[redacted]

CONFIDENTIAL

Release Date: 8-16-75

P-W

[redacted]

DUVAL CORPORATION #46 Santa Fe
SE/SW Sec 9-T19N-R27E, Apache Co.

[redacted]

CONFIDENTIAL

Release Date 8-16-75

P-W

[redacted]

DUVAL CORPORATION #46 Santa Fe 6.23
SE/SW Sec 9-T19N-R27E, Apache Co.

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

Operator: DUVAL CORPORATION	Address: 4715 E. Ft. Lowell Rd., Tucson, Ariz. 85712
Federal, State or Indian Lease Number or name of lessor if fee lease: Santa Fe Pacific RR. Co.	Well Number: 46 / Field & Reservoir:
Location: 335' FSL, 2719' FEL	County: Apache
Sec. TWP-Range or Block & Survey: Sec. 9, T19N, R27E	

Date spudded	Date total depth reached	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) feet	Elevation of casing hd. flange feet
7-30-74	8-11-74		5905	

Total depth	P.B.T.D.	Single, dual or triple completion?	If this is a dual or triple completion, furnish separate report for each completion.
1743'			

Producing interval (s) for this completion	Rotary tools used (interval)	Cable tools used (interval)
	Rotary	

Was this well directionally drilled?	Was directional survey made?	Was copy of directional survey filed?	Date filed
No			

Type of electrical or other logs run (check logs filed with the commission)	Date filed
Gamma Ray - Neutron	9-16-74

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
Surface	10"	8-5/8"	16.90	40	2	None
Protective	6-1/2"	5-9/16"	10.76	1591	None	None

TUBING RECORD

Size in.	Depth set ft.	Packer set at ft.

LINER RECORD

Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Am't. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production	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'ted 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 Senior Geologist of the Duval 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.

September 16, 1974 — Date

Edward A. Montgomery — Signature

RECEIVED
SEP 17 1974
O & G CONS. COMM.

Permit No. 623

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
File One Copy
Form No. 4

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Alluvium	0	10	Sand: lt gry brn, v.f.g.
Chinle	10	1050	Mudstone and Siltstone: various colored; local sandstone beds.
Moenkopi	1050	1230	Mudstone and Siltstone: red-gry, locally micaceous.
Coconino	1230	1550	Sandstone: brownish-white, f.g., rounded quartz grains.
Supai	1550	1743 (T.D.)	Mudstone and Siltstone: red-brown, some gypsum and anhydrite; mostly salt with minor shale below 1657 ft.
			Note: core samples from 1601 ft. to 1743 ft.

* 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 and Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

PLUGGING RECORD

Operator: DUVAL CORPORATION	Address: 4715 E. Ft. Lowell Rd., Tucson, Az. 85712
Federal, State, or Indian Lease Number, or lessor's name if fee lease: Santa Fe Pacific RR Co.	Well No.: 46 — Field & Reservoir:
Location of Well: 335' FSL, 2719 FEL,	Sec-Twp-Rge or Block & Survey: Sec. 9, T19N, R27E — County: Apache
Application to drill this well was filed in name of: Duval Corporation	Has this well ever produced oil or gas: No — Character of well at completion (initial production): Oil (bbls/day): — Gas (MCF/day): — Dry?: Yes
Date plugged: Aug. 11 and 15, 1974	Total depth: 1743 — Amount well producing when plugged: Oil (bbls/day): — Gas (MCF/day): — Water (bbls/day):

Name of each formation containing oil or gas. Indicate which formation open to wellbore 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
			See reverse side

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
8-5/8"	40	0	40		
5-9/16"	1591	0	1591		See reverse side

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

Indicate deepest formation containing fresh water.

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

Name	Address	Direction from this well:

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.

Use reverse side for additional detail.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Senior Geologist of the Duval 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.

August 29, 1974
Date

Edward S. Montgomery
Signature
Edward S. Montgomery

Permit No. 623

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

Form No. 10

RECEIVED
AUG 30 1974
O & G CONS. COMM.

Hole conditions precluded following procedures outlined in "Application to Abandon and Plug", Form No. 9, dated Aug. 11, 1974. Verbal approval was given to N. P. Krier on August 15, 1974 for the work done as follows:

Cement plug (25 sacks) from 1540' to 1743' was set by Halliburton on August 11, 1974.

Casing cut at 980' with McCullough jet cutter, but casing would not pull.

Cut casing was sealed with cement plug (9 sacks) from 930' to 1000' by Chesney Drilling Co.

Cement plug (5 sacks) set from surface to 25' by Chesney Drilling Co.

O.K. WOC

APPLICATION TO ABANDON AND PLUG

FIELD

OPERATOR Duval Corporation ADDRESS 4715 E. Ft. Lowell Rd., Tucson, Az.

Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease Santa Fe Pacific Railroad Company WELL NO. 46

LOCATION 335' FSL, 2719' FEL, Sec. 9, T19N, R27E, Apache County, Arizona

TYPE OF WELL Stratigraphic Test (Oil, Gas or Dry Hole) TOTAL DEPTH 1743

ALLOWABLE (If Assigned) N/A

LAST PRODUCTION TEST OIL (Bbls.) WATER (Bbls.)

GAS (MCF) DATE OF TEST

PRODUCING HORIZON PRODUCING FROM TO

1. COMPLETE CASING RECORD

0- 40 feet; 8-5/8" casing; set with 2 sacks of cement
0-1591 feet; ~~6~~ 5-9/16" casing; no cement

2. FULL DETAILS OF PROPOSED PLAN OF WORK

Cement plug from 1540' to 1743'.
Cut casing at 980 feet and pull casing.
Cement plug at 930 feet to 1030 feet.
Cement plug 0 to 25 feet.

DATE COMMENCING OPERATIONS August 11, 1974

NAME OF PERSON DOING WORK Halliburton Services Co. ADDRESS Farmington, New Mexico

Edward A. Montgomery
Signature

Senior Geologist
Title

5357 East Pima Street, Tucson, Arizona 85712
Address

August 11, 1974
Date

Date Approved 9-2-74
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: W.E. [illegible]

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

Permit No. 623

Verbal permission given to N. P. Krier on August 12, 1974

RECEIVED
AUG 30 1974
O & G CONS. COMM.

W A

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Ne-Duval Corporation

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

3. Well Name Duval #46 Santa Fe

Location 350FSL, 2692FEL

Sec. 9 Twp. T19N Rge. R27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease

Santa Fe

5. Field or Pool Name

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	MONTHLY PROGRESS	☐
FRACTURE TREAT	☐	DIRECTIONAL DRILL	☐	FRACTURE TREATMENT	☐	REPAIRING WELL	☐
SHOOT OR ACIDIZE	☐	PERFORATE CASING	☐	SHOOTING OR ACIDIZING	☐	ALTERING CASING	☐
REPAIR WELL	☐	CHANGE PLANS	☐			ABANDONMENT	☐
(OTHER)			☐	(OTHER) Weekly Progress			X

(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.)

completed hole at 1743ft

set cement plug 1743-1540

tried to pull casing after cutting at 980ft but couldnot

set cement plug 1000-930ft

set cement 25-0ft

RECEIVED

AUG 19 1974

O & G CONS. COMM.

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

Signed Ned L Krier Title Advanced Geological Engineer Date 8/16/74

Permit No. 623

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 23

W

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator: ~~Ale~~ - Duval Corporation

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

3. Well Name: Duval #46 Santa Fe

Location: 350FSL, 2692FEL

Sec. 9 Twp. T19N Rge. R27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease: Santa Fe

5. Field or Pool Name:

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	MONTHLY PROGRESS	☐
FRACTURE TREAT	☐	DIRECTIONAL DRILL	☐	FRACTURE TREATMENT	☐	REPAIRING WELL	☐
SHOOT OR ACIDIZE	☐	PERFORATE CASING	☐	SHOOTING OR ACIDIZING	☐	ALTERING CASING	☐
REPAIR WELL	☐	CHANGE PLANS	☐			ABANDONMENT	☐
(OTHER)			☐	(OTHER) Weekly Progress			X

(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.)

completed hole at 1743ft

set cement plug 1743-1340

tried to pull casing after cutting at 980ft but couldnot

set cement plug 1000-930ft

set cement 25-0ft

RECEIVED

AUG 19 1974

O & G CONS. COMM.

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

Signed Ned P Kriner Title Advanced Geological Engineer Date 8/16/74

Permit No. 623

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

WP

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator: Duval Corporation

2. Oil WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Stratigraphic Test

3. Well Name: Duval #46 Santa Fe

Location: 350 FSL, 2692 FEL

Sec. 9 Twp. 19N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease: Santa Fe

5. Field or Pool Name:

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	MONTHLY PROGRESS	☐
FRACTURE TREAT	☐	DIRECTIONAL DRILL	☐	FRACTURE TREATMENT	☐	REPAIRING WELL	☐
SHOOT OR ACIDIZE	☐	PERFORATE CASING	☐	SHOOTING OR ACIDIZING	☐	ALTERING CASING	☐
REPAIR WELL	☐	CHANGE PLANS	☐			ABANDONMENT	☐
(OTHER)			☐	(OTHER) Weekly Progress			☒

(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.)

Depth @ 6PM 8/2/74 — 1097 ft (from last report)
Depth @ 6PM 8/9/74 — 1634 ft
Top Coconino — 1207 ft?
Top Supai — 1521 ft?

Set 1592 ft of 5 9/16" casing to a depth of 1591 ft. (no cement)
1591 switched to diesel based mud
began coring at 1601 ft and is continuing

RECEIVED
AUG 12 1974
O & G CONS. COMM.

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

Signed: Ned P. Kreier Title: Advanced Geological Eng. Date: 8/9/74

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

Permit No. 623

WP

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator: Duval Corporation

2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Stratigraphic Test

3. Well Name: Duval #46 Santa Fe

Location: 350 FSL 2692 FEL

Sec. 9 Twp. 19N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease: Santa Fe

5. Field or Pool Name:

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	MONTHLY PROGRESS	☐
FRACTURE TREAT	☐	DIRECTIONAL DRILL	☐	FRACTURE TREATMENT	☐	REPAIRING WELL	☐
SHOOT OR ACIDIZE	☐	PERFORATE CASING	☐	SHOOTING OR ACIDIZING	☐	ALTERING CASING	☐
REPAIR WELL	☐	CHANGE PLANS	☐			ABANDONMENT	☐
(OTHER) Weekly Progress	☒			(OTHER)			☐

(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.)

Spuded - 2PM July 30, 1974

Drilled to 1097 ft by 6 PM August 2, 1974 (drilled using air, presently converting to mud)

40 ft. of 8 5/8" casing set with 2 sacks cement

0-10 ft (approx) blow sand
10-1047 Chinle
620-632 Sonsela sand?

1047-1084? Shinarump
1084? --- Lower Wupatki (Moen Kopi)

RECEIVED
AUG 05 1974
O & G CONS. COMM.

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

Signed: Rod P Ritter Title: Advanced Geologic Engineer Date: 8/2/74

Permit No. 623

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

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒ Stratigraphic Test RE-ENTER OLD WELL ☐

NAME OF COMPANY OR OPERATOR

DUVAL CORPORATION

Address 4715 East Fort Lowell Road City Tucson State Arizona

Drilling Contractor

Whatley Drilling Company

Address 1512 West Prince Road, Tucson, Arizona

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
Santa Fe Pacific Railroad Company	46	5,905

Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:
350 feet	N/A feet
Number of acres in lease: 9,901.32	Number of wells on lease, including this well, completed in or drilling to this reservoir: N/A

If lease, purchased with one or more wells drilled, from whom purchased: Name Address

N/A

Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
~~350'~~ 335' FSL ~~2,692~~ 2,717' FEL	Sec. 9, T19N, R27E	N/A

Field and reservoir (if wildcat, so state)	County
	Apache

Distance, in miles, and direction from nearest town or post office

5-1/2 miles SE from Navajo, Arizona

Proposed depth:	Rotary or cable tools	Approx. date work will start
1850	Rotary	July 29, 1974
Bond Status Statewide - on file	Organization Report	Filing Fee of $25.00
Amount $25,000.00	On file X Or attached	Attached X

Remarks:

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the General Manager-Exploration of the Duval 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.

RECEIVED
JUL 29 1974
O & G CONS. COMM.

Signature J.I. Sharpe-General Manager Expl.

Date July 26, 1974

Permit Number: 623

Approval Date: 8-6-74

Approved By: W E Allen

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies

Form No. 3

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for *both* oil and gas wells on the plat.

2. 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.

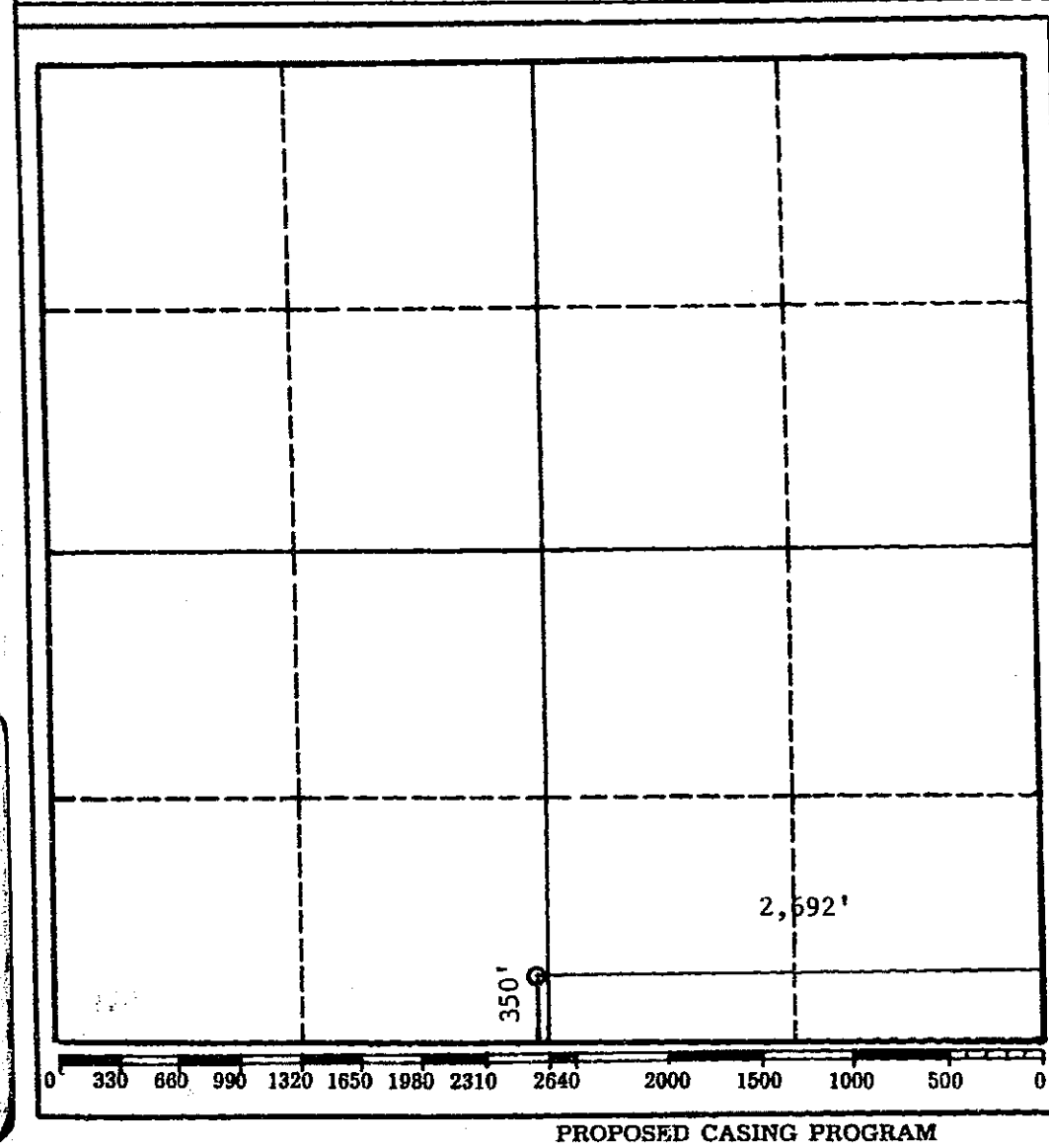
3. All distances shown on the plat must be from the outer boundaries of the Section.

4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES_____ NO X

5. 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 NA

6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner	Land Description
Santa Fe Pacific Railroad - mineral	Section 9, T19N, R19N
Spurlock Ranch - surface	



CERTIFICATION

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

Name: J. I. Sharpe
Position: General Manager
Company: Duval Corporation
Date: July 26, 1974

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.

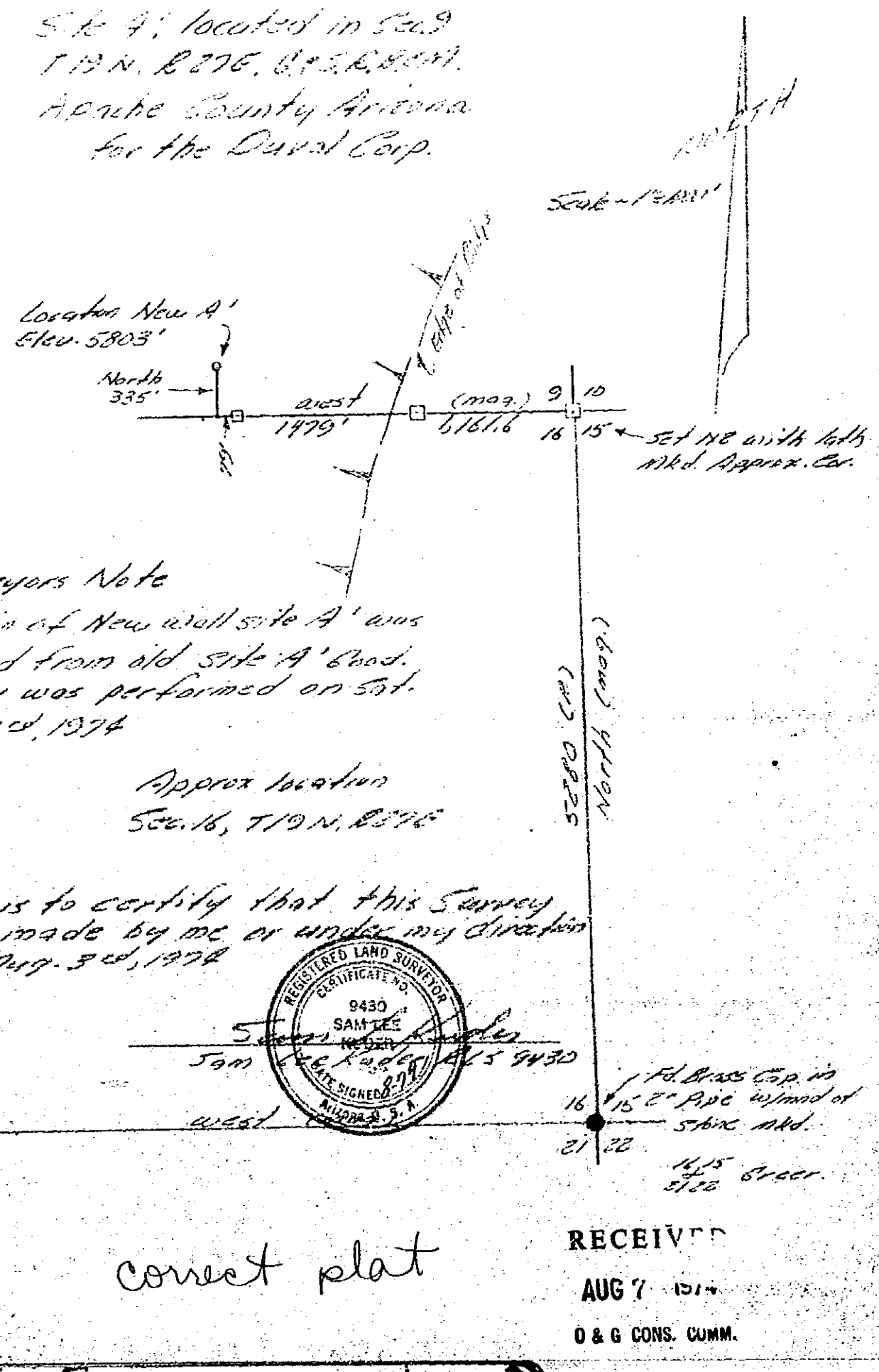
See attached plat.

Date Surveyed: July 1974
Registered Professional Engineer and/or Land Surveyor: Sam Lee Kuder
Certificate No. 9430

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8	24.0	K-55	0	20 ft.	Entire	5 sacks
5-9/16	10.2	Line pipe	0	1670 ft.	1670 - 1660	1 sack

Location Map
for New Location of Well
Site A', located in Sec. 9
T19N, R27E, G&S.R.B.&M.
Apache County Arizona
for the Duval Corp.



Surveyors Note
Location of New well site A' was located from old site A' 6 Dec. Survey was performed on Sat. Aug. 3rd, 1974

Approx location
Sec. 16, T19N, R27E

This is to certify that this Survey was made by me or under my direction on Aug. 3rd, 1974

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
9430
SAM LEE
DATE SIGNED 8-7-74
ARIZONA, U.S.A.

Sam Lee Rader RLS 9430

correct plat

RECEIVED
AUG 7 1974
O & G CONS. COMM.

PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: DUVAL CORPORATION
(OPERATOR)

to drill a well to be known as

DUVAL STATE PROSPECTING PERMIT #27632 Well Number 46
(WELL NAME)

located ~~350'~~ 335' FSL - ~~2692'~~ 2719' FEL

Section 9 Township 19N Range 27E, Apache County, Arizona.

The NA 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 17th day of June, 19 74.

OIL AND GAS CONSERVATION COMMISSION

By W. E. Allen
EXECUTIVE SECRETARY

PERMIT No. 74-623

RECEIPT NO. 98

SAMPLES ARE REQUIRED

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

API NO. 02-001-20192

[redacted]

sl

COUNTY Apache AREA 5½ miles SE of Navajo LEASE NO. Santa Fe RR

WELL NAME DUVAL CORPORATION [redacted] NO. 46 Santa Fe

LOCATION SE/SW SEC 9 TWP 19N RANGE 27E FOOTAGE 335 FSL - 2719 FEL

ELEV 5905 GR _____ KB SPUD DATE 7-30-74 STATUS P&A COMP. DATE 8-11-74 TOTAL DEPTH 1743

CONTRACTOR Whatley Drilling Company, 1512 W. Prince Road, Tucson, Arizona

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH
5 9/16"	1591	none	
8 5/8"	40	2 sacks	

DRILLED BY ROTARY x
DRILLED BY CABLE TOOL _____
PRODUCTIVE RESERVOIR Strat
INITIAL PRODUCTION -

FORMATION TOPS	DEPTHS	SOURCE L.L.	SOURCE E.L.	REMARKS
Alluvium	surface		x	Granted extra 6 months confidential status
Chinle	10'			ends 8-16-75
Moenkopi	1050'			
Coconino	1230'			
Supai	1550'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS
1 Radioactivity Log	NA	NA
Gamma Ray-Neutron		

SAMPLE LOG _____
SAMPLE DESCRP. _____
SAMPLE NO. 1728
CORE ANALYSIS 1601-1743'
DSTs _____

REMARKS _____

APP. TO PLUG 8-30-74
PLUGGING REP. 8-30-74
COMP. REPORT 9-16-74

WATER WELL ACCEPTED BY _____

BOND CO. FEDERAL INSURANCE COMPANY Filed in P/N 6-75 BOND NO. 80605375

BOND AMT. $ 25,000 CANCELLED _____ DATE ORGANIZATION REPORT 5-23-74

FILING RECEIPT 98 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-001-20192 DATE ISSUED 6-17-74 DEDICATION NA

PERMIT NUMBER 623

(over)

CONFIDENTIAL

Release Date 8-16-75

August 15, 1975

Mr. Rollo Pool
Petroleum Information
Box 301
Durango, Colorado 80301

RE: Permit #623
Duval #46
Sec 9, T19N,R27E

Dear Rollo:

Enclosed please find pertient information on our Well #623 for Duval.

Also enclosed is an invoice for $2.70 for 8 copies at 35c each.

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

Very truly yours,

Saralee Lorenzo
Secretary

SL

Encls

623

August 14, 1975

Mr. Jim Webster
Photogrammetry & Mapping Services
Highway Division
Department of Transportation
1739 W. Jackson, Room 61
Phx., AZ 85007

Dear Mr. Webster:

This is to notify you that our Well No. 623, Duval #46 was spudded on 7-30-74.

If you have already received this information, please disregard this letter. I could not find a letter to you regarding this particular file.

If I can be of further services, please let me know.

Very truly yours,

Saralee Lorenzo
Secretary

sl

Encl

623

WR

DUVAL CORPORATION

4715 EAST FORT LOWELL ROAD TUCSON ARIZONA 85712

April 8, 1975

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

Re: Duval Corporation Well #48
Sec. 8-T18N-R27E
Apache County
Permit No. 625

Dear Mr. Allen:

Duval Corporation Well #48 is classified as a stratigraphic test hole, therefore, pursuant to Rule 203 A we request that any information submitted on said hole please be considered confidential for an additional six month period.

Likewise we would like to request that all such information on our drill holes located in this general area be treated in this same manner. To date Duval drill holes nos. 47, 49, 50, 51 and 52 have been completed on Drill permits nos. 624, 626, 630, 631 and 632 respectively.

Thanks for any consideration given this request.

Very truly yours,

DUVAL CORPORATION

by: B. G. Messer
B. G. Messer
Vice President-Minerals Acquisition

BGM:rg

cc: E. S. Montgomery

623

RECEIVED
APR 10 1975
O & G CONS. COMM.

A PENNZOIL COMPANY

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

April 7, 1975

Mr. B. G. Messer
Vice President-Minerals Acquisition
Duval Corporation
4715 East Fort Lowell Road
Tucson, Arizona 85712

Re: Duval Corporation #48
Sec 8-T18N-R27E
Apache County
Permit No. 625

Dear Mr. Messer:

This is to advise you that the confidentiality period on Well No. 48, referenced above, will expire on April 9, 1975. Should you wish an extension on this and all future wells, please advise.

Also, please note the attached change of address effective April 15, 1975.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Enc.

cc Ed Montgomery

623

DUVAL CORPORATION
4715 EAST FORT LOWELL ROAD TUCSON ARIZONA 85712

March 25, 1975

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

Re: Duval Corporation Well #46
Sec. 9-T19N-R27E
Apache County
Permit No. 623

Dear Mr. Allen:

Duval Corporation Well #46 is classified as a stratigraphic test hole, therefore, pursuant to Rule 203 A we request that any information submitted on said hole please be considered confidential for an additional six-month period.

Thanks for any consideration given this request.

Very truly yours,

DUVAL CORPORATION

by: B. G. Messer
B. G. Messer
Vice President-Minerals Acquisition

BGM:rg

cc: E. S. Montgomery

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MAR 27 1975
O & G CONS. COMM.

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March 14, 1975

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

Re: January - March Current File Material

Dear Kay:

Enclosed you will find the following current material for January through March, 1975.

Data - Completion report and miscellaneous reports on Northwest Pipeline Judy Lee #1, File #637

Logs - Dual Induction - Laterolog and Sidewall Neutron Porosity Log

Data - Completion report and miscellaneous reports on Duval No. 46, File #623

Logs - Radioactivity Log

Very truly yours,

Mrs. Rhema Brandt
Secretary to W. E. Allen
Director, Enforcement Section

WEA/rlb

Encs.

623 Logs returned 4-18-75

March 14, 1975

Mr. Edward S. Montgomery
Duval Corporation
5357 East Pima
Tucson, Arizona 85712

Re: Duval Corporation #46
Sec 9-T19N-R27E
Apache County
Permit No. 623

Duval Corporation Well #53
Sec 18-T18N-R26 E
Apache County
Permit No. 638

Dear Ed:

This is to advise you that your permit on Well No. 53, referenced above, will expire April 7, 1975. If this well hes not been spudded by that date and you wish an extension, please advise prior to the expiration date.

The confidentiality period on Well No. 46, referenced above, will expire on March 16, 1975.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

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DUVAL CORPORATION

5357 EAST PIMA TUCSON ARIZONA 85712

September 16, 1974

Mr. William E. Allen
Oil and Gas Conservation Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

re: Duval Corporation #46
Sec. 9 - T19N-R27E
Apache County
Permit No. 623

Dear Mr. Allen:

Enclosed are "Well Completion or Recompletion Report and Well Log", Form No. 4 and a gamma ray - neutron log for our well No. 46.

Sincerely,

Edward S. Montgomery

Edward S. Montgomery
Senior Geologist

ESM:hdh
encl.

cc: B. G. Messer

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DUVAL CORPORATION

5357 EAST PIMA TUCSON ARIZONA 85712

August 29, 1974

Mr. William E. Allen
Oil and Gas Conservation Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Re: Duval Corporation #46
Sec. 9 - T19N-R27E
Apache County
Permit No. 623

Dear Mr. Allen:

Enclosed are "Application to Abandon and Plug", Form No. 9 and "Plugging Record", Form No. 10 for our well No. 46.

Sincerely,

Edward S. Montgomery

Edward S. Montgomery
Senior Geologist

ESM:hdh
encl.
cc: B. G. Messer

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AUG 30 1974
O & G CONS. COMM.

DUVAL
CORPORATION

5357 EAST PIMA TUCSON ARIZONA 85712

August 6, 1974

Mr. William E. Allen
Oil & Gas Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Ref. Duval Corporation #46
Sec. 9 - T19N - R27E
Apache County
Permit No. 623

Dear Mr. Allen:

Enclosed is the surveyor's plat for our drill hole #46.

Hope to see you in Navajo later this week.

Sincerely,

Ed Montgomery

Edward S. Montgomery
Senior Geologist

ESM:hdh
encl.

cc: Mr. B. G. Messer

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O & G CONS. COMM.

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O & G CONS. COMM.

DUVAL CORPORATION

5357 EAST PIMA TUCSON ARIZONA 85712

August 1, 1974

Mr. William E. Allen
Oil & Gas Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Dear Mr. Allen:

Enclosed is Permit to Drill Number 623 for a well in Section 16, T19N, R27E. As you know, we would like the permit reissued for a well in Section 9, T19N, R27E.

Sincerely,

Ed Montgomery

Edward S. Montgomery

ESM:hdh

cc: Mr. B. G. Messer

encl.

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O & G CONS. COMM.

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JUL 29 1974
D & G CONS. COMM.

DUVAL CORPORATION
5357 EAST PIMA TUCSON ARIZONA 85712

July 26, 1974

Mr. William E. Allen
Oil and Gas Conservation Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

re: Duval Corporation #46
NW/NW Sec. 16 - T19N-R27E
Apache County
Permit No. 623

Dear Mr. Allen:

Enclosed are a Form 3, Application for Permit to Drill and a survey plat showing several proposed well sites in sections 9 and 16, T19N, R27E.

At noon today, the surveyor informed us that none of the sites located in section 16 are accessible to a drill rig! Consequently, we would like to drill the site in section 9 shown on the attached plat as Duval #46. We control the mineral rights in section 9 by means of an option to lease agreement with Santa Fe Pacific Railroad Company.

Also today, the drilling contractor called to say that he plans to move equipment to the well site on Monday, July 29. We are hoping that you will be able to give oral permission to drill the location shown on the attached plat.

I will call you Monday morning to discuss this change of plans.

Sincerely,

Edward S. Montgomery

Edward S. Montgomery
Senior Geologist

ESM:hdh
encls.

6)3

June 17, 1974

Mr. B. G. Messer
Duval Corporation
4715 East Fort Lowell Road
Tucson, Arizona 85712

Re: Duval Corporation #46
SE/SW ~~NW/NW~~ Sec ~~16~~ 9-T19N-R27E
Apache County
Permit No. 623

Dear Mr. Messer:

Enclosed please find Receipt No. 0098 covering the $25 filing fee, a copy of your approved Application for Permit to Drill and Permit to Drill No. 623.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Encs.

623

June 17, 1974

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

Dear Mrs. Ratcliff:

The following permits have been issued since March 26, 1974.

Geothermal Kinetics Inc. - Amax Exploration Inc.
Pima Farms Inc. Well No. 1
SE/SW Sec 8-T7S-R8E, Permit #622
Pinal County, Issued 6-4-74

Duval Corporation #46
~~NW/NW~~ SE/SE Sec 16-T19N-R27E, Permit #623
Apache County, Issued 6-17-74

Very truly yours,

Rhema L. Brandt,
Secretary to W. B. Allen,
Director-Enforcement Section

/rlb

6x3

June 17, 1974

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

Dear Mr. Getscher:

The following permits have been issued since March 26, 1974.

Geothermal Kinetics Inc. - Amax Exploration Inc.
Pima Farms Inc. Well No. 1, Prop. T.D. 7500', Elev. 1509'
SE/SW Sec 8-T7S-R8E, Permit #622
Pinal County, Issued 6-4-74

Duval Corporation #46, Prop. T.D. 1850', Elev. 5955'
~~NW/NW~~ SE/SW Sec ~~16~~ 14-T19N-R27E, Permit #623
Apache County, Issued 6-17-74

Very truly yours,

Rhema L. Brandt
Secretary to W. E. Allen,
Director - Enforcement Section

/rlb

623

August 12, 1974

Memo to file: Duval Corporation Well #46
Sec 9-T19N-R27E
Apache County
File #623

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

Ned Krier called this morning to change the agreed upon plugging program. When the operator attempted to pull the 5 9/16" casing in the hole, they found the pipe stuck. The present plugging program that I have verbally approved calls for a cement plug to be placed from total depth to 1541' and then a 100' plug across the casing stub. The plans are to cut the casing at 980' with heavy mud from 980' to 20' and a 20' plug to the surface with regulation dry hole marker.