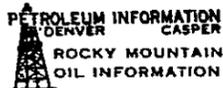


Atlantic Refining Co. 7 - #1 NAV.
SE/4 -SE/4 Sec. 7 -Twp. 40N -R29E
A 50

P-NA

ARIZONA
APACHE CO.
DRY MESA (D)



Twp 40n-29e
Section 7
c se se
660 n/s 660 w/e

OPR: Atlantic Refining

WELL #: 1 Navajo-7

ELEV: 6026 DF

*TOPS: Log-Sample

Chinle 1213
DeChelly 2335
Organ Rock 2723
Hermosa 4066
Paradox 4640
Paradox Lower A 4647
Paradox B 4753
Paradox Lower B 4803
Paradox Upper C 4855
Paradox Middle C 5018
Paradox Lower C 5202
Molas 5396
Mississippian 5465
Mississippian dolo 5550
Devonian 5710
preCambrian 5772

DSTS. & CORES:

DST 2319-88, 40 min,
rec 1550 muddy fresh wtr.
FP 540-650#, SIP (30
min) 650#, HP 1090#.
DST 4715-36, 1 hr, rec
30 mud, FP 15-15#, SIP
failed, HP 2370#. DST
5088-5107, 82 min, gas
in 6 min, gauged 650
MCFPD after 70 min, no
rec, FP 55-95#, SIP (50
min) 1435#, HP 2645#.
(over)

**Perf 5606-16 w/4 per ft;
swbd 143 BO, 102 bbls salt wtr in 24 hrs.
Pumped 88 BO & 40% salt wtr; 91 BF (60% oil) in 24 hrs;
55 BO, 37 bbls salt wtr per day.

SPUD: 5-24-61

COMPL: 7-5-61

TD: 5792

PB: 5686

CSG: 10-3/4" @ 638 w/300
5 1/2" @ 5731 w/375

PERF: 5604-18 w/4 per ft; swbd fluid
(1 1/2% mud, 8% wtr, 90 1/2% oil).
Acidized w/250; swbd & flowed
36 hrs, rec 184 BO, 60 bbls salt
wtr, 21 bbls acid wtr; sqz.**

PROD. ZONE: Mississippian 5606-16

INIT. PROD: IP Swbd 84 1/2 BO, 58 1/2
bbls salt wtr per day.

ATLANTIC REFINING #1 NAVAJO-7, c se se 7-40n-29e, APACHE COUNTY, ARIZONA - 2

DST 5250-67, 75 min, gas in 3 min, gauged 714 MCFPD, FP 70-110#, (35 min) 1480#, HP 2495#. Crd 5588-86, rec 3 dolo, scatt ppp & perm, stain, odor & fluor. Crd 5586-95, rec 2 dolo, bleeding oil on fract; 6 dolo, crys, sli to no fluor. Crd 5595-5605, rec 5 dolo, scatt sli bleeding, good odor & fluor; 3 dolo, vuggy poro, bleeding oil, stain, odor & fluor; 1 dolo, crys, fract, scatt vuggy poro, good stain, odor, sli bleeding. DST 5575-5605, 2 hrs, gas in 3 min, gauged 500 MCFPD thru 3/4" ck (non-flammable), rec 50 O&GCM, FP 40-65#, SIP (60 min) 1520#, HP 2925#. Crd 5605-12, rec 1 dolo, abundant fract, fair to poor vuggy poro, bleeding oil, stain, odor & fluor; 3 1/2 dolo, fair to excellent poro, fair perm, bleeding oil, fair odor & stain. Crd 5612-39, rec 10 dolo, good vuggy poro, scatt vert fract, bleeding oil thruout, good odor & fluor; 10 dolo, scatt vert fract, good vuggy poro, scatt bleeding & fluor; 7 dolo, good vuggy poro, scatt vert fract, faint stain, dull fluor, appears wet. DST 5606-39, 3 hrs, rec 180 free oil, 120 O&GCM, 660 salty wr (sli O&G), FP 70-370#, SIP (45 min) 1515#, HP 2915#.

sl

COUNTY Apache AREA orig Job - later designated Dry Mesa LEASE NO. 14-20-603-4328

WELL NAME Atlantaic #7-1 Now.

LOCATION SE SE SEC 7 TWP 40N RANGE 29E FOOTAGE 660- FSL 660 FEL

ELEV 6015 GR 6029 KB SPUD DATE 5-23-61 STATUS OP TOTAL DEPTH 5785'
5-24-61 Am Strat COMP. DATE 7-5-61 Plugged 6-12-64

CONTRACTOR Mesa Drilling Co. Oil - Undesignated field

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>10 3/4</u>	<u>638'</u>	<u>30 sx</u>	<u>NA</u>	<u>x</u>
<u>5 1/2</u>	<u>5731</u>	<u>375 sx</u>		
<u>2 3/8</u>	<u>5614</u>			

DRILLED BY CABLE TOOL _____
PRODUCTIVE RESERVOIR _____
INITIAL PRODUCTION S 84.4 BOPD
& 58.6 BSWPD 24 hrs.

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Middle "C" Paradox</u>	<u>5088-5107</u>	<u>x</u>	<u>x</u>	
<u>Lower "C" Paradox</u>	<u>5250-5267</u>			<u>See Am Strat</u>
<u>Upper Miss.</u>	<u>5606-5616</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>Sonic, IE</u>	<u>40 jets 5606-5616</u>		<u>Am Strat</u>
			SAMPLE DESCRP. _____
			SAMPLE NO. <u>p 652 T1320</u>
			CORE ANALYSIS _____
			DSTs _____

REMARKS _____
 APP. TO PLUG x
 PLUGGING REP. x
 COMP. REPORT x

WATER WELL ACCEPTED BY Navajo Tribe

BOND CO. Federal Insurance Company BOND NO. 8027-4931

BOND AMT. \$ 25,000 CANCELLED 8-9-66 ORGANIZATION REPORT x

FILING RECEIPT 9262 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. _____ DATE ISSUED 5-17-61 DEDICATION S/2 SE/4

PERMIT NUMBER 146

16

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

Form O & G 52

Form Prescribed Under Oil and Gas Conservation Act of 1951
WELL COMPLETION REPORT
(File in Duplicate)

1/19/62
Gas tested 247 BTU
76% Nitrogen
4.1% Helium
Approx. 200,000 CF

Operator The Atlantic Refining Company Field Wildcat
Street Box 520 Pool _____
City Casper State Wyoming County Apache
Lease Name Navajo Well No. 7 #1 Acres in Unit 40
Location 660' FSL, 660' EL Section 7 Apache County, Arizona
Sec. 7 Twp. 40 N Rge. 29 E
Elevation DF 6024 GR 6015 Electric Log Run June 24 19 61
Number of Crude Oil Producing Wells on this Lease, including this well One
Has Authorization to Transport Oil or Gas from Well, Form O&G 57 been filed? No

OFFICIAL COMPLETION GAUGE

Date Test Commenced 7-4 19 61 Hour 8 AM. Date Test Completed 7-5 19 61 Hour 8 A. M
Length of Test 24 Hours 0 Minutes
For Flowing Well: Swab Test For Pumping Well:
Flowing pressure on Tbg. 0 lbs./sq. in. Length of stroke used _____ inches
Flowing pressure on csg. 550 lbs./sq. in. Number of strokes per min. _____
Size tbg. 2 3/8 in. No. ft. run 5604.94 Size of working barrel _____ inches
Size choke None in. Type choke _____ Size tubing _____ in. No. ft. run _____
Length _____ in. Shut in pressure _____
If flowing well, was this well flowed for the entire duration of this test without the use of
swab or other artificial flow device? No If jetted, used _____ cu. ft.
gas per bbl. oil. Result of this test (bbls. net oil per 24 hrs.) (100% tank tables.) 143 BOPD
Gas-oil ratio of this well is too small to meas. cu. ft. of gas per bbl. of oil.
Per cent water produced during this test 41%
Gravity of oil produced during this test (Corrected to A. P. I. 60°F) 38°
Name of Pipe Line or other carrier Unknown
If perforated: No. Shots 40 Jets From 5606 To 5616 Date Perforated 7-2/61
Date well Spudded May 23 19 61 Date Well Completed July 5 19 61
Top Pay 5604 Ft. Total depth of well 5785 Ft.

CASING LINER AND TUBING RECORD

String	Size	Wt. / Ft.	Name and Type	Amount Ft. In.	Depth Set at	Perforated From	To
Surface	10 3/4"	32.75	Big M. 11-H-40	624.65	638.48		
Oil	5 1/2"	15.5	Big M. 11 - J-55	5,718.87	5731.37	5606	5616
Tubing	2 3/8"	4.6	Big M. 11 - J-55	5604.94	5614.64		

CEMENT AND TESTING RECORD

Size of Hole	String	Where Cement Placed	No. Sacks of Cement	Method Used	Pressure Applied in Testing	Hardness of Cement Drilled	Type of Cement
15"	Surface	Around shoe to Surface	450	Plug	850	Hard	Common
7 7/8"	Oil	Around shoe	375	Plug	1200		Posmix

CHEMICAL OR SHOOTING RECORD BEFORE COMPLETION

Size	Chemical or	Quantity	Date	From	to

AFFIDAVIT

I, L. B. Kelly, being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true and correct.

L. B. Kelly
The Atlantic Refining Company
Representative of Company

Subscribed and worn to before me this 6 day of July 19 61
Watson County, Wyoming Notary Public

My Commission expires:

May 10, 1962

PLUGGING RECORD

Operator The Atlantic Refining Co.		Address Box 2197, Farmington, N. M.	
Name of Lease Navajo		Well No. 7-1	Field & Reservoir Dry Mesa - Mississippian
Location of Well SE SE (660' FSL & 660' FEL)		Sec-Twp-Rge or Block & Survey Sec. 7, T-40N, R-29E	County Apache
Application to drill this well was filed in name of Atlantic Refining Co.	Has this well ever produced oil or gas Yes	Character of well at completion (initial production): Oil (bbls/day) 143 BOPD Gas (MCF/day) TSTM Dry?	
Date plugged: 6/12/64	Total depth 5785'	Amount well producing when plugged: Oil (bbls/day) 9 BOPD Gas (MCF/day) 14 MCFGD Water (bbls/day) 40 BWPD	
Name of each formation containing 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.
Paradox (Middle "C")	Gas	5088-5107	Top primary cmt. 3980
Paradox (Lower "C")	Gas	5250-5267	" " "
Upper Mississippian (open)	Gas, Oil, Water	Perfs. 5606-5616	Spotted cmt. plug from 5490 to 5650 w/ 20 sx cement.

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
10 1/2"	624.65	None	624.65		
5 1/2"	5718.87	1577'	4142'	1588 (shot)	

Was well filled with mud-laden fluid, according to regulations? **Yes except above 800'** Indicate deepest formation containing fresh water. **Not known - Probably 800'**

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

Name	Address	Direction from this well:
Texaco	1570 Grant St., Denver, Colo.	SE
Marathon Oil Company	P.O. Box 120, Casper, Wyo.	S & SW
Sun Oil Company	Denver Club Bldg., Denver	N, W, NE, NW
Navajo Tribe	Surface owner	

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.

OVER

OVER

Use reverse side for additional detail
File this form in duplicate with the State of Arizona Oil & Gas Conservation Commission

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **Drlg. & Prod. Supervisor** of the **Atlantic Refining Company** (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.

June 17, 1964
Date



B. J. Sartain
Signature

**STATE OF ARIZONA OIL & GAS
CONSERVATION COMMISSION**

Form No. P-15

Plugging Record File two copies

146

Lowest 5½" casing freepoint about 1600'. Shot off casing at 1577' below G.L. & pulled casing. Spotted the following cement plugs in addition to plug shown on reverse side.

From 1640 to 1520 with 60 sacks common cement

From 950 to 825 with 50 " " "

Put in dry hole marker. Left 10¾" casing and hole uncemented to top of plug at 825' at request of U.S.G.S. & Navajo Tribe for possible use as water well.

APPLICATION TO ABANDON AND PLUG

FIELD Dry Mesa - Missippian
OPERATOR The Atlantic Refining Company ADDRESS P.O. Box 2197, Farmington
LEASE Navajo WELL NO. 7-1 COUNTY Apache
SURVEY SECTION 7 DRILLING PERMIT NO. 146
LOCATION 660' FSL and 660' FEL (SE SE) Section 7, T-40-N, R-29-E,
Apache County, Arizona

TYPE OF WELL Oil (temporarily abandoned) TOTAL DEPTH 5785'
(Oil, Gas or Dry Hole)
ALLOWABLE (If Assigned)

LAST PRODUCTION TEST OIL 9.0 (Bbls.) WATER 40.0 (Bbls.)
GAS 14 (MCF) DATE OF TEST 8/30/62

PRODUCING HORIZON Missippian PRODUCING FROM 5606' TO 5616'

1. COMPLETE CASING RECORD 10 1/2" O.D. 32.75# H-40 casing set at 638.48 and
cemented to surface.
5 1/2" O.D. 15.5# J-55 set at 5731.37 cemented with 375 sacks cement. Top
cement at 3980'. 5 1/2" casing is perforated as shown above.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Spot cement plug from 5550' to 5650'.
Shoot off 5 1/2" casing at lowest free point. Spot cement plug (100') at
cut off depth of 5 1/2" casing w/ 40 sacks cement. Spot cement plug from
2425' to 2250' w/ 80 sacks cement. Spot cement plug from 950' to 825'
with 50 sacks cement. Put in dry hole marker. 10 1/2" casing and hole to
be left void of cement to top of plug at 825' at request of U.S.G.S. for
possible use as water supply well by Navajo Tribe.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? If not,
outline proposed procedure above.

DATE COMMENCING OPERATIONS Est. June 8, 1964

NAME OF PERSON DOING WORK J. W. Copeland ADDRESS 303 Gladeview, Farmington, N M

CORRESPONDENCE SHOULD BE SENT TO The Atlantic Refining Company
Box 2197, Farmington, New Mexico

NAME
TITLE B J Santain
John P. Bannister
STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Date Approved JUN 11 1964

OK
JKP



STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
Form No. 15A File 2 Copies
Authorized by Order No. 4-6-59
Effective April 6, 1959

146

INSTRUCTIONS

Show all data requested for each well separately, and determine the gas-oil ratio according to the following procedure:

(1) **General:**

- (a) Each well shall have produced its current daily allowable, if such well is capable of producing such allowable, during the 24 hour period immediately preceding the test, and the well shall be producing at the time the actual test begins.
- (b) The volume of gas used in computing the gas-oil ratio and reported as being produced during the test (except tests on gas lift or jetting wells) shall be the total volume of gas produced from the well in the test period. This total volume of gas shall include all gas withdrawn from the casing as well as that produced through the tubing.
- (c) The amount of oil produced during the test shall not be less than the well's then current daily allowable (if the well is capable of producing its allowable) and shall not exceed the daily allowable by more than ten (10) per cent, except that in the case of a well having an allowable already penalized due to its gas oil ratio, the operator may select any rate he desires between the penalized allowable and ten (10) per cent above the unpenalized allowable.

(2) **Flowing Wells That are Produced Continuously:**

The oil flow shall be stabilized during the 24-hour period immediately preceding the test. Adjustments in the rate of flow should be made during the first 12 hours of the stabilization period and no adjustments shall be made during the last 12 hours or during the time in which the well is being tested.

(3) **Flowing Wells That are Produced Intermittently (Stop-cocked):**

In computing the operating gas-oil ratio, the total volume of gas and the total barrels of oil produced during the 24 hour test period must be used regardless of the flowing time in the 24 hour period. On wells which are stop-cocked, both the closed-in casing pressure at the beginning of the test period and the closed-in casing pressure at the conclusion of the test must be shown and properly identified on the report. The closed-in casing pressure at the end of the 24 hour test period shall not exceed the closed-in casing pressure at the beginning of the test period by more than six-tenths (0.6) pounds per square inch per barrel of oil produced during the test.

(4) **Gas Lift or Jetting Wells:**

In submitting gas-oil ratio tests for gas lift or jetting wells, the total input and total output gas volumes shall be reported separately. These volumes shall be properly identified and determined by continuous measurement during the test. The volume of gas used in determining the operating gas-oil ratio hereunder shall be the volume remaining after the total input gas has been deducted from the total output volume.

(5) **Pumping Wells:**

In computing the operating gas-oil ratio, the total volume of gas and the total barrels of oil produced during the test period must be used regardless of the pumping time in the test period.

(6) **Definitions:**

Under Status, use the following symbols: F—Flowing, P—Pumping, GL—Gas Lift, SI—Shut in, D—Dead, TA—Temporarily Abandoned, GI—Gas Injection, WI—Water Injection.

Under Pressure, show the stabilized working pressures on the tubing, and casing, at the rate at which the well is tested. The Gas Production listed shall be the total volume of gas produced during the test in thousands of cubic feet (MCF) measured at a base pressure of 15.025 pounds per square inch, absolute, and a standard base and flowing temperature of 60° Fahrenheit; correction to be made for pressure according to Boyle's Law, and for specific gravity according to test made by the Balance Method. All well status and gas-oil ratio tests submitted to the Commission on this form shall be made by a person qualified by training or experience to make such tests. Methods of gas measurement used shall be those prescribed by the State of Arizona Oil & Gas Conservation Commission.

INSTRUCTIONS

Show all data requested for each well separately, and determine the gas-oil ratio according to the following procedure:

(1) General:

- (a) Each well shall have produced its current daily allowable, if such well is capable of producing such allowable, during the 24 hour period immediately preceding the test, and the well shall be producing at the time the actual test begins.
- (b) The volume of gas used in computing the gas-oil ratio and reported as being produced during the test (except tests on gas lift or jetting wells) shall be the total volume of gas produced from the well in the test period. This total volume of gas shall include all gas withdrawn from the casing as well as that produced through the tubing.
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In computing the operating gas-oil ratio, the total volume of gas and the total barrels of oil produced during the test period must be used regardless of the pumping time in the test period.

(6) Definitions:

Under Status, use the following symbols: F—Flowing, P—Pumping, GL—Gas Lift, SI—Shut in, D—Dead, TA—Temporarily Abandoned, GI—Gas Injection, WI—Water Injection.

Under Pressure, show the stabilized working pressures on the tubing, and casing, at the rate at which the well is tested. The Gas Production listed shall be the total volume of gas produced during the test in thousands of cubic feet (MCF) measured at a base pressure of 15.025 pounds per square inch, absolute, and a standard base and flowing temperature of 60° Fahrenheit; correction to be made for pressure according to Boyles Law, and for specific gravity according to test made by the Balance Method. All well status and gas-oil ratio tests submitted to the Commission on this form shall be made by a person qualified by training or experience to make such tests. Methods of gas measurement used shall be those prescribed by the State of Arizona Oil & Gas Conservation Commission.

#146

sample A-1

T40N R 29E SEC 7 FTGE 660FSL 660FEL
 ARIZONA, APACHE CO. WELL NO. 1 NAVAJO #7
 ATLANTIC REFINING CO. *near of Co. 6019 DE*
 CLASS & PROP DEPTH WILCOAT 5600' DEVONIAN TEST *ELEV 60' 51' 3" 66260F*

TD & FORM 5755 PBD 5684
 CONTR *MCSA*
 SPUD 5-24-61 COMP 7-5-61
 ACREAGE DEED.
 PROD ZONE(P)OR(OH)

IP 5-6 Et. 480 + 52.685 wpp
 Gros TSTM 38' 9"

9-5-61 P3080 + 85% SWPD
~~3-30-61 (P3080 FPN 50/35)~~

MISS 5606-16

CASING RECORD
 10 3/4 / 638 / 300
 5 1/2 / 573 / 375
 2 / 5610

FORMATION	LOG	SAMPLE
Hermit	4085	
chin	1213	1235
chin		2035
moon		2070
De ch	2325	2300
Organ Rich	2723	4085
Hermit	4000	
Para A	4620	4640
L.H	4697	
L.C		4860
Mid 'C'		5010
Mid 'C'		5700
MISS		5260
PK B	4753	
L.H	4803	
L.C	4855	
Mid 'C'	5010	
L.H	5200	
Mid 'C'	5390	
MISS	5465	
Orlo	5555	
Devonian	5710	
P.C. Gault	5776	

OPTR. WELL NO. *5776*
 June 12 1961
 φ 372 Expl - Oil
 φ 510 MISS
 Tb 2385 φ on bridge at 1900 X
 169 1231 φ 4140 4665
 DST 1 2319-2388 13' 650/30" opn 40"
 Sl. Bl dow sli to test Rec 1550' andy fr wtr.
 FP 540-650. F 5' 650/30" HP 1125
 Paradox 35' Right to dry Mesa Discovery
 16-16 1957 TD 5187 prop to Run DST #3 φ 5173
 DST #2 4715-36 (lower A) 13' 650/30"
 Rec 30' mud FP 15. F 5' 650/35" HP 2000-2270

146

3

DST 3 5059-5107 15ip 1435/30" opn 82"
6d blow imm. GTS 6" F@ rate of 650 MCFD
lost 70" 3/4 ch Fp 55-95 F sip 1435/50"
Hp 2045-2020

JUN 23 1961 TO 5605 to core ahead.

DST 4 5250-5267 15ip 1505/30" opn 75"
GTS 3" flowed @ rate of 712 MCFD after 15"
Fp 70-110 F sip 1480/30" Hp 2730-2705

1 5583-86 Rec 3

3' dolo, 1 1/2 gr, fix, Scot ppp, str, odor, fluor

2 5586-95 Rec 5

2' dolo, 1 1/2 gr, v f-m xlu, fracs bldg oil
6' dolo, d.d. lite, sli to no fluor

3 5595-5605 Rec 9

5' dolo, gr, v fix, stks 9 1/2-9 3/4 sh.
Scot ppp, sli bldg, gd odor & fluor

3' dolo, gr, fix, gd - excellent vuggy por
bldg oil, gd str, odor, fluor

1' dolo, gr, fix, fracs, Scot vuggy por,
gd str, odor, sli bldg

DST 5 5575-5605 15ip 1520/30" opn 2"
St blow imm cont 70. GTS 3" sli 903
odor (non flom) 500 MCFD Rec 50 069 CM
Fp 40-65 F sip 1520/1 Hp 2965-2925

JUN 30 1961

TO 5785 PR 5686 Subq.

311-787A
 200 ft
 #1 7-40 N-39E Apache Co
 4.42 5605-12 Rec 4 1/2 Arizona
 1' dete. no get. f-m. sh. abund frags.
 f-c. pr. 3/4" vug per. bldg oil, str. dete. flour.
 3/4" dete. no get. f-m. sh. fr. exact vug per
 f-c. perm. bldg oil. gd str. dete. flour.
 d 5 5617-39 Rec 2 7/8
 14% per 16' dete. gray. v. fi. to firm. gd vug
 per. Scot. rot. frags. bldg oil thru' vug.
 gd. sider. & flour.
 10' as above. Scot. bldg oil & flour.
 7' - - - faint str. & dull flour.
 approx. wtr wet.
 D-T #6: 5606-39 151 1530/40"
 cap 3' wk blow inc. to
 str. blow in 30" remained constant
 Rec 180' free oil 35% gty 120' oil
 cut mod. @ 640. 5 li silty oil cut mod.
 F.P. 70-370 F.S. 1515/55"
 H.P. 2910-2915.
 56/5604-18
 Sub & Rec lead + 7 1/2 BN fluid
 Sub 3/4 to 1 1/2 BF pH 1-1 1/2% mud.
 8% wtr (59cc ppm) remainder
 new oil.
 JUN 30 1961 JUL 6 1961
 TD 5705 PB 5606 + 249.
 Spot 250 MCH
 Acid perf 5600-18 w/1000 Ret
 Swb to 2000', started flowing
 = 2 1/2 BF/4 1/2. 8% AW 32% oil
 dist 3/8 cc sep 600-175 dried
 Swb 8.5 oil 1-2% BS @ AW
 Swb 4.8 BF 95-98% SW
 K.O. F 16.80 149 85w/1'
 Sp 5600-15159
 Ret perf 5606-16 ✓
 Acid 5606-16 w/1000 Ret
 TD 5785 PB 5686 SD w/3 PU
 Swb 14.7 RC 716.2 BS w/24
 FL 4000-4200.
 JUL 21 1961
 JUL 25 1961

5-146

SE-707A

AUG 4 1951

AUG 11 1951

TD 5785 PB 5686 POT
P 8880 + 40% SW / 24'

AUG 18 1951

TD 5785 PB 5686 POT
P 5580 + 37B SW / 24'

AUG 25 1951

TD 5785 PB 5686 POT
P 92BF / 24 40% SW

SEP 1 1951

SEP 8 1951

1951 8 10 10 10 10 10

146

NET WELL COMPLETION
(OFFICIAL COMPLETION GAUGE)

Date of First Production Test June 27, 1961 Date of Completion Gauge July 5, 1961

Total Oil saved while testing well prior to the date of the official completion gauge _____

600 Barrels. To small to
Production Gauge on 24 Hour Basis 143 Bbl. Oil; 41 % Water; measure MCF Gas.

The undersigned certifies that the Rules and Regulations of the Commissioner have been complied with except as noted above, and that the transporter('s) authorized to transport the percentage of Oil and/or Gas produced from the above described drilling unit, and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Commissioner.

Executed this the 19th day of January 19 62.

The Atlantic Refining Company
(Company or Operator)

LaRoy Knott Dist. Prod. Supervisor
(Affiant) (Title)

STATE OF New Mexico

COUNTY OF San Juan

Before me, the undersigned authority, on this day personally appeared _____

LaRoy Knott, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 19th day of January 19 62.

Adith Amelia dimit

Notary Public In and For
San Juan County
State of New Mexico

Approved R. Keith Walden, Chairman
COMMISSIONER

BY: A. A. Jerome

(FOLLOW INSTRUCTIONS IN INSTRUCTION SHEET)

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

Form O & G 57
Sheet No. 1

PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL OR GAS FROM DRILLING UNIT

1. Form Prescribed Under Oil and Gas Conservation Act 1951
2. This form is to be completed on both sides.

Lease Navajo 7 Well No. 1 Field Toh Atin Area

Sec. 7 Twp. 40N Rge. 29E Cty. Apache Pool Miss.

Producer The Atlantic Refining Company

Address all correspondence concerning this form to: The Atlantic Refining Company

Street Box 2197 City Farmington State New Mexico

The above named producer hereby authorizes McWood Corporation
(Name of Transporter)

Whose principal place of business is Oil & Gas Building Abilene Texas
(Street) (City) (State)

And whose Field Address is: Box 1702 Farmington

to transport 100 % of the Oil produced from the Drilling Unit designated above until further notice.

Other transporters transporting Oil or Gas from this drilling unit are:

<u>None</u>	<u>%</u>	<u>%</u>
(Name of Transporter)		(Name of Transporter)

REMARKS:

The notice is to request change in transporter from Ray Smith Crude Oil, Inc. to
McWood Corporation as shown above.

(OVER)

NET WELL COMPLETION
(OFFICIAL COMPLETION GAUGE)

Date of First Production Test June 27, 1961 Date of Completion Gauge July 5, 1961

Total Oil saved while testing well prior to the date of the official completion gauge _____
600 Barrels.

Production Gauge on 24 Hour Basis 143 Bbl. Oil; 41 % Water; ^{too small to} ~~measure~~ MCF Gas.

The undersigned certifies that the Rules and Regulations of the Commissioner have been complied with except as noted above, and that the transporter('s) authorized to transport the percentage of Oil and/or Gas produced from the above described drilling unit, and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Commissioner.

Executed this the 6th day of July 19 61.

The Atlantic Refining Company
(Company or Operator)

L. B. Kelly Dist. Drlg Prod. Supr.
(Affiant) (Title)

STATE OF WYOMING

COUNTY OF NATRONA

Before me, the undersigned authority, on this day personally appeared L. B. Kelly, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 6th day of July 19 61.

My commission expires:

May 10, 1962

Louise Rogers
Natrona County, State of Wyoming
Notary Public In and For

Approved _____
COMMISSIONER

BY: _____

(FOLLOW INSTRUCTIONS IN INSTRUCTION SHEET)

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

Form O & G 57
Sheet No. 1

PRODUCERS CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL OR GAS FROM DRILLING UNIT

1. Form Prescribed Under Oil and Gas Conservation Act 1951
2. This form is to be completed on both sides.

Lease Navajo 7 Well No. #1 Field Toh Atin Area

Sec. 7 Twp. 40 N Rge. 29 E Cty. Apache Pool Miss.

Producer The Atlantic Refining Company

Address all correspondence concerning this form to: Box 520

Street _____ City Casper State Wyoming

The above named producer hereby authorizes Ray Smith Crude Oil Inc.,
(Name of Transporter)

Whose principal place of business is 300 Simmons Bldg Dallas Texas
(Street) (City) (State)

And whose Field Address is: Unknown

to transport 100 % of the Oil produced from the Drilling Unit designated above until further notice.

Other transporters transporting Oil or Gas from this drilling unit are:

<u>None</u>	<u>%</u>	<u>%</u>
(Name of Transporter)		(Name of Transporter)

REMARKS:

(OVER)

146 13

Form 9-331b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4
Approval expires 12-31-60.
Indian Agency Window Rock
Allottee Navajo - Tribal
Lease No. 14-20-603-1328

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

U. S. GEOLOGICAL SURVEY
WASHINGTON, D. C. 20540

July 5, 19 61

Well No. Navajo 7-81 is located 660 ft. from SW line and 660 ft. from E line of sec. 7

SE SE Section 7 T. 40N R. 29E SR and GM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the ground ~~water flow~~ above sea level is 6015 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Perforated 5 1/2" casing 5604-5618 Schl = 5603-5617 OR with 56 jets.
Acid Job #1 - Acidised perforations 5604-5618 Schl. with 250 gals mud acid followed by 1000 gals retarded HCL. FPD = 1200#, then injection pressure dropped to 0# during part of treatment. Avg Inj rate = 0.9 BPM, Max Inj rate 1 BPM. Final treating pressure 900#. Job complete @ 2:30 P.M., 6-28-61.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Atlantic Refining Co.
Address Box 520
Casper, Wyoming
By W. Key
Title Dist. Drlg Prod Supr.

14617

Form 9-331 b
(April 1952)

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4
Approval expires 12-31-60.

Indian Agency Window Rock

Allottee Navajo - Tribal

Lease No. 11-20-602-1328

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

RECEIVED
JUL 10 1961
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

July 5, 19 61

Well No. Navajo 7-71 is located 660 ft. from EN line and 660 ft. from E line of sec. 7

SE SE Section 7 T = 10N R = 29 E SR and GM
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat Apache Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~static level~~ ^{ground} above sea level is 6015 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Squeezed perforations 5604-5618 with 25 sacks regular mix pozmix cement. Max and final press. 4800#. Formation did not show any break while squeezing but started taking cement at 2400#. Job complete at 6:30 A.M., 7-1-61. Perforated 5606-5616 Schl = 5605-5615 GR with 40 jets. Acid Job #2 - Acidized perforations 5606-5616 with 1000 gals retarded HCl. Max inj. rate 0.41 BMP, max inj Press. 1400#. Job complete 4:30 P.M., 7-3-61.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Atlantic Refining Co

Address Box 520

Casper, Wyoming

By [Signature]

Title Dist Drilg Prod Supr.

146 18

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

FORM O&G 54

Form Prescribed Under Oil and Gas Conservation Act of 1951

SHOOTING OR TREATING REPORT

(File Report on This Form Within 30 Days After Shooting or Treating a Well)

Operator The Atlantic Refining Company Field Wildcat
Pool _____
County Apache

Lease Name Navajo 7 Well No. 1

Section 7 Township 40 N Range 29 E

Date Shot or Treated July 3, 19 61

Daily Production Before Treating or Shooting: Oil 33 BBl.; Water 3 BBl.

Daily Production After Treating or Shooting: Oil 143 BBl.; Water 102 Bbl.

Producing String of Casing (Set or Cemented at) 5731.37 Ft.

Depth to Top of Producing Sand or Formation 5460 Ft.

Formation Shot or Treated: Top-Ft. 5606 Bottom-Ft. 5616

Size of Shot Used: _____ Qts. Amount of Acid Used: 1000 Gals.

Remarks Squeezed perforations 5604-5618 with 25 sacks regular mix posmix cement.

Max. and final Press. 4800#. Reperforated 5606-5616 with 40 jets.

Acid Job #2 - Acidize perforations 5606-5616 with 1000 gals retarded HCl.

L.B. Huey
(Representative of Operator of Well)

5/12/58

146 19

file

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION
PHOENIX, ARIZONA

FORM O&G 54

Form Prescribed Under Oil and Gas Conservation Act of 1951

SHOOTING OR TREATING REPORT

(File Report on This Form Within 30 Days After Shooting or Treating a Well)

Operator The Atlantic Refining Company Field Wildcat
Pool _____
County Apache

Lease Name Navajo 7 Well No. 1

Section 7 Township 40 N Range 29E

Date Shot or Treated June 28, 19 61

Daily ^{rate} Production Before Treating or Shooting: Oil 8 Bbl.; Water ? Bbl.

Daily Production After Treating or Shooting: Oil 93.6 Bbl.; Water 115.2 Bbl.

Producing String of Casing (Set or Cemented at) 5731.37 Ft.

Depth to Top of Producing Sand or Formation 5460 Ft.

Formation Shot or Treated: Top-Ft. 5604 Bottom-Ft. 5618

Size of Shot Used: _____ Qts. Amount of Acid Used: 1250 Gals.

Remarks This well was perforated 5604-5618 Schl w/ 4 jet shots/ft. On initial
swab test well failed to produce commercial quantities of oil Open perforations were
then treated w/250 gals Mud Acid followed by 1000 gals retarded HCl.

Esney
(Representative of Operator of Well)

5/12/58

146 20

OIL AND GAS CONSERVATION COMMISSION
STATE OF ARIZONA

Form OG 51

Form Prescribed Under Oil and Gas Conservation Act of 1951

NOTICE OF INTENTION TO DRILL NEW WELL

This notice and surety bond must be filed and permit must be granted before drilling begins

Oil and Gas Conservation Commission

Casper, Wyoming ~~Arizona~~ 5/15 1961

In compliance with Statewide Rule 3, notice is hereby given that it is our intention to commence the work of drilling well No. 1 - Navajo "7" #1 Sec. 7,

Twp. 40-N, Rge. 29-E B. & M., Wildcat Field
Apache County.

Legal description of lease Contract No. 14-20-603-4328, T-40-N, R-29-E G & S RM, Sections
(attach map or plat to scale)
5,6,7, 8 All Apache County, Arizona

Location of Well: 660' from the South line and 660' from the East line being in the Center
(Give exact footage from section corners or other

SE 1/4 SE 1/4, Section 7, T-40-N, R-29-E S.R. & G.M. Apache County, Arizona
legal subdivisions or streets)

Proposed drilling depth 5600 feet. Acres in drilling unit 40

Has surety bond been filed? yes. Is location a regular or exception to spacing rule? regular.

Elevation of ground above sea level 6015' feet.

All depth measurements taken from top of _____
(Derrick, floor, Rotary Table or

Kelly Bushing which is ? feet above the ground.
(Kelly Bushing)

PROPOSED CASING PROGRAM

Size of Casing Inches A. P. I.	Weight	Grade & Type	Top	Bottom	Cementing Depth
<u>10 3/4</u>	<u>32.75</u>	<u>H-40</u>	<u>surface</u>	<u>600'</u>	<u>600'</u>
<u>5 1/2</u>	<u>14</u>	<u>J-55</u>	<u>surface</u>	<u>TD</u>	<u>TD</u>

AFFIDAVIT:

I hereby certify under the penalty of perjury, that the information contained and statements herein made are to the best of my knowledge and belief, true, correct and complete.

The Atlantic Refining Company
(Applicant)

Application approved this 17th day of May 1961.

Permit No. 146
3-62 1/10/58

Anthony T. DeDeus
Oil and Gas Conservation Commission

146 21

COMPANY THE ATLANTIC REFINING COMPANY

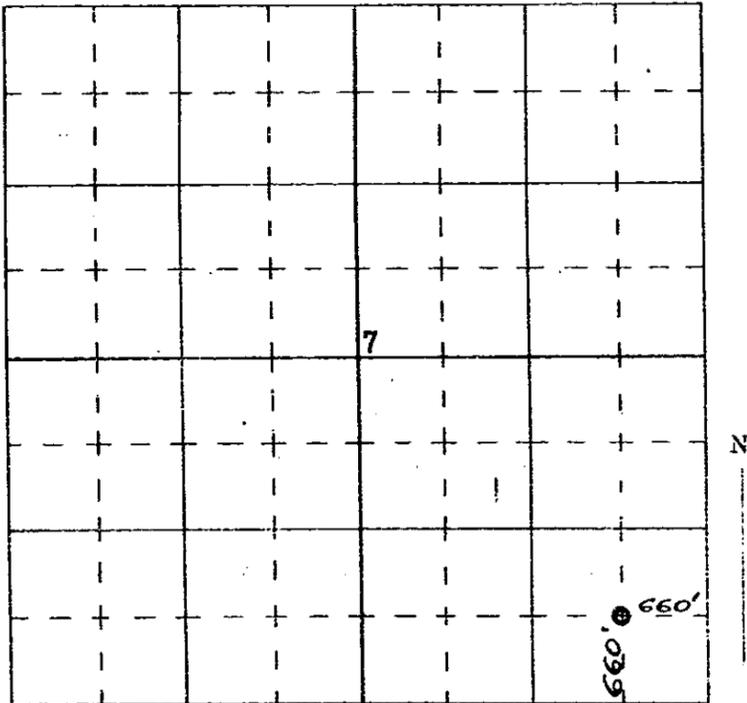
Well Name & No. NAVAJO 7 Well No. 1 Lease No. _____

Location 660' FROM THE SOUTH LINE AND 660' FROM THE EAST LINE.

Being in the CENTER SE $\frac{1}{4}$ SE $\frac{1}{4}$

Sec. 7 T 40 N. R 29 E. S. R. & G. M. APACHE COUNTY, ARIZONA

Ground Elevation 6015.0 UNGRADED



Scale — 4 inches equals 1 mile

Surveyed _____ 12 MAY, 19 61

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



James P. Leese
 Registered Land Surveyor.
 James P. Leese
 Arizona Reg. No. 1849

SAN JUAN ENGINEERING CO., FARMINGTON, NEW MEXICO

LIABILITY UNDER THIS BOND MAY NOT BE TERMINATED WITHOUT WRITTEN PERMISSION OF THIS COMMISSION.

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 8027-49-31

That we: The Atlantic Refining Company
of the County of: Dallas in the State of: Texas
as principal, and Federal Insurance Company
of 90 John Street, New York, New York,
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the 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 or stratigraphic purposes ~~in and upon the following described land situated within the State, to wit:~~

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

CANCELLED
DATE 10-27-65

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.

Penal sum of Twenty-Five Thousand and No/100 Dollars - - - - - (\$25,000.00) - - - - -

Witness our hands and seals, this 1st day of October, 1965.

ATTEST: [Signature]
Assistant Secretary
By Boone Macaulay
Boone Macaulay, Assistant Vice President

Witness our hands and seals, this 1st day of October, 1965.

Countersigned by: [Signature]
E. J. O'Salley
[Signature]
M. Kenneth Mahoney - Attorney-in-Fact

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 Date 10-27-65
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. _____

Certified Copy of
POWER OF ATTORNEY

Know all Men by these Presents, That the FEDERAL INSURANCE COMPANY, 90 John Street, New York, New York, a New Jersey Corporation, has constituted and appointed, and does hereby constitute and appoint

John S. Maxson
George W. Massie
E. Kenneth Mahoney
of
Dallas, Texas

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds of either of the following classes, to-wit:

1. Bonds on behalf of contractors in connection with bids, proposals or contracts to or with the United States of America, any State or political subdivision thereof or any person, firm or corporation.
2. Surety Bonds to the United States of America or any agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; License and Permit bonds or other indemnity bonds under the laws, ordinances or regulations of any State, City, Town, Village, Board or other body or organization, public or private; bonds to Transportation Companies, Lost Instrument bonds, Lease bonds, Workmen's Compensation bonds, Miscellaneous Surety bonds and bonds on behalf of Notaries Public, Sheriffs, Deputy Sheriffs and similar public officials.
3. Bonds and Undertakings (other than Fiduciary Bonds) filed in any suit, matter or proceeding in any Court, or filed with any Sheriff or Magistrate, for the doing or not doing of anything specified in such Bond or Undertaking, in which the penalty of the bond or undertaking does not exceed the sum of Fifty Thousand Dollars (\$50,000.00).

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 1st day of February 19 64.

FEDERAL INSURANCE COMPANY

By

Frederick C. Gardner

Frederick C. Gardner
Vice President

Davis Quinn

Davis Quinn
Assistant Secretary



STATE OF NEW YORK

County of New York

ss.:

On this 1st day of February 19 64, before me personally came Davis Quinn, to me known and by me known to be Assistant Secretary of the FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney and the said Davis Quinn being by me duly sworn, did depose and say that he resides in the City of New York, in the State of New York; that he is Assistant Secretary of the FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; that he is acquainted with Frederick C. Gardner and knows him to be Vice President of said Company, and that the signature of said Frederick C. Gardner subscribed to said Power of Attorney is in the genuine handwriting of said Frederick C. Gardner and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Acknowledged and Sworn to before me
on the date above written.

Marion J. McGrath

Notary Public
MARION J. McGRATH
NOTARY PUBLIC, State of New York
No. 24-7837850
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1964



CITY AND COUNTY OF NEW YORK: ss

I, the undersigned, Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on March 11, 1953 and amended January 2, 1964 and that this By-Law is in full force and effect.

"ARTICLE XIX.

Section 2. All bonds, undertakings, contracts, powers of attorney, and other instruments other than as above, for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice-Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in this section, may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney."

And I further certify that I have compared the foregoing copy of the POWER OF ATTORNEY with the original thereof and the same is a correct and true copy of the whole of said original Power of Attorney and that said Power of Attorney has not been revoked.

And I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, Puerto Rico, and each of the Provinces of the Dominion of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by the laws of the United States.

Given under my hand and seal of said Company at New York, N. Y., this _____ 1st _____ day of

October _____, 19 65

Walter La Forge
Assistant Secretary

September 19, 1966

Federal Insurance Company
Chubb & Son Inc., Manager
Mercantile Securities Building
Dallas, Texas 75201

Attention: Mr. Jerry M. Cox

Re: Federal Insurance Company Bond 8027-49-31
The Atlantic Refining Company, Principal

Gentlemen:

In reply to your letter of September 16, 1966, captioned bond was released by this Commission as of August 9, 1966. You therefore no longer have any liability to this Commission under this bond.

Very truly yours,

John Baunister
Executive Secretary
mr

146

Telephone: Riverside 2-1611

FEDERAL INSURANCE COMPANY

CHUBB & SON INC., Manager



Mercantile Securities Building, Dallas, Texas 75201

SOUTHWESTERN OFFICE

September 16, 1966

Oil and Gas Conservation Commission
Room 202, 1624 West Adams
Phoenix, Arizona 85007

Re: Federal Insurance Company Bond No. 8027-49-31
Atlantic Richfield Company - Blanket Oil Well
Drilling, Casing and Plugging Bond -to-
State of Arizona - Effective: October 1, 1965

Gentlemen:

By his letter of August 8, 1966, Mr. V. A. Waldrep of Atlantic Richfield Company advised you that this bond was no longer required, as there is no production in Arizona, and oil wells drilled by Atlantic have been plugged.

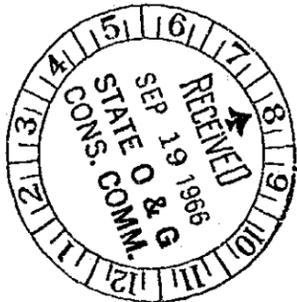
This being the case, will you please confirm that our liability is terminated as of October 1, 1966.

Thank you for your assistance.

Yours very truly,

Jerry M. Cox
Jerry M. Cox

JMC:jw



ATLANTIC

Atlantic Richfield Company, formerly

THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS

ATLANTIC BUILDING
DALLAS, TEXAS
August 8, 1966

NORTH AMERICAN PRODUCING GROUP
W. J. WESTERLAGE, ACCOUNTING MANAGER

MAILING ADDRESS
P. O. BOX 2819
DALLAS, TEXAS 75221

Oil and Gas Conservation Commission
Room 202, 1624 West Adams
Phoenix, Arizona, 85007

Re: Federal Insurance Company
Bond No. 8027-49-31
Atlantic Richfield Company (AR Bond
123)
(Formerly: The Atlantic Refg. Co.)

Gentlemen:

This is to advise that we no longer require subject bond. By letter dated August 4, 1966 from Mr. Fred N. Millsap of our Roswell Land Department, we have been advised that Atlantic Richfield has no production in Arizona and that all wells drilled by Atlantic have been plugged. A copy of said letter is attached for your reference.

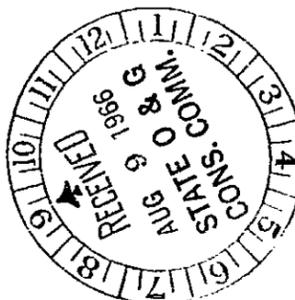
Please accept this letter as a cancellation of subject bond and advise us and our insurer of your approval.

Yours very truly,

V. A. Waldrep
V. A. Waldrep, Supervisor
Payments Unit

cc: Maxson-Mahoney-Turner
3601 Cedar Springs
Dallas, Texas 75216

CW:em



INTERNAL CORRESPONDENCE

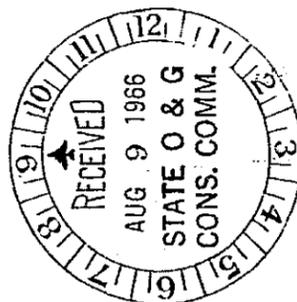
To: Mrs. Cathey Wrights - Dallas
Subject: Contract AR-Bond 123

From: Fred N. Millsap, Jr. - Roswell
Date: August 4, 1966

Our drilling and production department advises that we no longer need subject bond. We have no production in Arizona and all wells drilled by Atlantic have been plugged.

Fred N. Millsap, Jr.

FNM/dlm



146

October 27, 1965

The Atlantic Refining Company
P.O. Box 2819
Dallas, Texas 75221

Attention: Mr. B. P. Sutherland

Re: Federal Insurance Company
Statewide blanket bond 8027 49 31

Gentlemen:

Attached is copy of captioned bond which has been approved by this Commission as of this date.

Since this bond is now in full force and effect, this letter will constitute authority from this Commission to terminate Federal Insurance Company Bond 8005-53-04 effective on this date.

Your cooperation is very much appreciated.

Yours very truly,

John Bonister
Executive Secretary
nr

cc: Hanson-Mahoney-Turner
3601 Cedar Springs
Dallas, Texas 75219

146

BOND

Bond No. 8005-58-04

KNOW ALL MEN BY THESE PRESENTS

That we The Atlantic Refining Company

of the County of Dallas in the State of Texas

as Principal, and Federal Insurance Company, a New Jersey Corporation

of 90 John Street, New York 38, New York
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona

as surety, are held and firmly bound unto the 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 condition of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

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

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.

CANCELLED

Penal sum of Ten Thousand Dollars (\$10,000)

Witness our hands and seals, this 24 DATE 10-27-65 day of April, 1961

ATTEST:

Mary C. Drayer
Assistant Secretary

THE ATLANTIC REFINING COMPANY

By W. Dow Ham
Principal
W. Dow Ham, Vice President

Witness our hands and seals, this 24 day of April, 1961

FEDERAL INSURANCE COMPANY

M. Kenneth Mahoney
M. Kenneth Mahoney, Attorney-in-Fact

(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 _____
Date _____ STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

STATE OF NEW YORK

I, the undersigned Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true and correct copy of the By-Laws of the said Company as amended from time to time, and that the same are in full force and effect.

ARTICLE IV - EXECUTION OF POWERS, BONDS, ETC.

Section 2. All bonds, undertakings, contracts, powers of attorney and other instruments of this kind, above for and on behalf of the Company which shall be authorized by law or resolution of the Board of Directors, may and shall be executed in the name and on behalf of the Company either (1) by the President or Vice President or an Assistant Vice President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that:

(c) any officer or officers, agent or agents, attorney in fact or attorneys in fact designated in any resolution of the Board of Directors or Executive Committee adopted either before or after the making of this By-Law or in any power of attorney executed as provided for in this section may execute in the manner prescribed in such resolution or power of attorney or authority any such bond, undertaking or other obligation which he or they shall be empowered to execute, by such resolution or power of attorney or authorization.

And I further certify that I have compared the foregoing copy of the POWER OF ATTORNEY with the original thereof and the same is a correct and true copy of the whole of said original Power of Attorney, and that said Power of Attorney has not been revoked.

And I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, Puerto Rico, and each of the Provinces of the Dominion of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by the laws of the United States.

Given under my hand and seal of said Company at New York, N. Y., this 24th day of

April 1961

Assistant Secretary

INSURANCE
 Maxson
 Kenneth Mahoney, C.U.
 George W. Massie
 Edward T. Brecht
 Clark L. Lohr, C.P.C.U.
 Michael K. Mahoney
 David O. Turner
 Herbert S. Harvey, C.P.C.U.

DUPLICATE INVOICE

MAXSON • MAHONEY • TURNER
Insurance Agents • Mortgage Bankers
 3601 CEDAR SPRINGS, DALLAS, TEXAS 75219 • LA 1-1113

MORTGAGES
 Kenneth D. Dealey
 Arthur Z. Barnes, Jr.
 Daniel M. Mahoney
 E. Hal Dickson
 Bob W. Porter
 INVESTMENTS
 John L. Hendry III M.A.I.

No. 00215

DATE April 24, 1965

PRODUCER **M. Kenneth Mahoney**

IN ACCOUNT WITH

The Atlantic Refining Company
 Post Office Box 3819
 Dallas, Texas



"INSURE IN Sure INSURANCE"
 The Atlantic Refining Company

PROPERTY INSURED
 Market Drilling, Casing and Plugging Bond to
 State of Arizona (AR Bond No. 123)

POLICY IN
 NAME OF

DATE	COMPANY	POLICY NO.	COVERAGE	AMOUNT	TERM	PREMIUM
65	Federal	8005-58-04	Bond	\$10,000.00	1 Yr.	\$50.00

10-67-0100-160-3320 4-558
 APR 24 1965

POLICY NO. Anniversary Premium
 continuous in Force

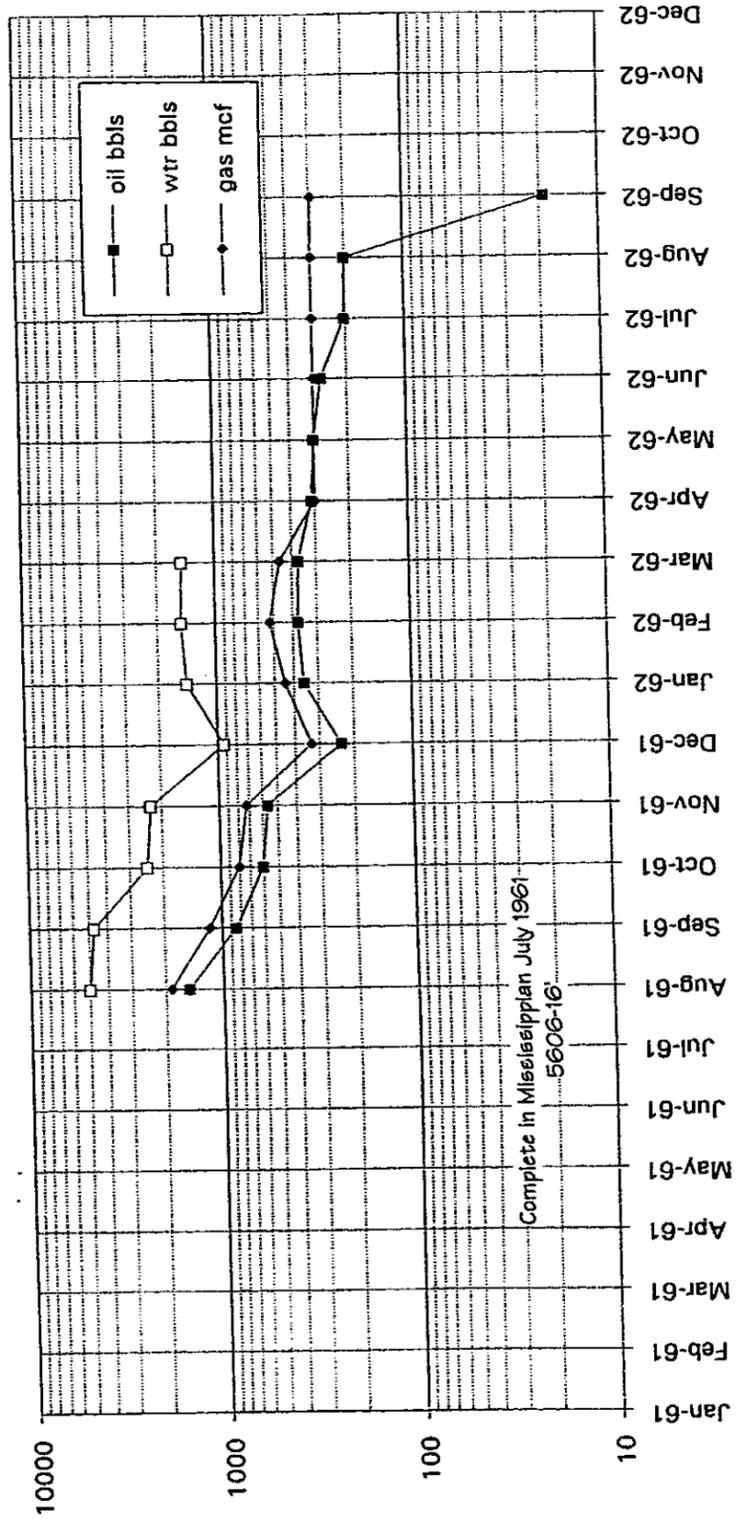
DUPLICATE STATEMENT



INSURANCE PROGRAMS FOR COMMERCIAL, INDUS-
 TRIAL AND PERSONAL NEEDS. WE FURNISH FREE BEST'S
 AVAILABLE REPORTS ON INSURANCE COMPANIES.

AK Bond #23 SINCE 1915

MONTHLY PRODUCTION AT ATLANTIC REFINING 1 NAVAJO-7 (146), ARIZONA: AUG 1961 - SEP 1962
 se se 7-40n-29e, Black Rock Field, Apache County



MONTHLY PRODUCTION AT ATLANTIC REFINING 1 NAVAJO-7 (146), BLACK ROCK FIELD, ARIZONA
 (per SLR audit of monthly producer's reports 8/61 -- 9/62)
 se se 7-40n-29e, Apache County

DATE	oil bbls	wtr bbls	gas mcf	oil ytd bbls	wtr ytd bbls	gas ytd mc	oil cum	wtr cum	gas cum	comments
Jan-61										
Feb-61										
Mar-61										
Apr-61										
May-61										
Jun-61										
Jul-61	1507	5025	1862	1507	5025	1862	1507	5025	1862	Complete in Miss.
Aug-61	851	4710	1164	2358	9735	3026	2358	9735	3026	(5606-16')
Sep-61	605	2420	802	2963	12155	3828	2963	12155	3828	
Oct-61	567	2268	726	3530	14423	4554	3530	14423	4554	
Nov-61	233	932	330	3763	15355	4884	3763	15355	4884	
Dec-61	355	1420	442	355	1420	442	4118	16775	5326	
Jan-62	375	1500	525	730	2920	967	4493	18275	5851	
Feb-62	370	1480	461	1100	4400	1428	4863	19755	6312	
Mar-62	312		300	1412		1728	5175	19755	6612	est gas mcf to match
Apr-62	301		300	1713		2028	5476	19755	6912	prod summary
May-62	272		300	1985		2328	5748	19755	7212	
Jun-62	204		300	2189		2628	5952	19755	7512	
Jul-62	202		300	2391		2928	6154	19755	7812	
Aug-62	19		296	2410		3224	6173	19755	8108	
Sep-62										
Oct-62										P&A 6/12/64
Nov-62										
Dec-62										

33



Oil and Gas Conservation Commission

STATE OF ARIZONA

5150 N. 16th STREET, SUITE B-141
PHOENIX, ARIZONA 85016
PHONE: (602) 255-5161

BEFORE THE OIL AND GAS CONSERVATION COMMISSION
OF THE STATE OF ARIZONA

In the matter of the Hearing called
by the Oil and Gas Conservation
Commission of the State of Arizona
for the purpose of considering:

CASE NO. 62
ORDER NO. 56

The application of Chuska Energy Company
to establish a rule for 160-acre spacing
in the Black Rock Field, Apache County,
Arizona

ORDER OF THE COMMISSION

This cause was considered at 10:05 A.M. on September 15, 1989 at Phoenix, Arizona by the OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF ARIZONA, hereinafter referred to as the COMMISSION.

The COMMISSION, a quorum being present, having considered the facts presented and being fully advised in the premises, finds as follows:

FINDINGS:

(1) THAT the COMMISSION has jurisdiction of the subject matter thereof, pursuant to ARS 27-504 and 27-516 A.12.

(2) THAT adequate geological and engineering data has been presented to the COMMISSION to conclude that the Paradox formation in the subject area is a pool and a separate common source of supply of gas and associated hydrocarbons.

(3) THAT 640-acre spacing will not adequately drain the reservoir, resulting in waste of the resource.

(4) THAT spacing of less than 160 acres per well would result in drilling of unnecessary wells.

Chuska Energy Company
Page - 2 -

(5) THAT 160 acres is not less than the maximum area that can be effectively drained in an efficient and economical manner by a single well producing gas and associated hydrocarbon from the Paradox formation in subject area.

(6) THAT it is in the best interest of the people of the STATE OF ARIZONA that the application for 160-acre spacing in Black Rock Field, Apache County, Arizona be approved.

THEREFORE the COMMISSION orders:

(1) THAT there be established 160-acre spacing units for the production of gas and associated hydrocarbons in the following area:

T40N-R29E G&SRB&M

Sec 7, W 1/2 and SE 1/4	Sec 18, N 1/2 and SE 1/4
8, S 1/2	20, NE 1/4
9, S 1/2	21, All
15, W 1/2	22, All
16, All	23, SW 1/4
17, All	26, NW 1/4
	27, N 1/2

T40N-R28E G&SRB&M

Sec 1, All	Sec 11, All
Sec 2, All	Sec 12, All

(2) THAT the 160-acre spacing units shall correspond with governmental quarter sections according to the protracted governmental survey of the area.

(3) THAT except as provided in Section 4 below, no gas well shall be drilled closer than 660 feet from the outer boundary of any quarter section, in the area spaced.

(4) THAT the following existing wells are designated as the unit wells for the spacing unit in which they are located even though they are exceptional locations.

O&G Permit #	Name	Spacing Unit
115	Dry Mesa (Texas Pacific) 138-3Navajo	SE 1/4 Sec 2 T40N-R28E
615	Chuska (American Fuels) Black Rock 2 (1Navajo AC)	NE 1/4 Sec 17 T40N-R29E
581	Chuska (Am Fuel, CSO) Black Rock 3 (1-16 Navajo)	NW 1/4 Sec 16 T40-R29E

Chuska Energy Company
Page - 3 -

(5) THAT the producing interval to which this order applies is the Pennsylvanian Paradox formation correlative with the interval 4567 feet to 5558 feet in the well Chuska Energy (American Fuels) Black Rock #2 (1Navajo AC) located in Section 17, T40N-R29E, Apache County, Arizona.

OIL AND GAS CONSERVATION COMMISSION

By J. Dale Nations
J. Dale Nations, Chairman

DATE 9/29/89

(SEAL)

ATTEST:

Daniel J. Brennan
Daniel J. Brennan
Executive Director

DATE October, 1989

September 27, 1971

Monsanto Company
Suite 1102 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80203

Re: Public Records
Atlantic Refining's 1 Navajo-7
SE SE Section 7 - T40N - R29E
Dry Mesa Field
Apache County, Arizona
Our File #146

Dear Mr. Brown:

Enclosed is the various information that you requested
on the above referenced well.

If we can be of further assistance, please advise.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

Enc.

Monsanto

HYDROCARBONS & POLYMERS DIVISION

Monsanto Company
Suite 1102 Lincoln Tower
1860 Lincoln Street
Denver, Colorado 80203
(303) AComa 2-5641

September 21, 1971

Oil & Gas Conservation Commission
State of Arizona
Room 202
164 West Adams
Phoenix, Arizona

Re: Public Records
Atlantic Refining's 1 Navajo-7
SE SE Section 7 - T40N - R29E
Dry Mesa Field
Apache County, Arizona

146

Gentlemen:

I would appreciate if you would please send copies of Form 16, Form 9,
Form 10, and Form 25 of the above well.

Very truly yours,

MONSANTO COMPANY

Donnie E. Brown

Donnie E. Brown

DEB:cz

RECEIVED

SEP 27 1971

O & G CONS. COMM.

ATLANTIC

ATLANTIC RICHFIELD COMPANY
FORMERLY
THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS
September 1, 1966

DOMESTIC PRODUCING DEPARTMENT

MAILING ADDRESS:
P. O. BOX 2197
FARMINGTON, NEW MEXICO
87401



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

Re: Atlantic Refining #7-1 Navajo
Section 7, T-40N, R-29E
Apache County, Arizona

Dear Sir:

One copy each of the logs which were run on this well are attached. These logs were requested in your letter dated August 9, 1966, to Mr. V. A. Waldrep in our Dallas office.

We regret any inconvenience that our delay in sending these logs may have caused.

Yours very truly,

ATLANTIC RICHFIELD COMPANY

B. J. Sartain
B. J. Sartain

BJS/vas

#146

ATLANTIC

JJB

ATLANTIC RICHFIELD COMPANY
FORMERLY
THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS

August 12, 1966

NORTH AMERICAN PRODUCING GROUP
NEW MEXICO - ARIZONA DISTRICT
S. L. SMITH, DISTRICT MANAGER
JACK BIARD, DISTRICT LANDMAN
E. R. DOUGLAS, DISTRICT GEOLOGIST
A. D. KLOXIN, DISTRICT DRG. & PROD. SUP'T.
M. D. ROBERTS, DISTRICT GEOPHYSICIST
W. P. TOMLINSON, DISTRICT ENGINEER
B. R. WARE, DISTRICT ADMINISTRATIVE SUP'V.

SECURITY NATIONAL BANK BLDG.
MAILING ADDRESS
P. O. BOX 1978
ROSWELL, NEW MEXICO 86201

Rocky Mountain Well Log Service
1753 Champa St.,
Denver, Colorado

Dear Sirs:

Will you please send the below specified logs to:

John Bannister
Oil and Gas Conservation Commission
State of Arizona
Room 202
1624 West Adams
Phoenix, Arizona 85007

The Atlantic Refining Company
Navajo 7 #1
Section 7, T40N-R29E
Apache County Arizona
Sonic Log K3703C
Induction Log K3702E

Bill the order to E. R. Douglas, Atlantic Richfield Company,
Box 1978, Roswell, New Mexico 88201.

Thank you.

Richard E. Renner
Richard Renner
for
E. R. Douglas

cc: Mr. John Bannister
Mr. V. A. Waldrep

146

August 9, 1966

The Atlantic Refining Co.
P.O. Box 2819
Dallas, Texas 75221
Attn: Mr. V.A. Waldrep

Re: Federal Insurance Company
Bond No. 8027-49-31
Atlantic Richfield Company (AR Bond 123)
(Formerly: The Atlantic Refg. Co.)

✓ 312 Re: Atlantic Refining #9-1 Hopi
Section 9 T28N R15E
Apache Co., Ariz.

146 ~~AE~~ Re: Atlantic Refining # 7-1 Navajo
Section 7 T40N R29E
Apache Co., Ariz.

Gentlemen:

This will acknowledge your letter of August 8 concerning the captioned bond. Please be advised that this letter constitutes the authority of this Commission that said bond may be cancelled as of August 9, 1966.

In reviewing our files, we note as to the Atlantic # 7-1 Navajo (located in Section 7 T40N R29E, Apache County) that we have not received copies of the various electric logs which your company ran on this well. Would you please furnish us copies of these logs at your earliest convenience?

Yours very truly,

John Bannister
Executive Secretary

cc: Federal Insurance Company
90 John Street
New York, New York

JB:js
146

C
O
P
Y

October 27, 1965

The Atlantic Refining Company
P.O. Box 2819
Dallas, Texas 75221

Attention: Mr. B.F. Sutherland

Re: Federal Insurance Company
Statewide blanket bond 8027 49 31

Gentlemen:

Attached is copy of captioned bond which has been approved by this Commission as of this date.

Since this bond is now in full force and effect, this letter will constitute authority from this Commission to terminate Federal Insurance Company Bond 8005-58-04 effective on this date.

Your cooperation is very much appreciated.

Yours very truly,

John Bannister
Executive Secretary
nr

cc: Maxon-Mahone-Turner
3601 Cedar Springs
Dallas, Texas 75219

146

ATLANTIC

THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870

PETROLEUM PRODUCTS

ATLANTIC BUILDING

DALLAS, TEXAS

October 22, 1965

NORTH AMERICAN PRODUCING DEPARTMENT
EXPLORATION AND LAND DIVISION
B. F. SUTHERLAND, SUPERVISOR
TITLES AND RENTALS

MAILING ADDRESS
P. O. BOX 2819
DALLAS, TEXAS 75221

Oil and Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

Re: Federal Insurance Company
Bond No. 8027-49-31
The Atlantic Refining Company

Gentlemen:

Enclosed is a bond which we are sending to you in the amount of \$25,000. This is to replace our \$10,000 bond which is currently in effect. The change was brought about by the new regulations, effective October 1, 1965.

Please accept this bond and advise us and our insurer of your approval to cancel our \$10,000 bond.

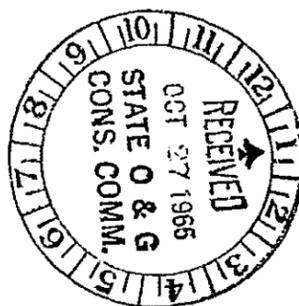
Yours very truly,

B. F. Sutherland

By R. L. Chapman
R. L. Chapman

RLC:nf
Enc.

cc: Maxson-Mahoney-Turner
3601 Cedar Springs
Dallas, Texas 75219



October 11, 1965

The Atlantic Refining Company
P.O. Box 1978
Roswell, New Mexico

Attention: Mr. S.L. Smith, District Manager

Re: Federal Insurance Company Bond 8005 5804

Gentlemen:

As you are aware, the captioned bond in the amount of \$10,000 is on file with this Commission to cover bonding requirements of this Commission.

As a result of the public hearing held September 22, 1965 in Phoenix, Arizona, concerning the Rules and Regulations of this Commission, the bonding requirements have been increased to \$5,000 for a single well and to \$25,000 for a state-wide blanket bond.

As required by law, certified copy of the new Rules and Regulations was filed with the Secretary of State on October 1, 1965, and consequently the new Rules became effective on that date.

This letter is to request that at your earliest convenience you take the necessary steps to increase your state-wide bond to \$25,000. Upon receipt of your new bond your old bond of course may be released.

Your earliest cooperation will be appreciated.

Yours very truly,

John Bannister
Executive Secretary
nr

146

XXXXXXXXXXXXX
XXXX

July 3, 1964

Mr. B. J. Sartain
The Atlantic Refining Company
P. O. Box 2197
Farmington, New Mexico 87401

Re: Atlantic Refining Company Navajo 7 #1
Section 7 - T40N - R29E, Apache County
Our File No. 146

Dear B.J.:

This office has received no letter from Cato in regard to taking the above well over for a water well.

Hope you'll be drilling in a gusher in Arizona soon, I am,

Sincerely,

John K. Petty
Petroleum Geologist

JKP:mkc

JR
ATLANTIC

THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS

June 18, 1964

DOMESTIC PRODUCING DEPARTMENT

MAILING ADDRESS:
P. O. BOX 2197
FARMINGTON, NEW MEXICO
87401

Oil & Gas Conservation Commission of
the State of Arizona
Attn: Mr. John K. Petty
Room 202
1624 West Adams
Phoenix, Arizona 85007

Re: Atlantic Refining Company Navajo 7#1
Section 7 - T40N - R29E
File No. 146

Dear John:

Two copies of Form No. P-15 "Plugging Record" for the subject well are attached. Also, two copies of a letter from Cato Sells, Superintendent Ground Water Development for the Navajo Tribe, are attached. This letter is the only acknowledgement that I have from Mr. Sells indicating that he received the Water Well Acceptance Forms for this well. As you remember, these forms were delivered to Mr. Henry Pohlman with the Navajo Tribe in Farmington, and he sent them to Mr. Sells for approval.

Will you please advise if you have not received the approved forms from Mr. Sells.

Yours very truly,

THE ATLANTIC REFINING COMPANY

B. J. Sartain
B. J. Sartain



THE NAVAJO TRIBE
WINDOW ROCK, ARIZONA

RAYMOND NAKAI
CHAIRMAN, Navajo Tribal Council

NELSON DAMON
VICE CHAIRMAN, Navajo Tribal Council

10 June 1964



The Atlantic Refining Company
P. O. Box 2197
Farmington, New Mexico

Sold

Navajo 7-1

Gentlemen:

This is in reference to a well located 660 from South
660 from East, Section 7, T-40-N, R-29-E.

This letter is to advise that Navajo Tribe will take
this well over for development.

Appreciate your cooperation and help in expediting this
well.

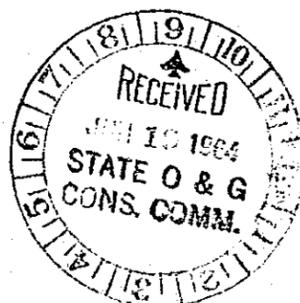
Very truly yours,

THE NAVAJO TRIBE

Cato M. Sells

CATO M. SELLS, Superintendent
Ground Water Development

CMS:ld



8
146

June 11, 1964

Mr. B. J. Sartain
The Atlantic Refining Company
P. O. Box 2197
Farmington, New Mexico 87401

Re: Atlantic Refining Co. Navajo 7 - #1 (File No. 146)
Section 7 - T40N - R29E, Apache County

Dear Mr. Sartain:

Enclosed is one copy of approved Application To
Abandon and Plug the captioned well.

We are awaiting the executed Water Well Acceptance
Form to complete our file.

Yours very truly,

John Bannister
Executive Secretary

JB/mkc
Encl.



THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS

June 5, 1964

DOMESTIC PRODUCING DEPARTMENT

MAILING ADDRESS:
P. O. BOX 2197
FARMINGTON, NEW MEXICO
87401

Oil & Gas Conservation Commission of the
State of Arizona
Attn: John K. Petty
1624 West Street Adams - Suite 202
Phoenix 7, Arizona

Dear John,

Re: Atlantic Refining Co. Navajo 7#1
Section 7-T40-N - R 29E
File No. 146

Two copies of Form No. 15A, Application To Abandon and Plug,
for the subject well are attached. The procedure shown on this
form was approved by Mr. P. T. McGrath with the U.S.G.S. on
June 1, 1964.

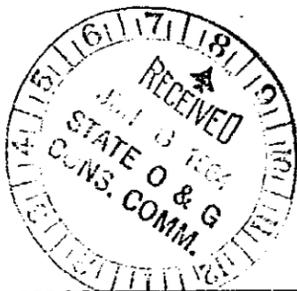
Four copies of the Water Well Acceptance Form were delivered to
Mr. Henry Pohlman, Navajo Oil and Gas Supervisor on June 4, 1964.
Mr. Pohlman sent these forms to Mr. Cato Sells, Window Rock,
Arizona, for approval. I contacted Mr. Sells by phone today and
he indicates that he will approve the forms.

Our Denver office will send the drilling sample information on
this well to your office.

Very truly yours,

B. J. Sartain

B. J. Sartain



ATLANTIC

THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS

June 9, 1964

9JB JKP
NORTH AMERICAN PRODUCING DEPARTMENT
ROCKY MOUNTAIN DISTRICT
S. L. SMITH, MANAGER
C. M. BONAR, GEOLOGICAL
FRANK P. CASTLEBERRY, LAND
R. O. CHILDERS, DRILLING & PRODUCTION
R. P. CURRY, ADMINISTRATIVE
DAVID B. DAVIDSON, GEOPHYSICAL
T. O. DAVIS, ENGINEERING

SUITE 1500
SECURITY LIFE BUILDING
1616 GLENARM
DENVER, COLORADO 80202
268-3741

Oil & Gas Conservation Commission
State of Arizona
Suite 202
1624 West Street Adams
Phoenix 7, Arizona

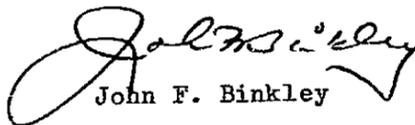
ATTN: Mr. John Petty

Dear Sir:

Please find enclosed an Amstrat log of our well Navajo 7-1, SE, SE, Sec. 7, T-40-N, R-29-E, Apache County, Arizona. We do not have a sample description of this well that you originally requested, but hope that this log will satisfy your requirements.

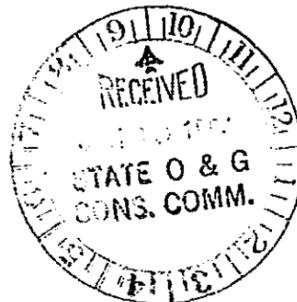
Very truly yours,

THE ATLANTIC REFINING COMPANY


John F. Binkley

cw

cc: B. J. Sartain, Farmington, N. Mex.



May 29, 1964

Mr. Bill Sartin
Atlantic Refining Company
Farmington, New Mexico

Dear Bill:

Re: Atlantic Refining Co. Navajo 7#1
Section 7 - T40N - R29E
File No. 146

Here are the Water Well Acceptance Forms. Have Henry Pohlman, Navajo Oil and Gas Supervisor at Farmington, sign this accepting your well as a water well. I believe he is the one and if he is not, he will direct you to the proper authority to sign this acceptance.

Very truly yours,

John K. Petty
Petroleum Geologist

JKP:mkc

Encl.

THE ATLANTIC REFINING COMPANY
PETROLEUM PRODUCTS
DALLAS, TEXAS

ADDRESS REPLY TO:
P. O. BOX 520
CASPER, WYOMING

DOMESTIC PRODUCING DEPARTMENT

September 10, 1962
P. O. Box 2197,
Farmington, N.M.

Oil & Gas Conservation Commission
Attention: John K. Petty
State of Arizona
3500 N. Central Suite 221
Phoenix, Arizona

RE: Atlantic Refining Company
Well: Navajo 7 #1 Dry Mesa Field
660' FSL & 660' FEL, Section 7,
T-40-N, R-29-E, Apache Co., Arizona

Dear Mr. Petty:

I regret taking so long for a follow up letter concerning our conversation regarding commingling of producing zones in this well. At that time, we were considering the possibility of producing the Mississippian oil and Pennsylvanian gas into a common well bore. The purpose of this was to enrich the non-inflammable Mississippian gas enough to eliminate the butane cost for operating pumping engine and heater treater. This method would probably not solve the pumping engine requirement since the gas mixture would not be uniform enough for engine operation. Engine operation amounts to about 70% of total butane cost.

Another alternative was to separate the zones with a packer and produce the Pennsylvanian through the casing. This would require a special packer and two strings of tubing for the Mississippian. One string would be for production and the other a vent string. Such a completion would eliminate butane expense, but we are unable to predict an acceptable payout for the cost of recompletion, with no other outlet for the gas.

A third alternative was to separate the zones with a packer, and run tubing equipped for gas lift. This simple installation would also require commingling since the Pennsylvanian gas would be used to lift Mississippian production. We are still considering this possibility; however, we have not devised an economical method of controlling Pennsylvanian gas production.

In summary, we have practically abandoned hope of being able to produce this well without development of a gas outlet in the area. If some other method is developed, I may wish to contact you again regarding commingling.

I appreciate your time and consideration on the above matter.

Yours truly,
THE ATLANTIC REFINING CO.

B. J. Sartain
B. J. Sartain

BJS:sjc

THE ATLANTIC REFINING COMPANY
PETROLEUM PRODUCTS
DALLAS, TEXAS

*File
O&G Com.*

ADDRESS REPLY TO:
P. O. BOX 520
CASPER, WYOMING

DOMESTIC PRODUCING DEPARTMENT

P. O. Box 2197
Farmington, N.M.
September 6, 1962

State of Arizona
Oil & Gas Conservation Commission
3500 N. Central Avenue
Suite 221
Phoenix, Arizona

RE: Atlantic Refining Company
well: Navajo 7 #1, Dry Mesa
Field 660' FSH, 660' FEL, Section
7 T-40-N, R-29-E, Apache Co,
Arizona

Gentlemen:

This letter is a request for permission to temporarily abandon our Navajo 7 #1 well described above, as I was unable to locate proper state forms for temporary abandonment.

Production from this well has declined to 9 BOPD, 40 BWPD with 14 MCFGD. The produced gas is not flammable, requiring use of butane for heater treater and pumping engine. The treating problem is fairly severe during cool weather requiring excessive amounts of butane. The butane and treating expense plus labor expense for this isolated location is in excess of revenue from the well.

We propose to pull rods and pump, leave tubing and casing in hole and shut in well for temporary abandonment.

Temporary abandonment is requested because of the possibility of a future gas market in the area. Two potential gas zones were open hole tested in the Paradox Formation. These are the Middle "C" Zone (5090'-5104') and the Lower "C" Zone (5206'-5212'). At present, it is not economical to dual complete the well and use Paradox gas to fire the engine and treater. However, if a gas market should develop, we contemplate recompletion in the Paradox Zones, with a possibility of resuming production from the Mississippian above its economic limit.

Will you please return the extra copies of this request to the address shown below?

The Atlantic Refining Company
P. O. Box 2197
Farmington, New Mexico

A brief well history is shown on the next page.

TOTAL DEPTH

5785'

CASING RECORD

10 3/4" O.D. 32.75# H-40 Set at 638' with 30 sacks.
5 1/2" O.D. 15.5# J-55 Set at 5719' with 375 sacks.

PRODUCING HORIZON

Mississippian - Casing perforations 5606'-5616'

LAST PRODUCTION TEST

9 BOPD, 40 BHPD, 14 MCFGD

FIRST PRODUCTION TEST

143 BOPD, 99 BHPD, Gas too small to measure. A
United States Bureau of Mines analysis of the
produced Mississippian Gas is attached.

B. J. Sartain

B. J. Sartain
Drilling and Production Supervisor

Approved 7 Day of Sept 1962

Denied _____ Day of _____ 19____

Oil & Gas Conservation Commission

By: *John K. Pethy*
Petroleum Geologist

BUREAU OF MINES ANALYSIS

Navajo 7 #1

Section 7, T-40-N, R-29-E

Apache County, Arizona

Flow Rate: - 500 MCF

Wellhead pressure: 1100 psig

Producing Stratum: Lower Mississippian (560h')

Date Sampled: 6-30-61, as separator gas produced with oil

MASS SPECTROMETER ANALYSIS

Methane	11.5%	Nitrogen	76.3%
Ethane	1.5	Oxygen	Tr.
Propane	1.3	Argon	0.4
N-Butane	0.4	Helium	5.1
I-Butane	0.3	Hydrogen	0
N-Pentane	0.1	H2S	0
I-Pentane	0.1	CO2	2.9
Cyclo-Pentane	TR.		
Hexanes Plus	TR.		

Calculated gross B.T.U. / cu.ft., dry at 60°F and 30" Mercury - 209

August 29, 1962

Mr. Sartain
The Atlantic Refining Company
P. O. Box 2197
Farmington, New Mexico

Re: Atlantic Refining Company #1 Navajo 7 - Sec. 7,
T40N, R29E, Apache County, Arizona

Dear Mr. Sartain:

In regard to our conversation of a few days ago about the above well being shut in, etc., I would like for you to write a letter to us stating what you believe you may accomplish by opening your gas zone to communicate with your oil zone, thus causing a commingling of the Pennsylvanian and Mississippian oil and gas zones respectively. I'm assuming you have an idea how much it would produce or that you hope it would.

If it is then at all possible, this commission will be agreeable to your wishes, subject to the approval of Mr. P. T. McGrath, District Engineer of the United States Geological Survey and or whoever else has regulatory authority over Navajo Indian Reservation Tribal Lands.

Yours truly,

John K. Petty
Petroleum Geologist

January 24, 1962

The Atlantic Refining Company
P O Box 2197
Farmington, New Mexico

Gentlemen:

The approved copy enclosed of Form O & G 57,
Sheet No. 1 of "PRODUCERS CERTIFICATE OF
COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL
OR GAS FROM DILLING UNIT" is for your files.

Very truly yours,

D. A. Jerome
Executive Secretary

DAJ:rc
enc

July 20, 1961

Mr. L. B. Kelly
The Atlantic Refining Company
P. O. Box 520
Casper, Wyoming

Re: Atlantic Refin. Co. Navajo #1 - 7
Sec. 7, T 40 N, R 29 E, Apache Co.

Dear Mr. Kelly:

This is to acknowledge receipt of Forms O&G 52, Well Completion Report, and Forms O&G 57, Producers Certificate of Compliance and Authorization to Transport Oil. Enclosed are two copies with the proper acknowledgment for your files.

We hope that as the result of this Navajo #1 - 7 we may expect additional applications for permits to drill.

Yours very truly,

Brooks Pierce
Petroleum Geologist

BP:hme
encs 4

P. S. Also enclosed are additional copies of Form O&G 52 per your request.

July 13, 1961

The Atlantic Refinigg Company
P. O. Box 520
Casper, Wyoming

Attention: Mr. L. B. Kelly

Gentlemen:

This is to acknowledge receipt of your report on Form O&G 54 on your Navajo #7 and we are enclosing one carbon copy indicating this acknowledgment.

Also enclosed are 20 Form O&G 54 as you requested.

Yours very truly,

Brooks Pierce
Petroleum Geologist

BP:hme
encs 21

July 6, 1961

State of Arizona
Oil & Gas Conservation Commission

Gentlemen:

Please send an acknowledgment receipt of this report by returning two (2) signed copies to The Atlantic Refining Company.

Would you please send a supply of Form O & G 52.

Thank you,

L.B. Kelly
L.B. Kelly

The Atlantic Refining Company
Box 520
Casper, Wyoming

*Recd
7-14-61
HME*

146

July 6, 1961

State of Arizona
Oil and Gas Conservation Commission
Phoenix, Arizona

Gentlemen: Would you please send us acknowledgment receipt of this well by returning two (2) signed copies to The Atlantic Refining Company, Box 520 Casper, Wyoming.

Thank you,

L. B. Kelly
L. B. Kelly

ck

*Rec'd
7-14-61
HMK*

THE ATLANTIC REFINING COMPANY
PETROLEUM PRODUCTS

ADDRESS REPLY TO:
P. O. BOX 520
CASPER, WYOMING

DOMESTIC CRUDE OIL PRODUCTION

Oil & Gas Conservation Commission
Phoenix, Arizona

July 5, 1961

Gentlemen:

Please send acknowledgment receipt of this report by
returning one signed copy to The Atlantic Refining Company.

Would you please send a supply of form O&G 54 to
the address below.

The Atlantic Refining Company
Box 520
Casper, Wyoming

Thank you,

L.B. Kelly
L.B. Kelly

LBK/ck

May 18, 1961

Mr. A. D. Kloxin
The Atlantic Refining Company
P. O. Box 520
Casper, Wyoming

Re: Your Navajo "7" #1 Well - C/SE SE, Sec.7,
T 40 N, R 29 E, Apache County, Arizona

Dear Mr. Kloxin:

Enclosed for your file are approved copies of
Form OG 51, Notice of Intention to Drill New
Well, on the above described location.

We are also enclosing a receipt in the amount
of \$25.00 covering your drilling permit.

We certainly hope that you have the most success
in the world in this venture because it will
help to stimulate oil activity in the state. If
there is any way that we can be of assistance,
please let us know.

Yours very truly,

Brooks Pierce
Petroleum Geologist

BP:hme
encs



THE ATLANTIC REFINING COMPANY
INCORPORATED 1870
PETROLEUM PRODUCTS

May 15, 1961

DOMESTIC PRODUCING DEPARTMENT
ROCKY MOUNTAIN REGION
BOONE MACAULAY, MANAGER
B. B. COESTER, EXPLORATION MANAGER
A. D. KLOXIN, OPERATIONS MANAGER
T.S. FACE, LAND MANAGER

WYOMING NAT'L. BANK BLDG.

MAILING ADDRESS
P. O. BOX 520
CASPER, WYOMING

Oil and Gas Conservation Commission
State of Arizona
3500 N. Central
Phoenix 12, Arizona

Attention: Mr. D. A. Jerome

Dear Sir:

Enclosed are five copies of our Notice of Intention to Drill the Navajo "7" #1 well in Apache County, Arizona. The surveyor's plats are attached to two copies of this form. Also, we are enclosing our \$25 check and three copies of Form OG 50. Please return the copies of all forms not needed in the enclosed self-addressed envelope.

As this is our first drilling venture in Arizona, there may be instances where we do not file forms correctly or leave out desired information. Please be assured that these omissions, if any, are unintentional and we desire to properly fulfill our obligations to the Oil and Gas Commission. Please bear with any failures on our part and if there are any omissions, call us collect and we will remedy the situation immediately.

We, of course, are hoping to discover producible hydrocarbons and extend our producing activities into the State of Arizona. With this thought in mind, we certainly desire to comply with all rules and regulations to the mutual benefit of both the State and our company.

Very truly yours,

A. D. Kloxin
A. D. Kloxin

bc
Enc.

MARSH & McLENNAN-GOSGROVE & COMPANY
(INSURANCE)

LOS ANGELES
SAN FRANCISCO
PORTLAND
SEATTLE
PHOENIX
SAN DIEGO

VANCOUVER
MONTREAL
TORONTO
CALGARY

HAVANA
CARACAS
LONDON

ALPINE 8-7031
FIRST NATIONAL BANK BUILDING
411 NORTH CENTRAL AVENUE
PHOENIX, ARIZONA
4

April 28, 1961

NEW YORK
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BOSTON
PITTSBURGH
BUFFALO
ATLANTA
CLEVELAND
WASHINGTON
MINNEAPOLIS
DETROIT
ST. LOUIS
INDIANAPOLIS
ST. PAUL
DULUTH
NEW ORLEANS
TULSA
MILWAUKEE

Oil and Gas Conservation Commission
State of Arizona
3500 North Central Avenue
Phoenix, Arizona

Gentlemen:

Enclosed for filing in your office is surety bond in the amount of \$10,000.00 issued in your favor by the Federal Insurance Company for the Atlantic Refining Company of Dallas, Texas. Bond is #8005-58-04 and includes power of attorney and form OG-50.

Yours very truly

G. Buckles
G. BUCKLES

GB:CM
Enclosures
cc Mr. R. L. Chapman
The Atlantic Refining Co.

