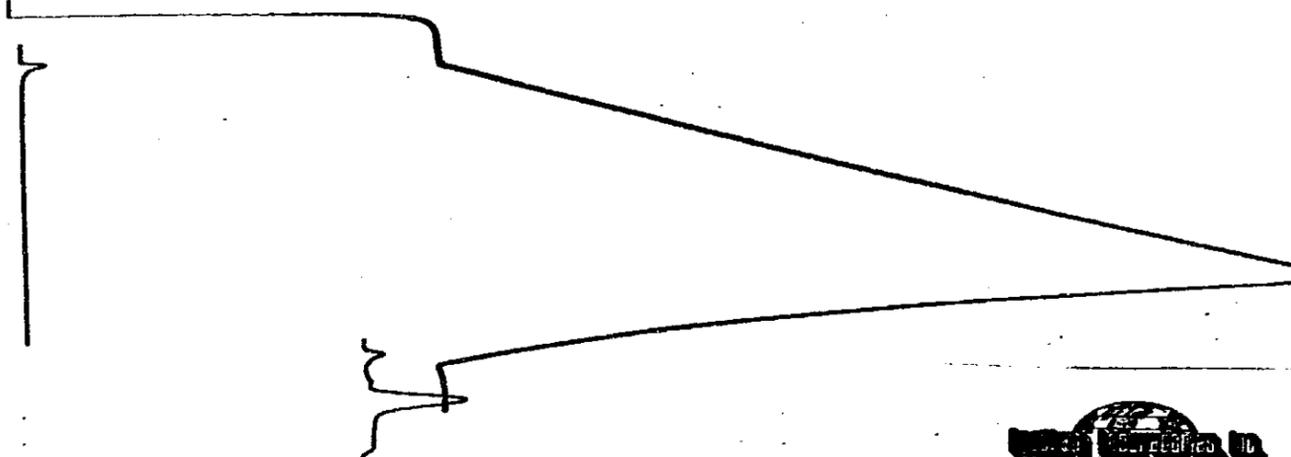


TOC = 2.80
WT = 100.0
TMAX = 438 DEGREES C
S1= 00000E+00 SUM= +5.820E+02
S2= +4.460E+00 SUM= +2.919E+04
S3= +6.230E-01 SUM= +9.071E+03
STANDARD

GEOCOM ROCK EVAL II

DEC 28, 1983
TIME= 1021
ID= 00000
FID ATTENUATION= 32
TCD ATTENUATION= 32

0% 50% 90%
100 350 550

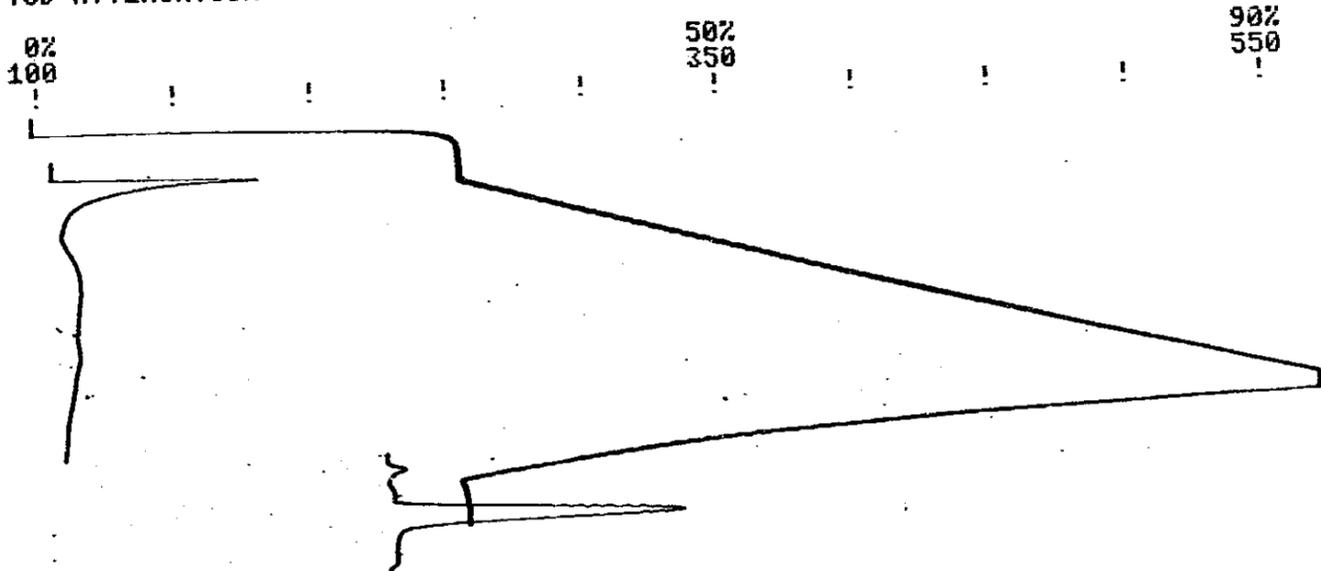


B3= +2.133E-01 SUM= +2.314E+03
BLANK



GEOCOM ROCK EVAL II

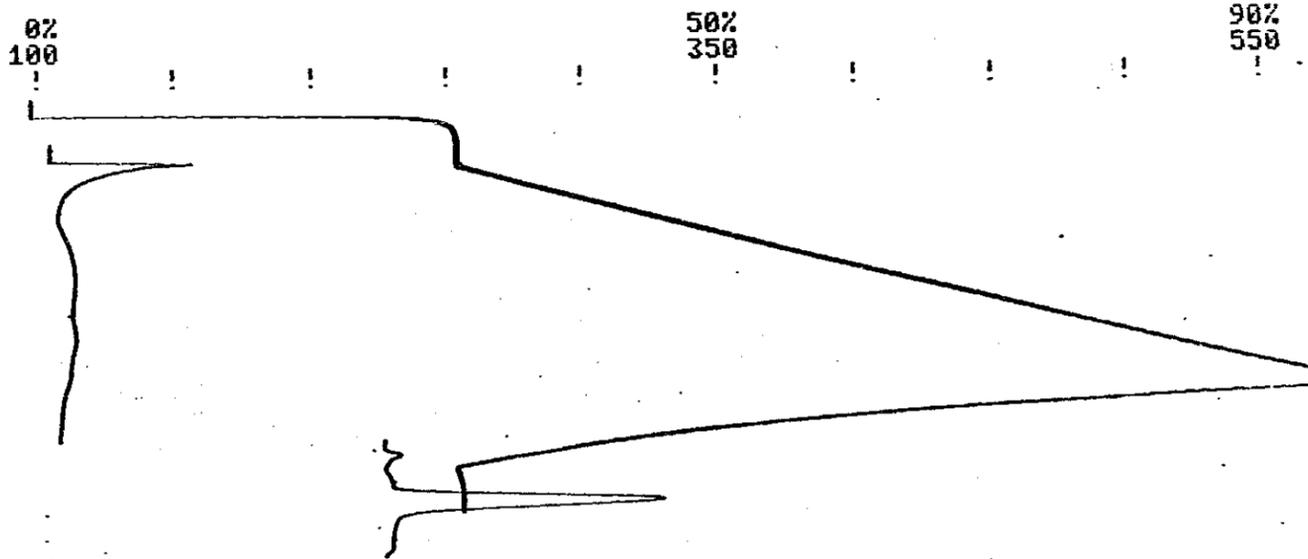
DEC 28, 1983
TIME= 1050
ID= 18004
FID ATTENUATION= 4
TCD ATTENUATION= 32



TOC = 0.40
WT = 99.0
S1= +7.838E-02 SUM= +5.080E+02
S2= +1.393E-01 SUM= +9.030E+02
S3= +3.948E-01 SUM= +6.554E+03
UNKNOWN

GEOCON ROCK EVAL II

DEC 28, 1983
TIME= 1118
ID= 18006
FID ATTENUATION= 4
TCD ATTENUATION= 32



TOC = 0.45
WT = 99.3
S1= +5.630E-02 SUM= +3.660E+02
S2= +1.370E-01 SUM= +8.910E+02
S3= +3.637E-01 SUM= +6.232E+03
UNKNOWN

GEOLOGICAL SURVEY
 Form 1-121 (Rev. 1-1963)
 MAR 7 - 1973

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
 (Other instructions on reverse side)

Form approved.
 Budget Bureau No. 42-R1424

SUNDRY NOTICES AND REPORTS ON WELLS
 BAKERSFIELD - Use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.

1. OIL WELL GAS WELL OTHER Stratigraphic Test Hole

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1600, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
 At surface 1,980' FNL & 1,980' FEL

5. LEASE DESIGNATION AND SERIAL NO.
Federal US A-3499

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Yuma-Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Stratigraphic Test Hole

11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA
Sec. 8, T-11-S, R-24-W

12. COUNTY OR PARISH; 13. STATE
Yuma Arizona

14. PERMIT NO.
None-Approved 1-3-73

15. ELEVATIONS (Show whether LF, RL, GR, ETC.)
150' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PELL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plugged and abandoned on 2-24-73 as follows:

Plug No.	Sacks	Type Class "G"	Plug From	Plug To
1	50	}	10,650	10,550
2	75		7,100	7,000
3	75		5,000	4,900
4	75		3,300	3,200
5	100		2,889	2,789

Placed 9.2# mud between plugs, installed dry hole marker, cleaned mud pits. Released rig at 9:00 p.m. 2-24-73.

NOTE: Surface plug was not set since the Bureau of Reclamation assumed responsibility for the further operation and final plugging of this well.

Orig. & ^{icc}cc: U.S.G.S., 309 Federal Bldg., 800 Truxton Avenue, Bakersfield, Calif. 93301
 cc: Drilling Section Inspected and found satisfactory 8-10-74
 cc: Central File By D. F. Russell
 2cc: D. L. Clemmer

18. I hereby certify that the foregoing is true and correct

SIGNED D. L. Clemmer TITLE Proration Specialist DATE 3-5-73
 (This space for Federal or State office use)

APPROVED BY D. F. Russell TITLE District Engineer DATE August 14, 1974
 CONDITIONS OF APPROVAL, IF ANY: D. F. Russell

cc: Oil & Gas Conservation
 Phoenix, Arizona

*See Instructions on Reverse Side
 This copy for

RECEIVED
 AUG 19 1974

HUMBLE (EXXON) STRAT HOLES
 BASIN & RANGE PROVINCE, ARIZONA

ELECTRIC LOGS AVAILABLE FOR INSPECTION OR REPRODUCTION IN FILES OF
 OIL & GAS CONSERVATION COMMISSION

Permit Number	County	Location	Lease	Full-Scale Blue-line Prints	Half-Scale Blue-line Prints	Half-Scale Film Negatives	Half-Scale Film Positives
583	Pinal	8S- 8E- 2	1 State (74)	Yes	Yes	No	Yes
588	Yuma	3S-11W-25	State 14	Yes	Yes	Yes	Yes
597	Pima	16S-15E- 5	1 State (32)	Yes	Yes	Yes	Yes
604	Yuma	11S-24W- 8	Yuma Federal 1	Yes	Yes	No	No

- PLEASE NOTE: 1) Logs of the above wells are available for purchase from Rocky Mounyain Well Log Service, 1753 Champa St., Denver, Colorado 80202, and Electrical Log Services, 105 West Wall, Midland, Texas 79701.
- 2) Reproductions directly from Commission's files must be at private expense through a local reproduction company. Phoenix Blue Print Co., 4141 North 7th St., Phoenix, Arizona 85014

OTHER LOGS AVAILABLE*

Pencil or Xerox copies of graphic lithologic or "mud" logs

	Lithologic	"Mud"
583	Yes	No
588	Yes	No
597	Yes	Yes
604	Yes	No

PLEASE NOTE: American Stratigraphic Company, 6280 E. 39th Ave., Denver, Colorado 80207, has issued a stratigraphic log of Well No. 583, is currently examining samples of Well No. 597, and will probably examine samples of Well No. 604

OTHER MATERIAL SUBMITTED BY OPERATOR*

Intention to Drill, Completion Report, Surveyor's Plat, etc.

* Copies of these items may be purchased from The Oil & Gas Conservation Commission, 4515 N. 7th Ave., Phoenix, Arizona 85013, at 25¢ per foot for continuous logs and 20¢ per page for other material, plus postage.

MEMORANDUM

May 21, 1973

FROM: J. R. Scurlock

SUBJECT: Humble Samples

Received thirteen cardboard cartons containing samples in duplicate representing each of the four Humble wells (Permits 583, 588, 597 and 604). Susie has opened all of the boxes and has checked intervals. All okay except that there appears to be only one set of samples for the interval 8400-8500 on the Humble 32 State. Envelopes are sufficiently full so that the samples in this interval can be divided to make up the duplicate.

In repacking the thirteen cartons it seems that somehow two boxes were left over. Therefore, these boxes were emptied and folded and their contents fitted into the large carton. The box containing samples on the Yuma 1 Federal, interval 11,000-11,444, was thus folded and placed in carton No. 5. The box on the same well, interval 10,500-11,000, was emptied and folded into carton No. 4.

The thirteen cartons now have been enumerated, resealed, and stored on the shelf awaiting the expiration of the confidential period.

SAMPLE INTERVALS

Humble 1 State (14)

42-700
700-1500
1500-2300
2300-2653
2598-2628.7

Humble 1 State (74)

46-800	3500-4100	5800-7500
800-1400	4100-4800	7500-8200
1400-2000	4800-5400	8200-8900
2000-2804	5400-6100	8900-9600
2800-3500	6100-6800	9600-10179

Humble 1 State (32)

230-800	3100-3800	6400-7100	9700-10300
800-1400	3800-4400	7100-7800	10300-10900
1400-1900	4400-5000	7800-8400	10900-11600
1900-2500	5000-5700	8400-9100	11600-12300
2500-3100	5700-6400	9100-9700	12300-12556

Yuma 1 Federal

230-800	3100-3700	5600-6000	8000-8500	10500-11000
800-1400	3700-4200	6000-6500	8500-9000	11000-11444
1400-1900	4200-4600	6500-7000	9000-9500	
1900-2500	4600-5100	7000-7500	9500-10000	
2500-3100	5100-5600	7500-8000	10000-10500	

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 - MIDLAND, TEXAS 79701

May 7, 1973

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION

File No. 22-3

Well Samples

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Attention: Mr. W. E. Allen

Gentlemen:

As agreed to in your telephone conversation with Mr. Ben Stanley, we are forwarding two (2) sets of well samples from the following wells drilled in the State of Arizona:

<u>Lease Name & Well Nos.</u>	<u>Section, Township, Range</u>	<u>County</u>
State (14) Well No. 1	Section 25, T-3-S, R-11-W	Yuma
State (32) Well No. 1	Section 5, T-16-S, R-15-E	Pima
State (74) Well No. 1	Section 2, T-8-S, R-8-E	Pinal
Yuma-Federal Well No. 1	Section 8, T-11-S, R-24-W	Yuma

One set of samples is for the Arizona Bureau of Mines. We appreciate your willingness to accept these and seeing that neither set is released during the confidential period that has been granted by your office.

We believe this transmittal of well samples completes your requirements regarding information on the wells drilled; however, if additional information is required, please advise.

Very truly yours,

OIL & GAS ACCOUNTING SECTION

D. L. Clemmer

D. L. Clemmer
Proration Specialist

DLC:mej

cc: Mr. D. G. Garrett

RECEIVED

MAY 09 1973

O & G CONS. COMM.

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 - MIDLAND, TEXAS 79701

May 7, 1973

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION

File No. 22-3

Well Samples

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

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State (32) Well No. 1	Section 5, T-16-S, R-15-E	Pima
State (74) Well No. 1	Section 2, T-8-S, R-8-E	Pinal
Yuma-Federal Well No. ①	Section 8, T-11-S, R-24-W	Yuma

One set of samples is for the Arizona Bureau of Mines. We appreciate your willingness to accept these and seeing that neither set is released during the confidential period that has been granted by your office.

We believe this transmittal of well samples completes your requirements regarding information on the wells drilled; however, if additional information is required, please advise.

Very truly yours,

OIL & GAS ACCOUNTING SECTION

D. L. Clemmer

D. L. Clemmer
Proration Specialist

DLC:mej

cc: Mr. D. G. Garrett

RECEIVED

MAY 09 1973

O & G CONS. COMM.

70*

THIS IS A PRESS RELEASE BY HARRY MARTIN, APRIL 11, 1973

Exxon Company, U.S.A., a division of Exxon Corporation, has completed analysis and evaluation of extensive seismic and stratigraphic testing programs which were conducted in Southwestern Arizona. Based upon the results of these analyses, Exxon wishes to announce the termination of its exploration program in this area. It is anticipated that a large percentage of Exxon's lease holdings in the southwestern portion of the state will be allowed to expire.

The Exxon Company wishes to especially thank and express its gratitude to all of the state and federal agencies for their aid and cooperation extended during the course of this program. The citizens of the State of Arizona can justly be proud of the manner in which they themselves, their academic institutions, and their governing bodies encouraged and helped to promote these exploration activities in their state.

We sincerely hope that at some future date, our exploration activities will direct us again into the State of Arizona.

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation
 2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole
 3. Well Name Yuma-Federal Well No. 1
 Location 1,980' FNL & 1,980' FEL
 Sec. 8 Twp. 11-S Rge. 24-W County Yuma Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plugged and abandoned on 2-24-73 as follows:

Plug No.	Sacks	Type	Plug From	Plug To
1	50	Class "G"	10,650	10,550
2	75		7,100	7,000
3	75		5,000	4,900
4	75		3,300	3,200
5	100		2,889	2,789

Placed 9.2# mud between plugs, installed dry hole marker, cleaned mud pits. Released rig at 9:00 p.m. 2-24-73.

NOTE Surface plug was not set since the Bureau of Reclamation assumed responsibility for the further operation and final plugging of this well.

RECEIVED
 MAR 07 1973
 O & G CONS. COMM.

Orig. & cc: OGCC-State of Arizona
 cc: Drilling Section
 cc: Central File
 2 cc: D. L. Clemmer

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 3-5-73

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

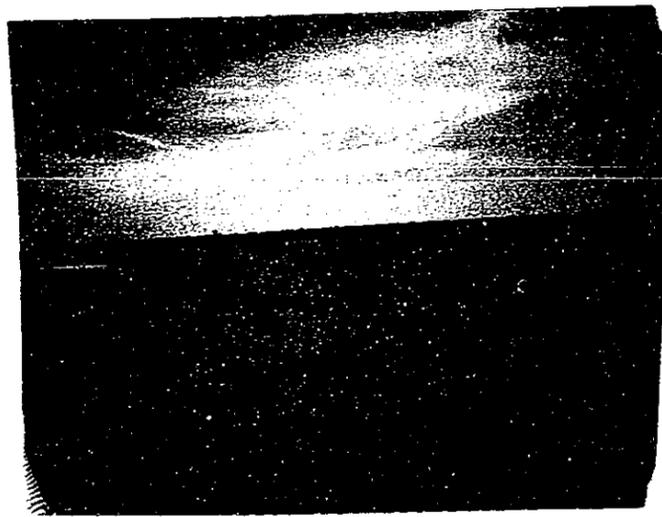
Permit No. 604

March 1, 1974

Memo to File: Exxon Yuma Federal No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Memo from W. E. Allen, Director
Enforcement Section

This location was inspected on February 25, 1974. Everything is in order--dry hole marker, location, pits, etc. The road used to the location and the location itself has been receded.





United States Department of the Interior
BUREAU OF RECLAMATION
LOWER COLORADO REGIONAL OFFICE
P.O. BOX 427
BOULDER CITY, NEVADA 89005

IN REPLY
REFER TO: LC-760
451.2

FEB 28 1973

Mr. Joseph T. Fallini
State Director
Arizona State Office
Bureau of Land Management
3022 Federal Building
Phoenix, Arizona 85025

Dear Mr. Fallini:

We are writing this letter relevant to the relinquishment of an oil and gas exploratory well drilled by Exxon Corporation of Houston, Texas, in the SW1/4NE1/4, Sec. 8, T. 11 S., R. 24 W., G&SRM, Yuma County, Arizona.

The Exxon Corporation agreed to relinquish to the United States its rights to the well. The well was plugged by Exxon as directed by the Geological Survey as follows:

<u>Plug</u>	<u>Depth (feet)</u>
1	10,650
2	7,100
3	5,000
4	3,300
5	2,839

Each plug is 100 feet in length and is centered at the depth given above. The top plug was tested for fluid tightness.

The drilling mud was flushed from 10-3/4-inch OD casing above the top plug. Casing stickup is four feet above ground. A metal plate with a valve attachment was tack welded on top of the casing. The valve attachment is a safety precaution.

RECEIVED

MAR 07 1973

O & G CONS. COMM.

The Bureau of Reclamation has assumed responsibility and jurisdiction over the well. Reclamation will use the well to monitor temperature gradients and also for ground-water observations.

Sincerely,

M. K. FULCHER

ACTING FOR **E. A. Lundberg**
Regional Director

In duplicate

cc:

Mr. Harry Martin, Exxon Corporation, P.O. Box 1600, Midland,
Texas 79701

Mr. D. F. Russell, District Engineer, Geological Survey, Room 309,
Federal Building, 800 Truxton Avenue, Bakersfield, California 93301

RECEIVED
MAY 07 1973
O & G CONS. COMM.



IN REPLY
REFER TO: LC-760
451.2

United States Department of the Interior
BUREAU OF RECLAMATION
LOWER COLORADO REGIONAL OFFICE
P.O. BOX 427
BOULDER CITY, NEVADA 89005

FEB 28 1973

Mr. Harry Martin
Exxon Corporation
P.O. Box 1600
Midland, Texas 79701

Dear Mr. Martin:

The Bureau of Reclamation has advised the Bureau of Land Management in Phoenix, Arizona, of its acceptance of the responsibility and jurisdiction of the test well your company drilled in Section 8, T. 11 S., R. 24 W., G&SRM, Yuma, Arizona.

If the Bureau of Land Management has any further requirements before releasing your company from the responsibility of this well, we shall be pleased to cooperate.

We appreciate Exxon's cooperation in leaving this well in such condition so as to be useful in important ground-water management programs in the Yuma area.

Sincerely,

ACTING FOR E. A. Lundberg
Regional Director

cc:
State Director, Arizona State Office, Bureau of Land Management,
3022 Federal Building, Phoenix, Arizona 85025
Mr. D. F. Russell, District Engineer, Geological Survey, Room 309,
Federal Building, 800 Truxton Avenue, Bakersfield, California 93301

RECEIVED

RECEIVED

MAR 07 1973

O & G CONS. COMM.

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Federal US A-3499

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Yuma-Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Stratigraphic Test Hole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 8, T-11-S, R-24-W

12. COUNTY OR PARISH 13. STATE

Yuma

Arizona

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL GAS WELL OTHER Stratigraphic Test Hole

2. NAME OF OPERATOR
Exxon Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1600, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1,980' FNL & 1,980' FEL

14. PERMIT NO. None-Approved 1-3-73

15. ELEVATIONS (Show whether OF, BT, OR, etc.)
150' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Weekly Progress <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Finished drilling 6-3/4" hole from 10,877' to a total depth of 11,444'. We propose to plug and abandon the well as follows:

Plug No.	Sacks	Type	Plug From	Plug To
1	50	Class "G"	10,650	10,515
2	75		7,100	6,938
3	75		5,000	4,838
4	75		3,300	3,138
5	100		2,889	2,724
6	10		20	0 - This surface

plug may be eliminated if the Bureau of Reclamation agrees to assume liability for the upper portion of the hole. Place 9.2# mud between plugs, install dry hole marker. Verbal approval obtained on 2-22-73.

Orig. & ^{cc} Sec: U.S.G.S., 309 Federal Bldg., 800 Truxton Avenue, Bakersfield, Calif. 93301
cc: Drilling Section
cc: Central File
2cc: D. L. Clemmer

RECEIVED
FEB 26 1973
O & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct
SIGNED D. L. Clemmer TITLE Proration Specialist DATE 2-22-73
(This space for Federal or State office use)
APPROVED BY [Signature] TITLE District Engineer DATE Feb. 26, 1973
CONDITIONS OF APPROVAL, IF ANY:

Orally agreed to January 22, 1973 between Hyland and Russell
cc - Bureau of Reclamation, Yuma, Ariz. *See Instructions on Reverse Side
- Oil & Gas Conservation Commission, Phoenix, Ariz.

GEOLOGICAL SURVEY
RECEIVED
FEB 26 1973

February 22, 1973

Memo to File: Exxon Corporation
Yuma Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Memo from W. E. Allen, Director
Enforcement Section

Bart Highland called this date for verbal permission to plug the above referenced well. Total depth is 11,444. The plugging program is as follows:

50 sx plug from 10,650 to 10,550
75 sx plug from 71,000 to 7,000
75 sx plug from 5,075 to 4,925
72 sx plug from 3,300 to 3,200
100 sx plug from 2,890 to 2,790

The Bureau of Reclamation may decide to accept this hole as a water well. In that event, there will be no top plug and no dry hole marker. If the Bureau of Reclamation does not accept the well, there will be a 20' cement plug at the top of the well with regulation dry hole marker.

WEA/rlb

WPA

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1

Location 1,980' FNL & 1,980' FEL

Sec 8 Twp 11-S Rge 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2-10-73 to
2-16-73 Finished running Seismic Velocity Survey. Drilled 6-3/4" hole from 10,596' to 10,877'.

NOTE: We now plan to drill to approximately 13,000'.

RECEIVED

FEB 20 1973

O & G CONS. COMM.

Orig. & cc: OGCC-State of Arizona
cc: Drilling Section
cc: Central File
2 cc: D. L. Clemmer

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 2-16-73

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25

Permit No. 604

February 16, 1973

Memo to File: Exxon Corporation
Yuma Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Memo from W. E. Allen, Director
Enforcement Section

As of the above date, Exxon Corporation has requested and have been granted verbal permission to extend the proposed total depth on the above referenced well to 13,000'.

WEA/r1b

work

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1

Location 1,980' FNL & 1,980' FEL

Sec. 8 Twp. 11-S Rge. 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	Weekly <input checked="" type="checkbox"/> MONTHLY PROGRESS
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2-6-73 to
2-9-73 Drilled 9-7/8" hole from 9,940' to 10,596'. Ran Induction Electric Survey, Gamma Ray Sonic, Gamma Ray Neutron Density and Dipmeter. Now running Seismic Velocity Survey.

Orig. & cc: OGCC-State of Arizona
cc: Drilling Section
cc: Central File
2 cc: D. L. Clemmer

RECEIVED

FEB 13 1973

O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer, L. Clemmer Title Proration Specialist Date 2-9-73

D. L. Clemmer

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 28

Permit No. 604

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1

Location 1,980' FNL & 1,980' FEL

Sec 8 Twp 11-S Rge 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2-3-73 to
2-6-73 Drilled 9-7/8" hole from 8,691' to 9,940'.

NOTE: We now plan to drill to approximately 10,800'.

RECEIVED

FEB 08 1973

O & G CONS. COMM.

Orig. & cc: OGCC-State of Arizona
cc: Drilling Section
cc: Central File
2 cc: D. L. Clemmer

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 2-6-73

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
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Permit No. 604

WPA

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1
 Location 1,980' FNL & 1,980' FEL
 Sec. 8 Twp. 11-S Rge. 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-27-73 to
2-2-73 Drilled 9-7/8" hole from 4,720' to 8,691'.

NOTE: It is now proposed to drill to 10,000'.

Orig. & cc: OGCC-State of Arizona
cc: Drilling Section
cc: Central File
2 cc: D. L. Clemmer

RECEIVED
FEB 05 1973
O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.
Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 2-2-73

Permit No. 604

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WPH

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1
 Location 1,980' FNL & 1,980' FEL
 Sec. 8 Twp. 11-S Rge. 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-20-73 to
1-26-73

Rigged up and ran 76 jts. of 10-3/4" J-55 ST&C Casing (59 jts. 40.5# and 17 jts. of 45.5#), set at 2,839' w/850 sx Class "C" cement w/8% gel and 2% CACL, followed by 250 sx Class "C" cement w/2% CACL, cement failed to circulate. Ran 1" tubing thru casing annulus and cemented w/385 sx Class "C" cement, circ. cement to surface, 10 sx of cement fell from surface to 18' below surface. Job complete at 2:45 p.m. 1-21-73. Nippled up B.O.P., tested hydrill and rams to 300#, test O.K., retested to 3000#, test O.K. WOC 12 hours. Now drilling 9-7/8" hole at 4,720'.

Orig. & cc: OGCC-State of Arizona
 cc: Drilling Section
 cc: Central File
 2 cc: D. L. Clemmer

RECEIVED
 JAN 29 1973
 O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer, L. Clemmer Title Proration Specialist Date 1-26-73

Permit No. 604

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 OIL & GAS CONSERVATION COMMISSION
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WV

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1
 Location 1,980' FNL & 1,980' FEL
 Sec. 8 Twp. 11-S Rge. 24-W County Yuma Arizona

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-16-73 to
1-19-73

Drilled 13-3/4" hole to 230', opened 13-3/4" hole to 20", ran 6 joints of 16" 65# H-40 casing, set at 228' w/265 sx Class "A" Cement w/2% CACL; circ. 60 sx to surface, C. I. P. at 11:00 p.m. 1-15-73. W.O.C. 12 hours. Nipped up 16" rotating head, drilled cement from 180' to 228'. Drilled to 263' and stuck pipe, worked pipe free. Drilled 13-3/4" hole to 3,105', now circulating while waiting on Schlumberger to arrive and run logs.

RECEIVED

Orig. & cc: OGCC-State of Arizona
cc: Drilling Section
cc: Central File
2 cc: D. L. Clemmer

JAN 24 1973
O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 1-19-73

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 OIL & GAS CONSERVATION COMMISSION
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Permit No. 604

SUNDRY NOTICES AND REPORTS ON WELLS

WPA

1. Name of Operator Exxon Corporation
 2. OIL WELL GAS WELL OTHER
 3. Well Name Yuma-Federal Well No. 1 (Specify) Stratigraphic Test Hole
 Location 1,980' FNL & 1,980' FEL
 Sec. 8 Twp. 11-S Rgn. 24-W County Yuma Arizona

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	SUBSEQUENT REPORT OF:	
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	WEEKLY PROGRESS <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
(OTHER) <input type="checkbox"/>		(OTHER) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-15-73 MIRU, spudded 13-3/4" hole @ 3:00 a.m. 1-15-73. We plan to drill 13-3/4" hole to approximately 200', ream the hole to 20", and set surface casing.

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Orig. & cc: OGCC-State of Arizona
 cc: Drilling Section
 cc: Central File
 2 cc: D. L. Clemmer

RECEIVED
 JAN 18 1973
 O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.
 Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 1-15-73

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STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
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WHA

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1
 Location 1,980' FNL & 1,980' FEL
 Sec. 8 Twp. 11-S Rge. 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	Weekly MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
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(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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1-15-73 MIRU, spudded 13-3/4" hole @ 3:00 a.m. 1-15-73. We plan to drill 13-3/4" hole to approximately 200', ream the hole to 20", and set surface casing.

RECEIVED

JAN 18 1973

O & G CONS. COMM.

Orig. & cc: OGCC-State of Arizona
cc: Drilling Section
cc: Central File
2 cc: D. L. Clemmer

I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 1-15-73

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
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WV

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Exxon Corporation

2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test Hole

3. Well Name Yuma-Federal Well No. 1

Location 1,980' FNL & 1,980' FEL

Sec 8 Twp 11-S Rge 24-W County Yuma Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Federal Lease No. US A3499

5. Field or Pool Name Wildcat- Core Test

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

1-12-73 Moving in Loffland Drilling Company Rig #5, estimated spudding date is 1-14-73 or 1-15-73.

Mr. Bart Highland, Exxon's Field Superintendent, will be supervising the drilling of this well and may be reached at the Americana Motel, San Luis, Arizona, phone 602-627-2622.

RECEIVED

JAN 10 1973

O & G CONS. COMM.

Orig. & cc: OGCC-State of Arizona
 cc: Drilling Section
 cc: Central File
 2 cc: D. L. Clemmer

8. I hereby certify that the foregoing is true and correct.

Signed D. L. Clemmer D. L. Clemmer Title Proration Specialist Date 1-12-73

Permit No. 604

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
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Form 9-281 C
(May 1963)

SUBMIT IN THE VICINITY OF
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK
1b. TYPE OF WELL
OIL WELL GAS WELL OTHER Stratigraphic Test Hole
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Humble Oil & Refining Company

3. ADDRESS OF OPERATOR
P. O. Box 1600, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1,980' FNL & 1,980' FEL

At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 2.4 miles East of San Luis

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
660'
660'

16. NO. OF ACRES IN LEASE
1,090.25

17. NO. OF ACRES ASSIGNED TO THIS WELL.
80

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
8,000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
To be filed later

22. APPROX. DATE WORK WILL START*
As soon as approved

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	200'	250 sacks **
13-3/4"	10-3/4"	40.5#	3,000'	1,070 sacks **
9-7/8"	7-5/8"	26.4#	*	

* 7-5/8" will be set if required by hole conditions.
** Circulate to surface.

HOWCO method of cementing to be used.
See "Mud Program", "Development Plan for Surface Use", "Blowout Preventer Equipment" and "Rig Layout" attached.

Orig. & 5cc: U. S. G. S.
cc: Central File
cc: Drilling Section
cc: D. L. Clemmer

The Operator must contact the District Manager of the Bureau of Land Management for advice prior to building roads and moving on location. The District Manager's address is 2450 Fourth Ave., Yuma, Arizona.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED D. L. Clemmer TITLE Proration Specialist DATE 12-14-72
D. L. Clemmer
(This space for Federal or State office use)

APPROVED BY D. F. Russell TITLE District Engineer DATE Jan. 9, 1973
CONDITIONS OF APPROVAL, IF ANY:

- cc - (2) BLM, Phoenix
- BLM, Yuma
- BME, Los Angeles
- Bureau of Reclamation, Yuma
- Oil & Gas Conservation Commission, Phoenix
- Cecil Ellis, Humble Oil

SEE ATTACHED CONDITIONS AND REQUIREMENTS
*See Instructions On Reverse Side

604

5. LEASE DESIGNATION AND SERIAL NO.
Federal US A3499

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Yuma-Federal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Stratigraphic Test Hole

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 8, T-11-S, R-24-W

12. COUNTY OR PARISH
Yuma

13. STATE
Arizona

RECEIVED
JAN 08 1973
O & G COMM. DIVISION

ENVIRONMENTAL IMPACT ANALYSIS

(8000' test)
Humble Oil Co.
Yuma-Federal No. 1
Ariz 3499

Proposed Action

Request dated Dec. 14, 1972 to drill a 8000 ft.
"exploratory" well in the SW & NE 1/4 sec. 8 T. 11S, R. 24W.
(S B 5 M, Yuma County, Arizona)

Location and Natural Setting

Surface Owner: U. S. Govt. - Subject to Bureau of Reclamation
Stipulations

Topography: Flat Flood Plain

Surface Soil: Sand w/scattered pebbles

Vegetation: Scattered shrubs - greasewood (*Larrea divaricata*) and
white bursage (*Franseria dumosa*) - plus 1" desert "grass"
(annual species of some forb)

Effects on Environment by Proposed Action

Proposed action will require construction of 0.4 miles of new road
and use of one acre for drilling area. If production is
encountered, additional land surface may be required.

Alternatives to the Proposed Action

None suggested, as proposed operations will have very little impact on
the environment. No major impact statement necessary.

Adverse Environmental Effects Which Cannot be Avoided

Surface taken up by drillsite and road will be removed from the habitat
until the well is abandoned. However, this is insignificant and will not
affect the environment appreciably.

Determination

This requested action does not constitute a major Federal action
significantly affecting the environment in the sense of NEPA, Section
102(2) (c).

Date Proposed Site Inspected: Dec. 20, 1972

By J. P. Wagner, USGS and
Carl Kipping, Douglas Whitenton, BLM

J. P. Wagner
District Engineer
U. S. Geological Survey

DEVELOPMENT PLAN FOR SURFACE USE

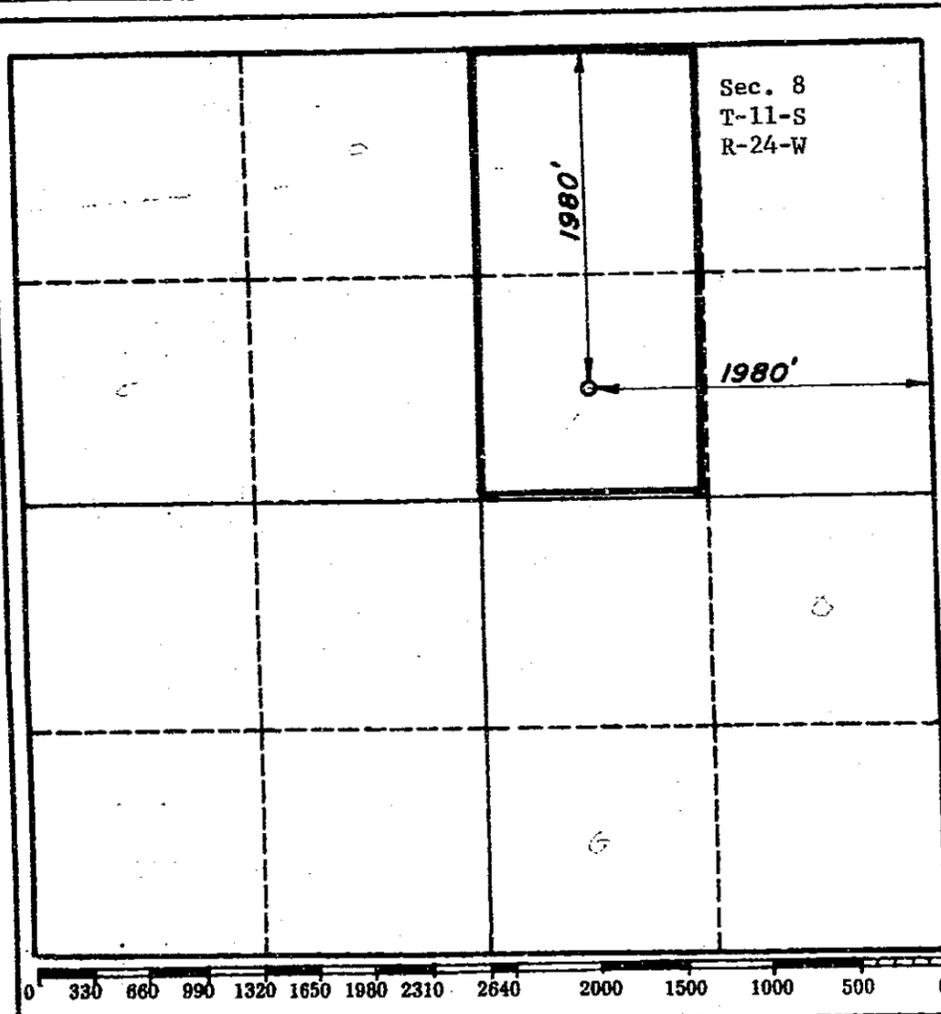
Humble Oil
Yuma - Federal No. 1

1. Existing roads. State Highway 95 from Yuma leads 25 miles SW to San Luis. Just north of town a hardpan street (23rd) heads due east to town dump. At distance of 2.5 miles east is flag for access road (south).
2. Planned access road. A dirt road will be graded 0.38 miles south to the well location from the existing hardpan road to the dump. The BLM requests that a slight jog be made in this - they dislike straight line roads.
3. Location of well. 1980'S and 1980'W of NE corner Sec. 8, T. 11 S., R. 24 W.
4. Lateral road to well location. None
5. Location of tank batteries and flowlines. None needed unless discovery. There is no drywash or any other topographic feature to limit the location of any facility.
6. Location and types water supply. Water will be purchased from Fortuna Water Co. who has a well $1\frac{1}{2}$ miles west. Surface irrigation pipe (4") will be laid.
7. Methods of handling waste disposal. Drill cuttings and excess fluids will be stored in 100' x 150' sump for later burial. Chemical toilets provide for sanitation. Trash will be collected in bins for burial/trucking.
8. Location of Camps. None
9. Location of airstrips. None
10. Location layout. See Humble attachment
Mudpits to be N of rig location
11. Plans for restoration of surface. Sumps and pits will be back-filled and leveled with trash to be buried in same. Short access road need not be ripped or reseeded.
12. Any other information which may be considered essential to his assessment of the impact on the environment. None

(Note to Operator): This single sheet is only a guide for the information required. You will probably need several pages of data for your submittal.

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description



CERTIFICATION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

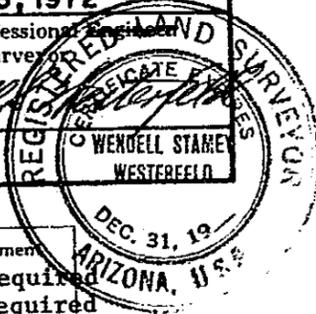
D. L. Clemmer
Name
D. L. Clemmer
Position
Proration Specialist
Company
Humble Oil & Refg. Co.
Date
December 14, 1972

I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Dec. 13, 1972

Registered Professional Engineer and/or Land Surveyor
Wendell Stamer

Certificate No. _____



PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
16"	65#	H-40 ST&C	0'	200'	Circ. to surface	As required
10-3/4"	40.5#	K-55 ST&C	0'	2,700'	Circ. to surface	As required
7-5/8"	26.4#	K-55 ST&C	0'	*		

*7-5/8" casing will be set if required by hole conditions.



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: EXXON CORPORATION S. A.
(OPERATOR)

to drill a well to be known as
YUMA-FEDERAL WELL NO. 1

(WELL NAME)

located 1980 FNL - 1980 FEL

Section 8 Township 11S Range 24W, Yuma County, Arizona.

The 80 acres of W/2 of NE/4 73 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

issued this 4th day of January, 1973

OIL AND GAS CONSERVATION COMMISSION

PRIOR TO BEING ALLOWED TO PRODUCE THIS WELL
YOU MUST BE IN FULL COMPLIANCE WITH RULE
105, SECTION A THRU G (SPACING), WITH RESPECT
TO THE PRODUCT TO BE PRODUCED.

By W. B. [Signature]
EXECUTIVE SECRETARY

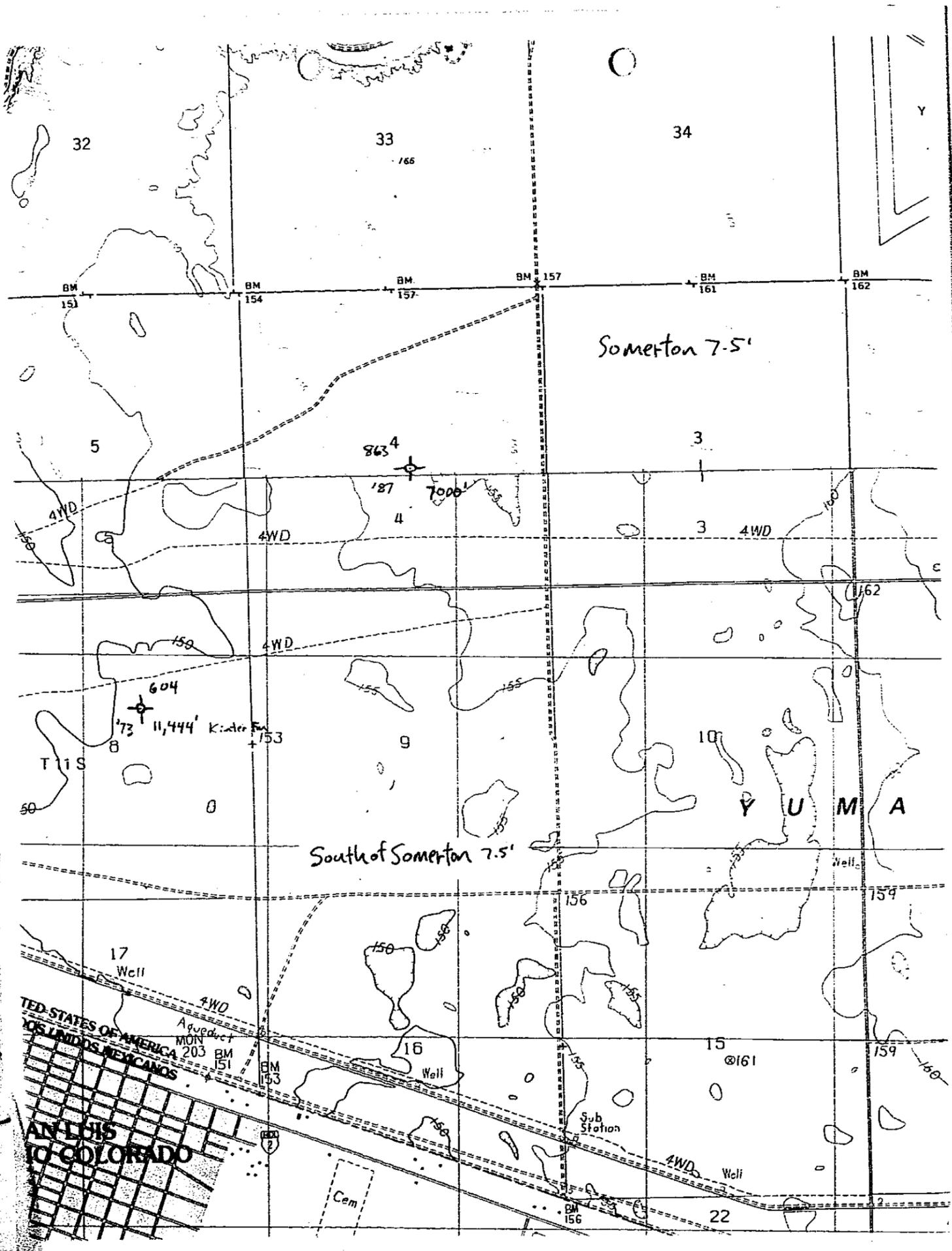
PERMIT N^o 604

RECEIPT NO. 2942

API NO. 02-027-20006
SAMPLES ARE REQUIRED

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27



GEOCHEMICAL SERVICE REPORT

EXXON YUMA FEDERAL

Permit No. 604



Prepared
for
INEXCO OIL COMPANY

CONFIDENTIAL
FEBRUARY, 1984

1143 - C BRITTMORE ROAD, HOUSTON, TEXAS 77043

COMPANY PROPRIETARY

HYDROCARBON SOURCE ROCK EVALUATION

INEXCO OIL COMPANY

EXXON YUMA FEDERAL

SUMMARY

Eight dry cuttings samples from 410 feet to 6300 feet from the Exxon Yuma-Federal Well were submitted for geochemical analyses. Overall low concentrations of organic matter were recorded in the sediment giving the samples poor hydrocarbon generative capabilities.

The samples have undergone a moderate geothermal history and can be rated between moderately mature to possibly mature. At this state of thermal maturity most of the sediments are into the catagenic phase of hydrocarbon generation.

Pyrolysis results indicate the sediments have an overall very poor inherent and realized source potential.

H.B. Hull
Ben Hull
GEOCHEM LABORATORIES, INC.

INTRODUCTION

This report presents results and interpretations of geochemical analyses performed on the Exxon Yuma-Federal Well in Yuma County, Arizona.

The principal objective of this study was to determine the present hydrocarbon source potential of sediment from 4100 feet to 6800 feet.

ANALYTICAL PROGRAM

The samples of GeoChem Job Number D1118 were submitted to the following sequence of examinations and analyses. This sequence followed the initial recommended geochemical program or its modifications by Inexco Oil Company.

A. Organic Content Screening

- Total Organic Carbon (TOC) Determination (8 samples).....Table I; Figure 1

B. Organic Matter Characterization

- Visual Kerogen Characterization
- Visual Kerogen Thermal Alteration Indexing.....Figure 2

C. Source Rock Hydrocarbon Analyses

- Rock-Eval Pyrolysis (2 samples).....Table II; Figure 1

The analytical and interpretive work presented in this report was authorized through the Inexco Oil Company office of Joe Kulik, Denver, Colorado. If there are any questions concerning this report, the analytical data presented in it, or their interpretations, please contact Ben Hull at GeoChem Laboratories, Inc. (713) 467-7011.

For general information purposes, brief descriptions of the various analyses performed in studies such as the Exxon Yuma Federal are presented in the attached Appendix A. This information can serve as a ready reference while considering our discussion of results and interpretations.

RESULTS AND INTERPRETATIONS

A. ORGANIC CONTENT SCREENING

- Total Organic Carbon (TOC) Determination (Table I)
(see also Figure 1)

Clastic sediments within the sample interval 4100 feet to 6800 feet contain low amounts of organic carbon (Figure 2). The average total organic carbon content is .33%. Since these sediments are predominantly shales these units are considered to have had a poor inherent potential for hydrocarbon generation when deposited.

B. ORGANIC MATTER CHARACTERIZATION AND MATURATION

- Visual Kerogen Characterization

The sediment analyzed by Rosemary Jacobson were divided into six components. Component 5 was believed to be the indigenous material comprising 65-80% of the kerogen populations. This assemblage is believed to be nonmarine and includes pollen and rare spores of Tertiary age. Using Jacobson's results we interpret the kerogen from samples between 4100 feet to 6800 feet to be predominantly herbaceous and woody material. The samples therefore probably have an oil and gas prone character.

- Visual Kerogen Maturation Indexing (TAI)
(Figure 2)

Kerogen Component 2 and Component 5 identified by Jacobson should be considered when interpreting the thermal maturity of the sediment. Component 5 is believed by Jacobson to consist of the indigenous population of Tertiary age. TAI values range from slightly less than 2 (GeoChem numerical scale 2.1) to slightly less than 2+ (GeoChem numerical scale 2.5). These values fall predominantly in the moderately mature range and indicate an early catagenic phase of hydrocarbon generation (Figure 2).

Component 2 is an assemblage of mainly nonmarine palynomorphs of late Cretaceous age. This material may have been reworked during deposition. Thermal Alteration Indices (TAI) are approximately 2+ (GeoChem numerical 2.6). These values fall within the moderately mature to mature range and indicate the samples have passed fully into the catagenic phase.

C. SOURCE ROCK - HYDROCARBON ANALYSES

- Rock-Eval Pyrolysis (Table II)
(see also Figure 1)

Pyrolysis analysis of two samples (GeoChem sample numbers D1118-004, and D1118-006) indicate these sediments have a very poor source potential character. Very poor amounts of free (generated) hydrocarbons are indicated by an average S₁ content of 0.07 mg/g. Very poor amounts of hydrocarbon generating potential S₂ were also detected.

CONCLUSION

Low concentrations of organic matter in the clastic sediments from 4100 feet to 6800 feet in the Exxon Yuma-Federal Well are interpreted to mean that these sediments had an overall poor hydrocarbon source potential when deposited. Kerogen from these sediments is probably oil and gas prone.

Sediment from 4100 feet to 6800 feet have undergone a moderate geothermal history. Tertiary palynomorphs fall predominantly in the moderately mature range while Cretaceous palynomorphs have thermal alteration indices in the moderately mature to mature range.

Overall maturation levels indicate the samples have passed into the catagenic phase of hydrocarbon generation. If the Tertiary palynomorphs are indigenous the sediments are into the early catagenic phase of hydrocarbon generation. In contrast if the Cretaceous assemblages are indigenous the samples have passed fully into the catagenic phase.

Pyrolysis data from organic matter indicate the clastic sediments have an overall very poor inherent and realized source potential.

TABLE I

RESULTS OF TOTAL ORGANIC CARBON

GEOCHEM SAMPLE NUMBER	CLIENT IDENTIFICATION NUMBER	TOTAL ORGANIC CARBON (% of Rock)
D1118-001	Depth 4100'-4200'	0.27
D1118-002	Depth 4500'-4600'	0.25
D1118-003	Depth 5000'-5100'	0.36
D1118-004	Depth 5200'-5300'	0.40
D1118-005	Depth 5500'-5600'	0.36
D1118-006	Depth 6000'-6100'	0.45
D1118-007	Depth 6500'-6600'	0.34/0.35
D1118-008	Depth 6700'-6800'	0.24

- Total organic carbon, wt. %
- Free hydrocarbons, mg HC/g of rock
- Residual hydrocarbon potential
- S1
- S2
- S3

- CO₂ produced from kerogen pyrolysis (mg CO₂/g of rock)
- mg HC/g organic carbon
- mg CO₂/g organic carbon
- S1/S1 + S2
- Temperature Index, degrees C

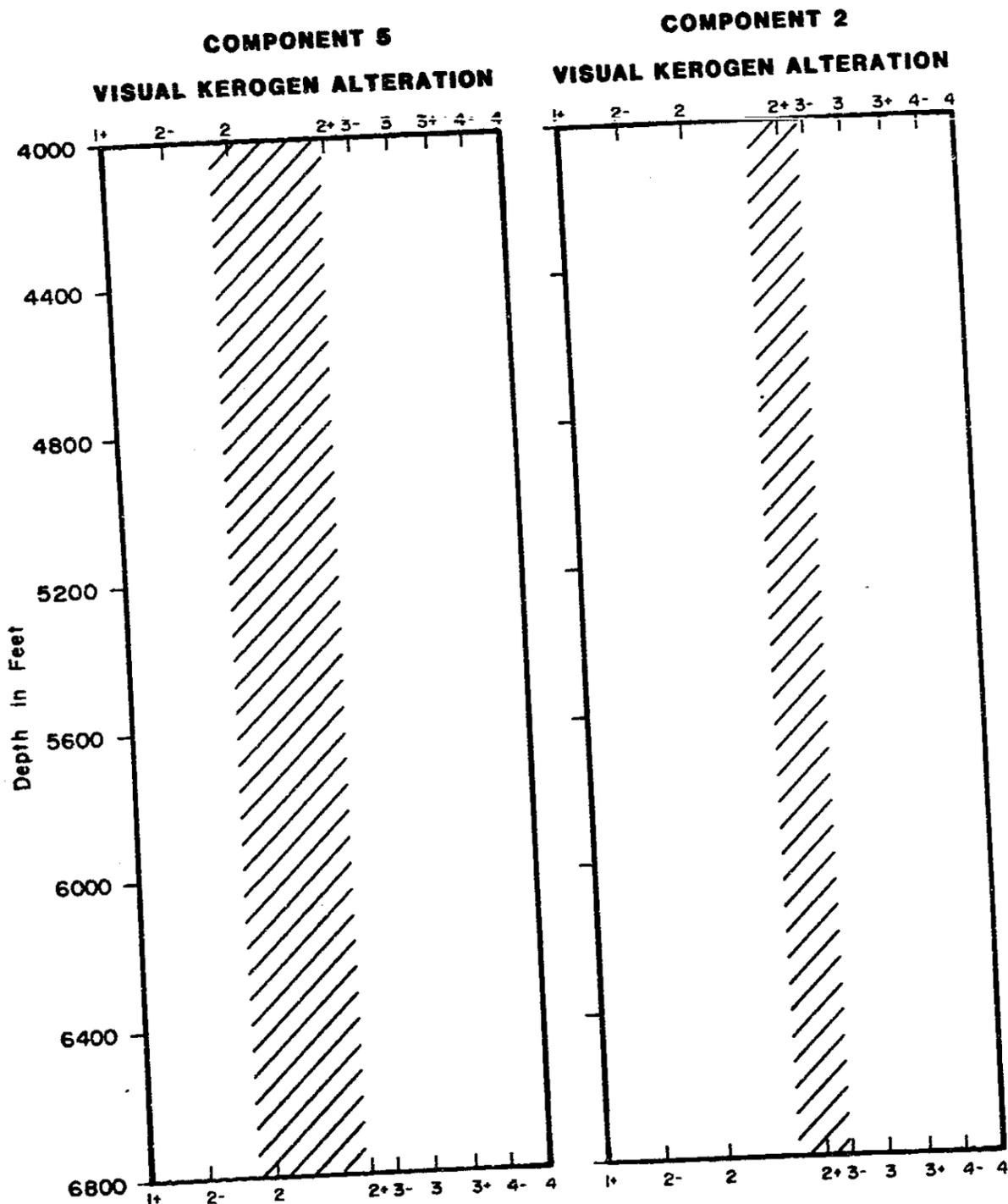
Table II
RESULTS OF ROCK-EVAL PYROLYSIS

GeoChem Sample No.	Depth Interval (ft.)	Tmax (C)	S1 (mg/g)	S2 (mg/g)	S3 (mg/g)	PI	S2/S3	T.O.C. (wt. %)	Hydrogen Index	Oxygen Index
D1118-004	Depth 5200' - 5300'		0.08	0.14	0.39	0.36	0.35	0.40	34.8	98.7
D1118-006	Depth 6000' - 6100'		0.06	0.14	0.36	0.29	0.38	0.45	30.5	80.8

FIGURE 2

INEXCO OIL COMPANY
EXXON YUMA FEDERAL

THERMAL MATURITY



APPENDIX

Brief Description of Organic Geochemical Analyses Carried Out by GeoChem

C₁-C₇ Hydrocarbon

The C₁-C₇ hydrocarbon content and composition of sediments reflects source type, source quality and thermal maturity.

The C₁-C₇ hydrocarbon content of well cuttings is determined by analyzing both a sample of the cuttings and the air space at the top of the can. The results of the two analyses are summed to give an inventory of the C₁-C₇ hydrocarbon content of the well cuttings prior to any losses from the cuttings during the lapsed time period between collection at the wellsite and laboratory analysis.

The air space C₁-C₇ hydrocarbon analysis involves taking a measured volume of the air space gas out of the can with a syringe and injecting same into a gas chromatograph. GeoChem uses a Varian Aerograph Model 1400 instrument equipped with a Porapac Q column. The gas sample is taken through the column by a carrier gas and before reaching the detector is separated into its various C₁ (methane), C₂ (ethane), C₃ (propane), iC₄ (isobutane), nC₄ (normal butane), and C₅, C₆, C₇ hydrocarbon components.

This particular analysis gives a complete separation of the C₁-C₄ gas-range hydrocarbons and a partial separation of the C₅-C₇ gasoline-range hydrocarbons. (A detailed C₄-C₇ analysis, to be discussed later, involving a capillary column, effects a complete separation of this molecular range into its several individual molecular species.)

The electrical response of the various hydrocarbons as they reach the detector is recorded on a paper strip chart as a peak. This response is simultaneously fed to an integrator which computes the area of each peak. The concentration of C₁-C₇ hydrocarbons in the air space, expressed as volumes of gas per million volumes of cuttings, is determined by a calculation involving the volume of cuttings, volume of air space in the can, volume of sample injected, volume of standard gas sample used in the calibration, calibration factor for C₁, C₂, C₃, etc. determined by gc analysis of a standard gas sample, and the gc peak response.

The C₁-C₇ hydrocarbon content of the cuttings is determined by degasification of a measured volume of cuttings (in a medium of a measured volume of water) in a closed blender, sampling of the air space at the top of the blender, and injection of a measured volume of gas into the gas chromatograph.

The C₁-C₇ hydrocarbon data from the air space and cuttings gas analyses are summed to give a "restored" C₁-C₇ hydrocarbon content of the cuttings.

Sample Washing and Hand-Picking of Uncaved Lithology Samples

The cuttings samples are washed to remove all drilling mud from the cuttings. Care is taken in the washing procedure not to remove any soft clays, claystones, etc. and any loose fine sand and silt. The washed cuttings are usually kept under water cover until picked, to prevent loss of any gasoline-range hydrocarbons. Using the C₁-C₇ hydrocarbon data profile and the electrical well log supplied to us and our visual examination of the cuttings material under the binocular microscope, we carefully hand-pick and describe a suite of uncaved lithologies representative of the various stratigraphic zones penetrated by the well. The lithological data is used to compile a gross litho percentage log which is shown on all Figures. The 2-4 gram picked lithology samples are stored under water in small glass vials in those instances where we wish to run detailed C₄-C₇ hydrocarbon analyses. This sample set is used not only for the C₄-C₇ hydrocarbon analysis, but also for the visual kerogen and total organic carbon analyses. All remaining cuttings material is dried and packaged in labelled plastic bags for possible C₁₅₊ soxhlet extraction and/or eventual return to the client. Sample material from this study will be retained at GeoChem until advised of disposition.

Detailed C₄-C₇ Hydrocarbon

The C₄-C₇ gasoline-range hydrocarbon content of sediments reflects source quality, thermal maturation and organic facies. Compositional data can be used in crude oil-parent rock correlation work.

The C₄-C₇ hydrocarbon content and detailed molecular composition of hydrocarbon, in hand-picked lithologies, is determined by a gc analysis of the light hydrocarbon extracted from 1-2 gram cuttings macerated in a microblender. A measured volume of sample is placed in a sealed microblender along with a measured volume of hot water. The rock sample is pulverized by the blades of the blender. A sample of the liberated light hydrocarbons which collect in the air space at the top of the blender is injected into our Varian Aerograph 1400 gc unit which is equipped with a capillary column. Data recording, computations, etc. are comparable to those used for the C₁-C₇ analysis discussed previously in this report. Hydrocarbon concentration is expressed as volume gas per million volumes of cuttings.

Organic Carbon

The total organic carbon content of a rock is a measure of its total organic richness. This data is used, in conjunction with visual kerogen and C₁-C₄, C₄-C₇ and C₁₅₊ hydrocarbon content of a rock, to indicate the hydrocarbon source quality of rocks.

The procedure for determining the total organic carbon content of a rock involves drying the sample, grinding to a powder, weighing out 0.2729 gram sample into a crucible, acidizing with hot and cold hydrochloric acid to remove calcium and magnesium carbonate, and carbon analysis by combustion in a Leco carbon analyzer.

We run several blank crucibles, standards (iron rings of known carbon content) and duplicate rock samples in this analysis at no additional charge to the client for purposes of data quality control.

C₁₅₊ Soxhlet Extraction, Deasphalting and Chromatographic Separation

The amount and composition of the organic matter which can be solvent-extracted from a rock reflects source quality and source type. C¹³/C¹² carbon isotopic, high mass spectrometric and gc analyses of the paraffin-naphthene and aromatic hydrocarbon fractions of the soluble extract gives data which is used in crude oil-parent rock correlations. This analysis involves grinding of a dry rock sample to a powder and removal of the soluble organic matter by soxhlet extraction using a co-distilled toluene-methanol azeotrope solvent. Where the amount of available sample material permits, we like to use at least 100 grams of rock for this analysis.

The extracted bitumen is separated into an asphaltene (ASPH) and a pentane soluble fraction by normal pentane precipitation. The pentane soluble components are separated into a C₁₅₊ paraffin-naphthene (P-N) hydrocarbon, C₁₅₊ aromatic hydrocarbon (AROM) and C₁₅₊ nitrogen-sulfur-oxygen containing fraction (NSO) by adsorption chromatography on a silica gel-alumina column using pentane, toluene and toluene-methanol azeotrope eluents.

GC Analysis of C₁₅₊ Paraffin-Naphthene (P-N) Hydrocarbons

The content and molecular composition of the heavy C₁₅₊ paraffin-naphthene (P-N) hydrocarbons of rocks, as determined by gc analysis, reflects source quality, source type and degree of thermal maturation.

In this analysis, we subject a very small fraction of the total amount of the P-N fraction extracted from a rock sample to gc analysis. The gas chromatograph is a Varian Aerograph Model 1400 equipped with a solid rod injection system and a eutectic column.

The calculated C. P. I. (carbon preference index) values for the normal paraffin data is defined as the mean of two ratios which are determined by dividing the sum of concentrations of odd-carbon numbered n-paraffins by the sum of even-carbon numbered n-paraffins. The C. P. Indices A and B were obtained by the formulas:

$$C. P. Index A = \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{22}+C_{24}+C_{26}+C_{28}} + \frac{C_{21}+C_{23}+C_{25}+C_{27}}{C_{20}+C_{22}+C_{24}+C_{26}}$$

$$C. P. Index B = \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{26}+C_{28}+C_{30}+C_{32}} + \frac{C_{25}+C_{27}+C_{29}+C_{31}}{C_{24}+C_{26}+C_{28}+C_{30}}$$

Visual Kerogen

A visual study of kerogen, the insoluble organic matter in rocks, can indicate the relative abundance, size, and state of preservation of the various recognizable kerogen types and thereby indicate the hydrocarbon source character of a rock. The color of the kerogen can be used to indicate the state of thermal maturity of the sediments (i.e. their time-temperature history). Thermal maturation plays an important role in the generation of hydrocarbons from organic matter, and also affects the composition of reservoir hydrocarbons.

Our procedure for visual kerogen slide preparation involves isolation of the organic matter of a rock by removal of the rock material with hydrochloric and hydrofluoric acid treatment and heavy liquid separation. This procedure is comparable to that used by the palynologist except it does not include an oxidation stage. (The oxidation treatment is deleted from our procedure because it removes a great deal of kerogen and bleaches any remaining kerogen to an extent whereby it is useless for our kerogen color observations.) The kerogen residue is mounted on a glass slide and is examined visually under a high power microscope.

Vitrinite Reflectance

Measurement of the reflectivity of vitrinite particles (R₀) present in the kerogen isolated from sedimentary rocks provides a method of determining the state of maturation, and the diagenetic (time-temperature) history of the organic matter present in the sediments.

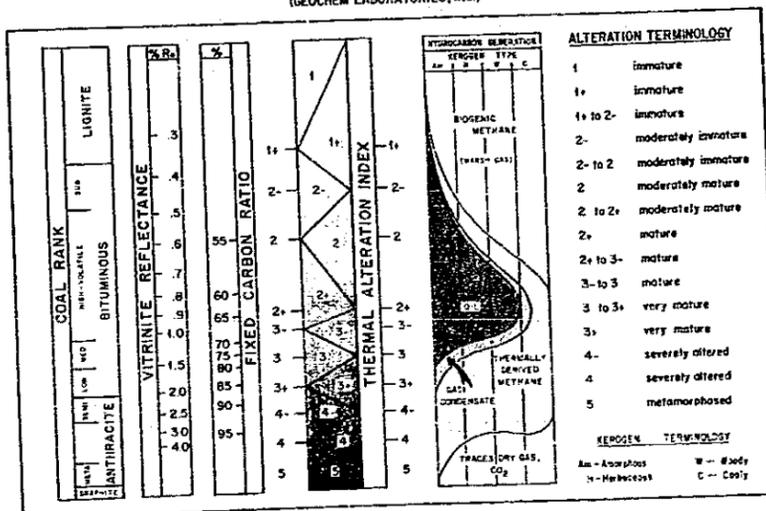
The kerogen, obtained from a 25 gram aliquot of crushed rock by the acid procedure previously discussed, is dried and embedded in a Bioplastic plug. The surface of the plug is polished using 0.05 micron alumina and the reflectivity determined under oil using a Ziess high resolution microscope. A minimum of 40 values are required to adequately determine the Maturation Rank.

Fluorescence Spectrophotometric Analysis

Fluorescence spectrophotometry can be used to characterize and fingerprint crude oils, establish crude oil-source rock relationships, and to measure the hydrocarbon source potential of fine-grained sediments.

A one (1) microliter aliquot of either (i) a crude oil or (ii) the solvent extractable rock bitumen, is passed through an alumina silica gel micro column and the C₁₀₊ aromatic hydrocarbons isolated. The aromatic hydrocarbon is diluted and the emission and excitation spectra determined at 240 nm and 420 nm using a Perkin-Elmer Model 512 Double Beam Fluorescence Spectrophotometer.

GEOTHERMAL DIAGENETIC CRITERIA
(GEOCHEM LABORATORIES, INC.)



Fireman's Fund
Insurance Company

FIREMAN'S FUND INSURANCE COMPANY
THE AMERICAN INSURANCE COMPANY
NATIONAL SURETY CORPORATION
ASSOCIATED INDEMNITY CORPORATION
AMERICAN AUTOMOBILE INSURANCE COMPANY



CERTIFIED MAIL
P 402 507 102

NOTICE OF CANCELLATION OR TERMINATION

BOND NO. SLR 510 1158

TO: State of Arizona
Oil & Gas Conservation Commission
416 W. Congress, Suite 100
Tucson AZ 85701

DATE: January 11, 2002

The American Insurance Company, Surety upon a certain Blanket Oil & Gas Drilling
(Surety) (Type of Bond)
Bond No. SLR 510 1158, dated on or about March 17th, 1967

in your favor, in the amount of -----Twenty Five Thousand Dollars and no/100-----
Dollars (\$ 25,000.00-----).

covering Exxon Corporation
(Principal)

hereby notifies you that it has elected to cancel/terminate said bond as to future liability.

Please send a release so that we may close our file.

= faxed copy of March 16, 1998 letter

cancellation/termination to become effective thirty (30) days from receipt of written notice.

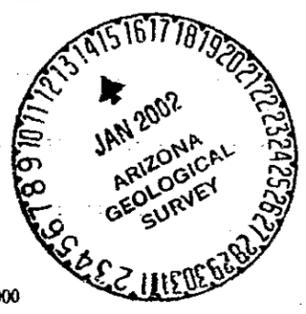
This notice is given to you in accordance with the cancellation/termination provision in said bond contained.

The American Insurance Company
Surety

Additional addressees:
Exxon Mobil Risk Services
Irving TX
Exxon Corporation

By Cindy Ash
Cindy Ash Attorney-in-Fact

PLEASE REPLY TO:
P.O. Box 2519
Dallas, TX 75221
Phone 214.220.4000



Allianz Group

ARIZONA GEOLOGICAL SURVEY 416 W. CONGRESS, SUITE 100, TUCSON, AZ 85701

FAX

Date: 1-11-02

Number of pages including cover sheet: 6

To: Pete Myers

Exxon Mobil

Phone: 972-444-4632

Fax phone: 972-444-4646

CC:

From: Steve Rauzi

Arizona Geological Survey

416 W. Congress, Suite 100

Tucson, AZ 85701

Phone: (520) 770-3500

Fax phone: (520) 770-3505

REMARKS: Urgent For your review Reply ASAP Please comment

- ① Bond 510 1158 - Humble O&R Co.
- ② Bond Rider - name change fr. Humble to Exxon
- ③ Rauzi letter of 8-28-97
- ④ Hamilton letter of 3-9-98
- ⑤ Rauzi letter of 3-16-98 = release of Bond 5101158



Jane Dee Hull
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

March 16, 1998

Mr. Bruce Nielsen
Exxon Exploration Company
233 Benmar, Room 458
Houston, Texas 77060

Re: Exxon (Humble Oil & Refining Company)
\$25,000 Oil Drilling Blanket Bond #5-10-11-58
The American Insurance Company

Dr. Mr. Nielsen:

Records of the Arizona Oil and Gas Conservation Commission (AOGCC) show that neither Exxon or any of its predecessors-in-interest have any outstanding drilling or plugging obligations in Arizona. As a result, this letter serves as written permission of the AOGCC to cancel the referenced bond.

Please advise if we may be of further assistance.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

EXXON CORPORATION

5959 LAS COLINAS BOULEVARD, IRVING, TEXAS 75039-2298

EDGAR A. ROBINSON
Vice-President and Treasurer
FRANK A. RISCH
Assistant Treasurer

March 9, 1998

Mr. Steven L. Rauzi
Oil & Gas Programs Administrator
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701

Re: Exxon (Humble Oil & Refining company)
\$25,000 Oil Drilling Blanket Bond #5-10-11-58
The American Insurance Company

Dr. Mr. Rauzi

In response to your letter, dated August 28, 1997, to M. G. Fitzgerald, the purpose of this letter is to request that Exxon Corporation be released from liability under the captioned bond (a copy of which is attached).

Please execute the release and send evidence of the same to the attention of Mr. Bruce Nielsen, Exxon Exploration Company, 233 Benmar - Rm. 458, Houston, Texas 77060.

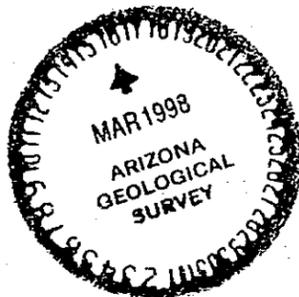
Thank you for your assistance in this matter.

Very truly yours,



R. M. Hamilton
Assistant Treasurer

RMH
Attachment





Fife Symington
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

August 28, 1997

M.G. Fitzgerald
U.S. Onshore Manager
Exxon Exploration Company
P.O. Box 4778
Houston, TX 77210-4778

Re: Exxon (Humble Oil & Refining Company)
\$25,000 Oil Drilling Blanket Bond #5-10-11-58
The American Insurance Company

Dear Mr. Fitzgerald:

In accordance with Arizona statutes, the Arizona Geological Survey now provides administrative and staff support to the Arizona Oil and Gas Conservation Commission.

The Commission's records show that Exxon Exploration Company maintains the referenced bond and yet has no outstanding drilling or plugging obligations in Arizona. A copy of the referenced bond is enclosed.

We have no record of written permission by the Arizona Oil and Gas Conservation Commission to terminate liability under the bond.

Please advise me in writing of your desire to be released from liability under the bond.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

enclosure

Operator EXXON CORP (HUMBLE OIL & REFINING COMPANY)
Bond Company THE AMERICAN INSURANCE COMPANY Amount \$25,000
Bond No. 5-10-11-58 Date Approved 3-21-67

CANCELLED

DATE 3/16/98

Permits covered by this bond:

- 28 - Merrion
- 58 - Merrion
- 65 - P&A 12/23/58
- 388 - Kerr McGee
- 393 - P&A 10/14/69
- 394 - Expired
- 400 - P&A 6/13/70
- 401 - P&A 10/16/69
- 421 - Kerr McGee
- 431 - Kerr McGee
- 443 - Kerr McGee
- 444 - Merrion
- 447 - Kerr McGee
- 452 - P&A 10/16/69
- 454 - P&A 10/15/69
- 515 - Merrion
- 583 - P&A 7/27/72
- 588 - P&A 8/11/72
- 597 - P&A 12/18/72
- 604 - P&A 2/24/73

HUMBLE OIL & REFINING COMPANY

POST OFFICE BOX 1600 • MIDLAND, TEXAS 79701

MIDCONTINENT DIVISION

A. J. TISDALE
SERVICES MANAGER

December 22, 1972

RE: American Insurance Company No. 5101158
Arizona \$25,000.
Blanket Drilling Bond
File: 8 - 10

Oil and Gas Conservation Commission
State of Arizona
1624 West Adams
Phoenix, AZ 85007

Gentlemen:

As you may know, Humble Oil & Refining Company plans to merge into its parent organization, Exxon Corporation, effective January 1, 1973. Humble has the captioned bond on file with you and, as a result of the merger and to effect the change in name, we are enclosing a rider executed by Exxon Corporation as principal. Please attach the rider to our bond.

We would appreciate your acknowledging acceptance of the rider by signing in the space provided and returning a copy to my attention, P. O. Box 1600, Midland, TX 79701.

Very truly yours,

A. J. Tisdale

A. J. Tisdale

CWR/pw
Encs.

RECEIVED

JAN 04 1973

O & G CONS. COMM.

604



FIREMAN'S FUND INSURANCE COMPANY
THE AMERICAN INSURANCE COMPANY
NATIONAL SURETY CORPORATION
AMERICAN AUTOMOBILE INSURANCE COMPANY
ASSOCIATED INDEMNITY CORPORATION
HOME OFFICE: SAN FRANCISCO, CALIFORNIA

RIDER

WHEREAS, on or about MARCH 17, 1967, We, as Surety, executed
BLANKET OIL & GAS DRILLING BOND, our number 5101158,
on behalf of HUMBLE OIL & REFINING COMPANY,
as Principal, in favor of STATE OF ARIZONA,
in the amount of TWENTY FIVE THOUSAND AND NO/100----- (\$25,000.00).

It is hereby agreed and understood that effective JANUARY 1, 1973
the name of the Principal is amended to read as follows:

EXXON CORPORATION

Provided, however, that the liability of ~~EXXON~~ THE AMERICAN INSURANCE COMPANY
under the attached bond and under the ~~attached~~ new bond as changed by this
rider shall not be cumulative.

All other terms and conditions remain the same.

SIGNED, sealed and dated this 18TH day of DECEMBER 19 72.

ATTEST:

D.C. Mohr
ASSISTANT SECRETARY

EXXON CORPORATION
(Principal)

BY: Emilio C. Collado
EXECUTIVE VICE-PRESIDENT DEC 28 1972

THE AMERICAN INSURANCE COMPANY
(Surety)

BY: Vivian Farley
VIVIAN FARLEY-ATTORNEY-IN-FACT

ACCEPTED:

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
(Obligee)

BY: W.B. Bee

RECEIVED

JAN 04 1973

O & G CONS. COMM.

CANCELLED
DATE

W W

GENERAL
POWER OF
ATTORNEY

THE AMERICAN INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That THE AMERICAN INSURANCE COMPANY, a Corporation duly organized and existing under the laws of the State of New Jersey, and having its Home Office in the City and County of San Francisco, California, has made, constituted and appointed, and does by these presents make, constitute and appoint **VIVIAN FARLEY, SHIRLEY RICH** AND **JACK D. SMITH**, jointly or severally -----

HOUSTON, TEXAS
its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, seal, acknowledge and deliver any and all bonds, undertakings, recognizances or other written obligations in the nature thereof-----

and to bind the Corporation thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the Corporation and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises.

This power of attorney is granted pursuant to Article VIII, Section 30 and 31 of By-laws of THE AMERICAN INSURANCE COMPANY adopted on the 7th day of May, 1963, and now in full force and effect.

"Article VIII, Appointment and Authority of Resident Assistant Secretaries, and Attorneys-in-Fact and Agents to accept Legal Process and Make Appearances.

Section 30. Appointment. The Chairman of the Board of Directors, the President, any Vice-President or any other person authorized by the Board of Directors, the Chairman of the Board of Directors, the President or any Vice-President, may, from time to time, appoint Resident Assistant Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the Corporation and Agents to accept legal process and make appearances for and on behalf of the Corporation.

Section 31. Authority. The Authority of such Resident Assistant Secretaries, Attorneys-in-Fact, and Agents shall be as prescribed in the instrument evidencing their appointment, and any such appointment and all authority granted thereby may be revoked at any time by the Board of Directors or by any person empowered to make such appointment."

This power of attorney is signed and sealed under and by the authority of the following Resolution adopted by the Board of Directors of THE AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 28th day of September, 1966, and that said Resolution has not been amended or repealed:

"RESOLVED, that the signature of any Vice-President, Assistant Secretary, and Resident Assistant Secretary of this Corporation, and the seal of this Corporation may be affixed or printed on any power of attorney, on any revocation of any power of attorney, or on any certificate relating thereto, by facsimile, and any power of attorney, any revocation of any power of attorney, or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Corporation."

IN WITNESS WHEREOF, THE AMERICAN INSURANCE COMPANY has caused these presents to be signed by its Vice-President, and its corporate seal to be hereunto affixed this 8th day of January, 1971.



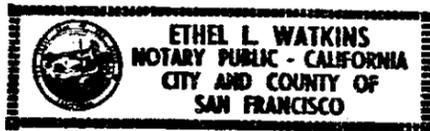
THE AMERICAN INSURANCE COMPANY

By S. D. Menist
S. D. MENIST, Vice-President

STATE OF CALIFORNIA, }
CITY AND COUNTY OF SAN FRANCISCO } ss.

On this 8th day of January, 1971, before me personally came S. D. MENIST, to me known, who, being by me duly sworn, did depose and say: that he is Vice-President of THE AMERICAN INSURANCE COMPANY, the Corporation described in and which executed the above instrument; that he knows the seal of said Corporation; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Corporation and that he signed his name thereto by like order.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year herein first above written.



Ethel L. Watkins
ETHEL L. WATKINS, Notary Public
My commission expires March 2, 1971.

CERTIFICATE

STATE OF CALIFORNIA, }
CITY AND COUNTY OF SAN FRANCISCO } ss.

I, the undersigned, Assistant Secretary of THE AMERICAN INSURANCE COMPANY, a NEW JERSEY Corporation, DO HEREBY CERTIFY that the foregoing and attached POWER OF ATTORNEY remains in full force and has not been revoked; and furthermore that Article VIII, Sections 30 and 31 of the By-laws of the Corporation, and the Resolution of the Board of Directors, set forth in the Power of Attorney, are now in force.

Signed and sealed at the City and County of San Francisco. Dated the 18th day of December, 19 72.



RECEIVED Winifred H. Browne
WINIFRED H. BROWNE, Assistant Secretary

JAN 04 1973

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 5-10-11-58

That we: HUMBLE OIL & REFINING COMPANY

of the County of: Oklahoma in the State of: Oklahoma

as principal, and THE AMERICAN INSURANCE COMPANY

of San Francisco, California

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the Oil and Gas Conservation Commission, State of Arizona, in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents. The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas, helium, other minerals, or for stratigraphic purposes in and upon the following described land situated within the State, to wit:

Blanket Bond

(May be used as blanket bond or for single well)

CANCELLED
3-16-98

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect. Liability under this bond may not be terminated without written permission of this commission.

Penal sum of TWENTY FIVE THOUSAND AND NO/00 ----- (\$25,000.00) ----- Dollars

Witness our hands and seals, this 17 day of March, 1967

HUMBLE OIL & REFINING COMPANY

BY: [Signature] Principal

Witness our hands and seals, this 17 day of March, 1967

THE AMERICAN INSURANCE COMPANY

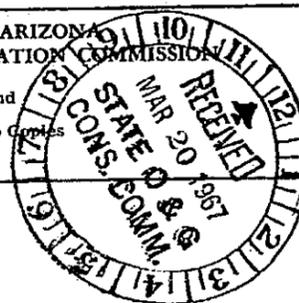
BY: Mary W. Lewis Attorney-in-fact

Elaine Laass
Surety, Resident Arizona Agent
(If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved: [Signature]
Date: 3-21-67
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: [Signature]

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2



Permit No. 388

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 5-10-11-58

That we: HUMBLE OIL & REFINING COMPANY

of the County of: Oklahoma in the State of: Oklahoma

as principal, and THE AMERICAN INSURANCE COMPANY

of San Francisco, California
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the Oil and Gas Conservation Commission, State of Arizona, in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents. The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas, helium, other minerals, or for stratigraphic purposes in and upon the following described land situated within the State, to wit:

Blanket Bond
(May be used as blanket bond or for single well)

CANCELLED
3-16-98

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect. Liability under this bond may not be terminated without written permission of this commission.

Penal sum of TWENTY FIVE THOUSAND AND NO/00 ----- (\$25,000.00) ----- Dollars

Witness our hands and seals, this 17 day of March, 1967

HUMBLE OIL & REFINING COMPANY

BY: [Signature] Principal

Witness our hands and seals, this 17 day of March, 1967

THE AMERICAN INSURANCE COMPANY

BY: [Signature] Attorney-in-fact
Mary W. Lewis

[Signature]
Surety, Resident Arizona Agent
(If issued in a state other than Arizona)

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved: [Signature]
Date: 3-21-67
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: [Signature]

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2



Permit No. 388

THE AMERICAN INSURANCE COMPANY
NEWARK, NEW JERSEY

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE AMERICAN INSURANCE COMPANY, a corporation of New Jersey does hereby make, constitute and appoint

Mary W. Lewis of Oklahoma City, Oklahoma

its true and lawful Attorney(s)-in-Fact, with full power and authority, for and on behalf of the Company as surety, to execute and affix the seal of the Company thereto, if a seal is required, and deliver

Any and all bonds, undertakings, recognizances or other written obligations in the nature thereof

and the execution of such bonds or undertakings in pursuance of these presents shall be binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Newark, New Jersey, in their own proper persons.

This appointment is made under and by authority of a certain Instrument of Authority and pursuant to Article VIII, Sections 30 and 31 of the By-Laws of the Company, shown on the reverse side hereof, which Instrument of Authority and by-laws are now in full force and effect.

IN WITNESS WHEREOF, THE AMERICAN INSURANCE COMPANY has caused these presents to be signed and its corporate seal to be hereunto affixed on September 30, 1964

THE AMERICAN INSURANCE COMPANY

(CORPORATE SEAL)

BY

ROBERT R. SOTT
Secretary

State of New Jersey,
County of Essex

ss:

On September 30, 1964

before me appeared the above-named officer of THE AMERICAN INSURANCE COMPANY, to me personally known, who, being by me duly sworn, did say that he is the individual and officer described in and who executed the preceding instrument, and that the seal affixed to said instrument is the corporate seal of said Company, and that said instrument was signed and sealed on behalf of said Company by authority and direction of said Company, and the said officer acknowledged said instrument to be the free act and deed of said Company.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year first above written.

(SIGNED)
(SEAL)

My Commission Expires June 28, 1966

TERESA S. FARINA
Notary Public of New Jersey

CERTIFICATE

State of New Jersey,
County of Essex

ss:

I, PHILIP B. SHEFFER

Resident Assistant Secretary of THE AMERICAN INSURANCE COMPANY, a corporation of New Jersey, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by a Secretary of the said Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company on March 17, 1967

Philip B. Sheffer
Resident Assistant Secretary

ARTICLE VIII

Appointment and Authority of Resident Assistant Secretaries, and Attorneys-in-Fact, and Agents to Accept Legal Process and Make Appearances.

Section 30. **Appointment.** The Chairman of the Board of Directors, the President, any Vice President or any other person authorized by the Board of Directors, the Chairman of the Board of Directors, the President or any Vice President, may, from time to time, appoint Resident Assistant Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the Corporation and Agents to accept legal process and make appearances for and on behalf of the Corporation.

Section 31. **Authority.** The authority of such Resident Assistant Secretaries, Attorneys-in-Fact, and Agents shall be as prescribed in the instrument evidencing their appointment, and any such appointment and all authority granted thereby may be revoked at any time by the Board of Directors or by any person empowered to make such appointment.

INSTRUMENT OF AUTHORITY

KNOW ALL MEN BY THESE PRESENTS: that ROBERT R. SCOTT, Secretary of THE AMERICAN INSURANCE COMPANY, is hereby vested with full power and authority to appoint and revoke Resident Assistant Secretaries and Attorneys-in-Fact of this Corporation and Agents to accept process and make appearances for and on behalf of this Corporation under and pursuant to Article VIII, Sections 30 and 31, of the By-laws of this Corporation.

THE AMERICAN INSURANCE COMPANY

By WILLIAM W. LAUBER
Vice President

THE AMERICAN INSURANCE COMPANY

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That THE AMERICAN INSURANCE COMPANY, a corporation of New Jersey, does hereby make, constitute and appoint

Elaine Laass of Phoenix, Arizona

its true and lawful Attorney(s)-in-Fact, with full power and authority, for and on behalf of the Company as surety, to execute and affix the seal of the Company thereto, if a seal is required, and deliver

Any and all bonds, undertakings, recognizances or other written obligations in the nature thereof

and the execution of such bonds or undertakings in pursuance of these presents shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company in their own proper persons.

IN WITNESS WHEREOF, THE AMERICAN INSURANCE COMPANY has caused these presents to be signed and its corporate seal to

be hereunto affixed on March 10, 1966

THE AMERICAN INSURANCE COMPANY

(CORPORATE SEAL)

BY

WILLIAM W. LAUBER

Vice President

State of New Jersey, } ss:
County of Essex

March 10, 1966

On March 10, 1966, before me appeared the above-named officer of THE AMERICAN INSURANCE COMPANY, to me personally known, who, being by me duly sworn, did say that he is the individual and officer described in and who executed the preceding instrument, and that the seal affixed to said instrument is the corporate seal of said Company, and that said instrument was signed and sealed on behalf of said Company by authority and direction of said Company, and the said officer acknowledged said instrument to be the free act and deed of said Company.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year first above written.

(SIGNED)
(SEAL)

WARREN J. STANGLEIN

Notary Public of New Jersey

My Commission Expires June 10, 1967

State of New Jersey, } ss:
County of Essex

I, H. L. JOHNSON, Assistant Secretary of THE AMERICAN INSURANCE COMPANY, do hereby certify that the following is a full, true and correct copy of Article VIII, Section 30 and Section 31, of the By-laws of THE AMERICAN INSURANCE COMPANY adopted on the 7th day of May, 1963, and now in full force and effect, to wit:

"ARTICLE VIII, Appointment and Authority of Resident Assistant Secretaries, and Attorneys-in-Fact and Agents to accept Legal Process and Make Appearances.

SECTION 30. Appointment. The Chairman of the Board of Directors, the President, any Vice President or any other person authorized by the Board of Directors, the Chairman of the Board of Directors, the President or any Vice President, may, from time to time, appoint Resident Assistant Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the Corporation and Agents to accept legal process and make appearances for and on behalf of the Corporation.

SECTION 31. Authority. The Authority of such Resident Assistant Secretaries, Attorneys-in-Fact, and Agents shall be as prescribed in the instrument evidencing their appointment, and any such appointment and all authority granted thereby may be revoked at any time by the Board of Directors or by any person empowered to make such appointment."

And I do hereby further certify that the Certification of this Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolution adopted by the Board of Directors of The American Insurance Company at a meeting duly called and held on the 23rd day of June, 1965, and that said resolution has not been amended or repealed:

"RESOLVED, that the signature of any Resident Assistant Secretary of this Corporation, and the seal of this Corporation, may be affixed or printed by facsimile to any certificate to a Power of Attorney of this Corporation, and that such printed facsimile signature and seal shall be valid and binding upon this Corporation."

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of THE AMERICAN INSURANCE COMPANY, on March 10, 1966

H. L. JOHNSON

Assistant Secretary

(CORPORATE SEAL)

CERTIFICATE

State of New Jersey, } ss:
County of Essex

I, TERESA S. FARINA, Resident Assistant Secretary of THE AMERICAN INSURANCE COMPANY, a corporation of New Jersey, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by a Vice President of the said Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company on March 15, 1967



Teresa S. Farina
Resident Assistant Secretary

May 15, 1967

Fireman's Fund American Insurance Company
P.O. Box 66490
Houston, Texas 77006

Attention: Mr. J.F. Spence, Jr., Bond Dept.

Re: Bond 5-10-11-58, \$25,000.00
Humble Oil & Refining Company

Gentlemen:

Your letter of May 10, 1967 concerning captioned bond is acknowledged.

Please be advised that this will constitute permission from this Commission to terminate Federal Insurance Company Bonds 8027-26-26 and 8027-26-25, in the amount of \$5,000 each, covering Humble's #1 Navajo well, 4-41N-28E, Apache County, and Humble's #E-1 Navajo well, 10-41N-28E, Apache County.

The captioned bond will now be applied to these above wells as well as any other wells drilled by Humble Oil and Refining Company within this state.

Very truly yours,

John Bannister
Executive Secretary
mr

cc: Humble Oil & Refining Co., Attn Mr. S.E. Key,
2000 Classen Center North, Oklahoma City, Okla.

Federal Insurance Co., c/o Loiseau, Neiswanger & Co.
1410 Security Life Bldg., Denver, Colo. 80202

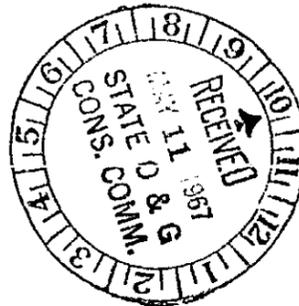
Stanley Spore: BRANCH MANAGER



HOUSTON BRANCH OFFICE: 3015 RICHMOND AVENUE, ROOM 200 • HOUSTON, TEXAS 77006 • PHONE: JACKSON 6-2771
MAILING ADDRESS: POST OFFICE BOX 66490

May 10, 1967

Mr. John Bannister, Executive Secretary
Oil & Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona 85007



HUMBLE OIL & REFINING COMPANY
BOND NUMBER: 5-10-11-58
\$25,00.00 BLANKET OIL AND GAS DRILLING BOND
STATE OF ARIZONA

Dear Mr. Bannister:

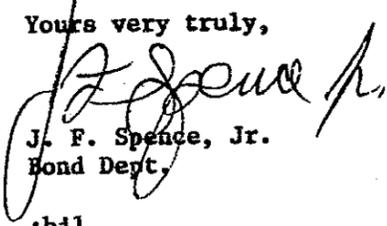
This is to advise that the captioned bond which lists the American Insurance Company as Surety, is intended to cover the producing wells at the following described locations:

1. Navajo Tribe of Indians E-1, located 2310' FNL X 1980' FEL of Section 10-41N - 28 E, G and SR, Apache County, Arizona
2. Navajo Tribe of Indians 1, located 1980 ft. FSL X 1080 ft. FEL of section 4-41N-28E, G & SR, Apache County, Arizona

It is hoped that our expressed intent that these two wells be specifically covered under the captioned Blanket Bond, will allow you to cancel the Federal Insurance Co. bonds numbered 8027-26-25 and 8027-2626.

If we can be of further service, please advise.

Yours very truly,


J. F. Spence, Jr.
Bond Dept.

:bjl

cc: Mr. S. E. Key
2000 Classen Center, North Building
Humble Oil & Refining Co., Oklahoma City, Okla.



HEMISFAIR'68
SAN ANTONIO



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

February 7, 1995



Larry D. Fellows
Director and State Geologist

Mr. Ed Candi
U.S. Bureau of Reclamation
P. O. Box D
Yuma, Arizona 85366

file 607

Dear Ed:

The information on the four wells we talked about this morning is enclosed. This includes applications for permit, completion reports, and plugging reports for the Exxon #1 Yuma-Federal, the Dowling #1A State, and the two Central Oil wells, the #1 Aman and the #1 MCP Blank. There isn't a completion report in the Dowling file.

Sincerely,

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosures



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5151

September 13, 1975⁴

H. Wesley Peirce
Arizona Bureau of Mines
University of Arizona
Tucson, Arizona 85721

Dear Wes:

Under separate cover we are sending you duplicates of the following wire-line logs for your files:

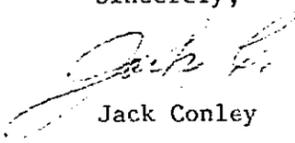
Exxon 1 Yuma-Federal PN 604 (6)
Humble 1 Arizona State-14-1 PN 588 (3)
Humble 1 Arizona State-74 PN 583 (7)

We do not have any duplicates of Humble 1 State-32, PN 597. We do have half-scale film positives and negatives. I am enclosing for Aiken's use the following four half-scale blue-line logs:

Compensated Neutron
Compensated Formation Density
Compensated Neutron Formation Density
Borehole Compensated Sonic - Gamma Ray

Please ask him to return these logs at his very earliest convenience.

Sincerely,


Jack Conley

JNC:os

CC: Carlos L. V. Aiken

August 21, 1974

Memo to File: Exxon Yuma Federal No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Memo from: W. E. Allen, Director
Enforcement Section

According to Ben Stanley, Exxon geologist, the primary interest of Exxon in drilling the subject well was to explore the Bouse formation. This formation was penetrated from 4087 to 6964. At 9200 an Arkosic material was encountered. This led the geologists to believe that they were very near basement rocks. Schlumberger was called out of Bakersfield, California to log. By the time Schlumberger had reached location, the Arkosic material had given way to a series of red beds & lava flows. Drilling continued to 10,560 in the same series of rocks. The well was logged at this depth, 10,560. Following logging of the hole, drilling was resumed and continued to a total depth of 11,444. This additional 884' was a continuation of red beds and lava flows. From Stanley's remarks, upper echelon people ordered drilling stopped and the need for further logging was not considered to be worth the additional cost.

August 15, 1974

Mr. Ben Stanley
Exxon Corporation
P. O. Box 1600
Midland, Texas 79701

Re: Yuma Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Dear Mr. Stanley:

This is a rather belated inquiry, but we would like to know if you people ran logs on the above referenced well below 10,560'. Our information indicates that this hole was logged on February 8, 1973 to a depth of 10,560'. Total depth of 11,444' was reached on February 22, 1973. We have no logs on this 884' of hole.

If the logs were run on this section, please supply this Commission with copies. If no logs were run, we would appreciate your explanation as to the reason.

Your cooperation is appreciated.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

*For answer to this letter see memo dated
Aug. 21, 1974 on other side of file.*

July 5, 1974

Dr. Shafiqullah
Department of Geosciences
University of Arizona
Tucson, Arizona 85721

Re: Exxon No. 1 State (14)
Sec 25-T3S-R11W
Yuma County, Permit #588

Exxon Yuma Federal No. 1
Sec 8-T11S-R24W
Yuma County, Permit #604

Dear Dr. Shafiqullah:

Enclosed are the logs you requested per our telephone conversation this date.

Exxon Federal No. 1: Sample Log
Induction Electrical Log-2
Compensated Neutron Formation Density-2
Borehole Compensated Sonic Log-2

Exxon No. 1 State 14: Sample Log
Sidewall Neutron Porosity Log
Compensated Formation Density Log
Borehole Compensated Sonic Log-Gamma Ray
Induction Electrical Log

We would appreciate receiving these logs back at your earliest convenience.

Very truly yours,

James R. Scurlock
Staff Geologist

JRS/rlb

Encs.

Logs returned 7-23-74



OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

March 19, 1974

Mr. Les Herndon
Atlantic Richfield Company
P. O. Box 147
Bakersfield, California 93302

Dear Les:

I goofed--it seems that we have only one mud log of the four Humble wells. However, I find that we have strip logs supplied to us by Humble on the other three wells. They may be helpful to you. These seem to be rather generalized sample logs and I have taken the liberty of sending them out for reproduction along with the one mud log. You should be receiving these logs in a few days along with I imagine a rather large bill from Phoenix Blueprint Company here in Phoenix. I am sorry to say that we have never been able to find a satisfactory means of reproducing our data without entailing so darn much expense. The mud log covers the Humble #1-32 State (Section 5-T16S-R15E). I should mention that an American Stratigraphic log is available on the Humble No. 1-74 State (Section 2-T8S-R8E).

Kindest regards to Proc, Eugene and Dale. I hope our trails cross again soon. Let us know if we can supply anything else from our files.

Yours truly,

James R. Scurlock
Staff Geologist

JRS/rlb

Atlantic Richfield Company

North American Producing Division
California District
Post Office Box 147
Bakersfield, California 93302
Telephone 805 831 1600



March 14, 1974

Mr. James Scurlock
Oil & Gas Conservation Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Jim:

I would appreciate receiving mud logs and any sample and core descriptions on all four of the Humble wells, if possible.

#1-32 State	Sec. 5-16S-15E
#1-74 State	Sec. 2-8S-8E
#1-14 State	Sec. 25-3S-11W
#1- Yuma-Federal	Sec. 8-11S-24W

If any reproduction costs are involved have them billed to us, direct.

M. R. Proctor and Gene Douglas send their regards, as does Dayle Rushing.

Sincerely yours,


Les Herndon

LH:wo

RECEIVED

O & G UNIT COMM.

March 15, 1974

Mr. Ted Strickland
Rocky Mountain Well Log Service Co.
1753 Champa Street
Denver, Colorado 80202

Dear Mr. Strickland:

In regards to your letter of March 1, 1974 concerning the logs on Exxon Oil Company's No. 1 Yuma Federal, Yuma County, Arizona; we have been advised by Exxon that your company and Texaso Log Service have been furnished copies of these logs by Exxon.

Should you still need these logs, please advise.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

WAL

Rocky Mountain Well Log Service Co.

1753 Chompa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



March 1, 1974

CASPER, WYOMING

BOB FITZGERALD
PETR. BLDG. ARCADE
PHONE 234-6921

Oil & Gas Conservation Commission
State of Arizona
4515 North 7th Ave.
Phoenix, Arizona 85013

MIDLAND, TEXAS

DAVID CLARK
105 WEST WALL
PHONE 482-0591

Attn: W. E. Allen, Director

Dear Mr. Allen:

Once again, thank you for loaning us the set of logs on the Humble O & G #1-32 Ariz. State.

We now need to borrow the logs on:
Exxon Oil Co.
#1 Yuma-Federal
8-11S-24W
Yuma, Arizona.

If these logs are available, please find a self-addressed, postage-paid envelope enclosed for your convenience.

Thank you for your cooperation in advance.

Very truly yours,

Ted Strickland
Ted Strickland

TLS:ck

Encl.

RECEIVED

MAR 1 1974

O & G CONS. COMM.

March 11, 1974

American Stratigraphic Company
6280 East 39th Avenue
Denver, Colorado 80207

Dear Sirs:

We are shipping today by Continental Trailways (collect) a set of samples on the ~~Exxon Corporation #1 Yuma-Federal in Yuma,~~ Arizona. A copy of the completion report, submitted by Exxon, is enclosed.

Please return the samples to us when you are finished with them. I understand we are to get a complimentary copy of the log from you.

Thank you most kindly for your cooperation in this matter.

Yours truly,

James R. Scurlock
Geologist

JRS/r1b

Enc.

P.S. Mr. Gary Spraul of Mobil Oil in Houston has sent you a set of samples on the Geothermal Kinetics #1 Power Ranches well in Maricopa County, Arizona. Will you please return this set when you are finished running them. Thanks again.

March 1, 1974

Mr. Roy Suguira
Woodward, McNeil and Associates
4000 West Chapman Avenue
Orange, California 92668

Re: Exxon Yuma Federal No. 1
SW/NE Sec 8-T11S-R24W
Yuma County
Permit No. 604

Dear Mr. Suguira:

Your request for logs on the above referenced well has been referred to me. It is impossible at this time to lend these logs. If you so desire, we can have copies made locally for you. If you wish to have these copies made, it will be necessary that you arrange for credit with the blueprint company doing the work.

We are sorry that we cannot honor your request for these logs at the present time.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

February 26, 1974

Dr. Wes Peirce
Arizona Bureau of Mines
University of Arizona
Tucson, Arizona 85721

Dear Wes:

Here's the completion data on the Humble well. We are still trying to find what is the Kinter Formation. Please keep your ear to the ground in case you run across a mention of this formation--maybe it comes from California?

Hope to see you soon.

Best regards,

Jim R. Scurlock
Staff Geologist

JRS/rlb

Encs.

February 25, 1974

Ms. Kay Waller
Petro-Well Libraries Inc.
150 Security Life Building
1616 Glenarm Place
Denver, Colorado 80202

Re: February Current File Material

Dear Kay:

Enclosed you will find the following current material for February:

Data - Completion, plugging and miscellaneous reports on
File #604, Exxon Federal No. 1.

Logs - One Sample Log, two Induction-Electrical Logs,
two Borehole Compensated Sonic Logs (with caliper),
and two Compensated Neutron-Formation Density Logs.

Very truly yours,

Rhema Brandt

/rlb

Encs.

Received logs from P.W. 3-11-74

File #604

December 19, 1973

Mr. Don Chene
906 1/2 West Romneya Drive
Anaheim, California 92801

Dear Mr. Chene:

In reply to your inquiry of December 15, 1973, concerning Humble's drilling activities in the State this past year. Information from three of these wells have been released for public scrutiny. The fourth well that was drilled just east of San Luis in Yuma County will be released to the public on February 24, 1974.

Information submitted by Humble to this office failed to indicate the presence of hydrocarbons in the first three wells drilled. The well drilled by Humble northeast of Eloy failed to encounter the salt zones that were expected. There was salt in this well, however, it was just a few thin stringers above 6,000'. There was a massive anhydrite section extending below 6,000'. This anhydrite section might be the thickest section ever drilled. Any information that we have on the three latest wells will be gladly furnished to you or any other interested person.

If we can be of further service, please do not hesitate to let us know.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:r1b

December 15, 1973

Mr. John Bannister
Arizona Oil and Gas Conservation Commission,
4515 North 7th Ave.,
Phoenix, Arizona.

Dear Mr. Bannister :

As you know, two of the Humble Oil Company drillings in Arizona are now over a year old and some kind of information should be available to some of the people interested in supporting Arizona's potential as an entry into petroleum production in areas other than the Four Corners in Arizona.

The agency for Humble's geophysical work in Arizona called me last year and wanted my permission to lay seismic lines across some of the sections under lease by my partner and myself between Florence and Eloy. This permission was given to them and their work was completed before drilling began. There is something there the seismic report did not reveal that I must correlate with Humble in January and call to their attention. This is the presence of a salt dome about four miles in diameter in Township 9 South and I will give them the location if they will just say that they would like to have it.

Any information you can give me at this time on the Humble drillings at Eloy or at Sahuarita will be vastly appreciated.

Will see you in 1974 to be sure.

Sincerely yours,

Don Chene *Don Chene*

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RECEIVED

DEC - 15 1973

O & G CONS. COM. 1.



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

September 21, 1973

Mr. Ted Strickland
Rocky Mountain Well Log Service
1753 Champa Street
Denver, Colorado 80202

Dear Mr. Strickland:

In response to your request of September 18, 1973 we are enclosing the following logs. Under separate cover you will receive the Humble #1 State (74) logs.

Eastern #1 Merde Indian
30-20N-28E, Permit #592
Compensated Density Log
Induction-Electric Log
(Acoustic Cement Bond
Micro-Seismogram)

Eastern #2 Merde Indian
30-20N-28E, Permit #596
Compensated Density Log
Induction-Electric Log

Eastern #1 Santa Fe-Fee
29-19N-29E, Permit #586
(no logs available)

Eastern North Kiva-Santa Fe
11-20N-28E, Permit #601
Compensated Density Log
Induction-Electric Log

Exxon Oil Company
#1 Yuma-Federal
8-11S-24W, Permit #604
Confidential Status until 2-24-74

Humble Oil & Refining #1 State (14)
25-3S-11W, Permit #588
Logs presently out of office,
will send as soon as received.

Humble Oil & Refining #1 State (32)
5-16S-15E, Permit #597
Confidential Status until 12-19-73

If we can be of further assistance, please let us know.

Very truly yours,

W. E. Allen, Director
Enforcement Section

Rhema Brandt
Sec. to W. E. Allen

/rllb

*2-28-74 called Loren Hughes to verify that
Exxon's #604 logs were not sent to Rocky Mt. before release
date!*

Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



September 18, 1973

CASPER, WYOMING
BOB FITZGERALD
PETR. BLDG. ARCADE
PHONE 234-6921

State of Arizona, Oil & Gas Conservation Commission
Attn: W. E. Allen
4515 North 7th Ave.
Phoenix, Arizona 85013

MIDLAND, TEXAS

DAVID CLARK
105 WEST WALL
PHONE 482-0591

Dear Mr. Allen

Thank you for loaning us the enclosed prints.

May we borrow the following logs from your files?:

Easter Petroleum Co.
#1 Merde Indian
30-20N-28E

Exxon Oil Co.
#1 Yuma-Federal
8-11S-24W

Eastern Petroleum Co.
#2 Merde Indian
30-20N-28E

Humble Oil & Refg.
#1 State (14)
25-3S-11W

Eastern Petroleum
#1 Santa Fe-Fee
29-19N-29E

Humble Oil & Refg.
#1 State (32)
5-16S-15E

Eastern Petroleum
North Kiva-Santa Fe
11-20N-28E

Humble Oil & Refg.
#1 State (74)
2-8S-8E

Thank you once again for your assistance.

Very truly yours,

Rocky Mountain Well Log Service Co.

Ted Strickland
Ted Strickland

TLS:ck

Encl.

RECEIVED

SEP 21 1973



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

May 31, 1973

Mr. Harry Martin
Exxon Corporation
P. O. Box 1600
Midland, Texas 79701

Re: Well Drilling Cost

Dear Harry:

Apparently, you people have released your well drilling cost incurred in Arizona to Petroleum Information. In a recent issue of P.I. they listed your cost on your initial well as \$386,000 and on your State 74 in Pinal County as \$627,000. If this cost information is no longer confidential, I would appreciate receiving the drilling cost on the other two strat tests that were drilled in the State and also a ball park figure as to the percentage of these expenditures that remained in the State in the form of wages, supplies, taxes and so forth.

If you can furnish me with this information, we will attempt to use it to the best advantage of Exxon Corporation.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb



OFFICE OF

Oil and Gas Conservation Commission

STATE OF ARIZONA

4515 NORTH 7TH AVE.

PHOENIX, ARIZONA 85013

PHONE: (602) 271-5161

April 23, 1973

Mr. Harry Martin
Exxon Corporation
P. O. Box 1600
Midland, Texas 79701

Re: Exxon No. 1 State (74)
NW/SE Sec 2-T8S-R8E
Pinal County
Permit No. 583

Exxon No. 1 State (32)
NE/SW Sec 5-T16S-R15E
Pima County
Permit No. 597

Exxon No. 1 State (14)
NW/SE Sec 25-T3S-R11W
Yuma County
Permit No. 588

Exxon Yuma Federal Well No. 1
Sec 8-T11S-R24W (NW-/SE)
Yuma County
Permit No. 604

Dear Mr. Martin:

Since Exxon has terminated, at least temporarily, their exploratory program in Arizona, will you please send this Commission the samples on the above referenced wells.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b



United States Department of the Interior
BUREAU OF RECLAMATION

LOWER COLORADO REGIONAL OFFICE
P.O. BOX 427
BOULDER CITY, NEVADA 89005

W.D.
IN REPLY
REFER TO: LC-420
773.

MAR 9 1973

Mr. W. E. Allen, Director
Enforcement Section
Oil and Gas Conservation
Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Mr. Allen:

Your letter of February 22, 1973, addressed to our Yuma Projects Office, Yuma, Arizona, regarding an abandoned wildcat gas well near San Luis, Arizona, has been referred to us for reply. Enclosed is your Form No. 26 which has been signed and notarized whereby jurisdiction of the well is transferred from Exxon Corporation to this Bureau. Please note that we have modified language of the form to reflect that the Bureau of Reclamation has accepted the well in connection with our ground water observation program rather than for a use as a water well.

Sincerely,

E. A. Lundberg
E. A. Lundberg
Regional Director

Enclosure

RECEIVED

MAR 12 1973

O & G CONS. COMM.

WA

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 - MIDLAND, TEXAS 79701

EXPLORATION DEPARTMENT
SOUTHWESTERN DIVISION
D. G. GARROTT
MANAGER

March 5, 1973

Re: Exxon Yuma Federal #1
Sec. 8, T-11-S, R-24-W
G&SR Meridian
Yuma County, Arizona

004

Mr. W. E. Allen, Director
Enforcement Section
Oil & Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Mr. Allen:

Exxon Company, U.S.A. hereby requests an additional six months
confidentiality period, commencing August 25, 1973, on the above
referenced well.

Yours truly,

D. G. Garrott
D. G. Garrott

HDM:lv

RECEIVED

MAR 06 1973

O & G CONS. COMM.

February 22, 1973

Mr. Bob Coutchie
Bureau of Reclamation
Bin 5569
Yuma, Arizona 85364

Re: Exxon Corporation
Yuma Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Dear Mr. Coutchie:

We are attaching several copies of our Form 26, Water Well Acceptance, for your signature if you accept the above referenced well as a water well. If this well is not accepted by a governmental agency, would you please advise this office.

Thank you for your cooperation.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Encs.

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WR

NOTE: This supersedes our letter
dated December 20, 1972.

January 3, 1973

Oil & Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

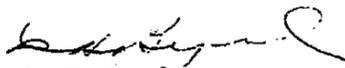
Gentlemen:

Effective on January 1, 1973, Humble Oil & Refining Company merged into its parent corporation. On that date all of the rights, assets, and liabilities of Humble will accrue to and be assumed by Exxon Corporation.

After January 1, 1973, all invoices, payments, notices or other communications which were sent previously to Humble should be sent to Exxon Corporation, P. O. Box 1600, Midland, Texas 79701.

We would appreciate your cooperation in helping us make these changes, and we want to assure you that our policies and business relationships with you will remain the same.

Sincerely,


L. H. Byrd

DLC:mej

RECEIVED
JAN 19 1973
O & G CONS. COMM.

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 · MIDLAND, TEXAS 79701

January 3, 1973

PRODUCTION DEPARTMENT
MID-CONTINENT DIVISION
L. H. BYRD
MANAGER

Oil & Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

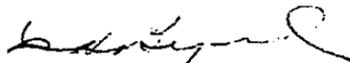
Gentlemen:

Effective on January 1, 1973, Humble Oil & Refining Company merged into its parent corporation. On that date all of the rights, assets, and liabilities of Humble will accrue to and be assumed by Exxon Corporation.

After January 1, 1973, all invoices, payments, notices or other communications which were sent previously to Humble should be sent to Exxon Corporation, P. O. Box 1600, Midland, Texas 79701.

We would appreciate your cooperation in helping us make these changes, and we want to assure you that our policies and business relationships with you will remain the same.

Sincerely,


L. H. Byrd

DLC:mej

RECEIVED
JAN 19 1973
O & G CONS. COMM.

January 4, 1973

Mr. Frank Getscher
P. O. Box 98
Scottsdale, Arizona 85252

Dear Mr. Getscher:

The following permit was issued on January 4, 1973.

Exxon Corporation (Formerly Humble Oil & Refining)
Yuma-Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Proposed depth is 8,000' and the elevation is to be furnished later.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

January 4, 1973

Mrs. Jo Ratcliff
Four Corners Sample Cut Association
P. O. Box 899
Farmington, New Mexico 87401

Dear Mrs. Ratcliff:

The following permit was issued since November 13, 1972.

Exxon Corporation (Formerly Humble Oil & Refining)
Yuma-Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

January 4, 1973

Mr. W. R. Wardroup
Exxon Corporation
P. O. Box 1600
Midland, Texas 79701

Re: Exxon Corporation
Yuma-Federal Well No. 1
Sec 8-T11S-R24W
Yuma County
Permit No. 604

Dear Mr. Wardroup:

Enclosed please find Receipt No. 2942, covering the \$25 filing fee, a copy of your approved Application for Permit to Drill and Permit to Drill No. 604.

Also enclosed are miscellaneous instruction sheets concerning samples and other Commission requirements.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

Encs.

RECEIVED BY MAIL

"TIGHT HOLE"

HUMBLE OIL & REFINING COMPANY
MIDLAND, TEXAS 79701

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION
W. R. WARDROUP
DIVISION DRILLING SUPERINTENDENT

December 14, 1972

POST OFFICE BOX 1600

File No. 22-3

Oil and Gas Conservation Commission
State of Arizona
4515 North 7th Avenue
Phoenix, Arizona 85013

Gentlemen:

We respectfully request that all information be kept confidential for a period of six (6) months after the well completion on the follow described property:

<u>Lease Name & Well No.</u>	<u>Section, Township, Range</u>	<u>County</u>
Yuma-Federal Well No. 1	Sec. 8, T-11-S, R-24-W	Yuma

Very truly yours,

W. R. Wardroup
W. R. Wardroup

DLC:mej

Attachment

RECEIVED
JAN 03 1973
O & G CONS. COMM.