

*PO*  
**CONFIDENTIAL**

Release Date *5/8*  
*10-18-75*



DUVAL CORP. WELL NO. 49 STATE  
NW/NE Sec 6-T18N-R27E, Apache Co. 626

COUNTY Apache AREA 9.5 mi. S of Navajo LEASE NO. State Prospecting #27628

WELL NAME DUVAL CORPORATION WELL NO. 49 Seal

LOCATION NW/NE SEC 6 TWP 18N RANGE 27E FOOTAGE 564' FNL - 3641.5' FWL  
 ELEV 6151 GR \_\_\_\_\_ KB SPUD DATE 10-7-74 STATUS Plugged TOTAL \_\_\_\_\_  
 COMP. DATE 11-5-74 DEPTH 2046  
*T.D. reached*

CONTRACTOR Whatley Drilling Company

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>7"</u>	<u>1172'</u>	<u>0</u>		<input checked="" type="checkbox"/>
<u>5 9/16"</u>	<u>1869</u>	<u>10 sacks</u>		

DRILLED BY CABLE TOOL \_\_\_\_\_  
 PRODUCTIVE RESERVOIR Strat Test  
 INITIAL PRODUCTION \_\_\_\_\_

FORMATION TOPS	DEPTHS	SOURCE	REMARKS
Alluvium	0	4	Sand: buff
Bidahochi	4	260	Clayey sand with minor clay and sand beds; locally liney.
Chinle	260	1292	Claystone and Siltstone: variously colored; local sandstone beds.
Moenkopi	1292	1470	Siltstone: brown, locally gray
Coconino	1470	1770	Sandstone: light tan; v.f.g. - m.g.; well sorted
Supai	1790	2046	Sandstone: red-brown, v.f.g. - m.g. grading to claystone; some anhydrite; mostly halite with minor claystone and anhydrite below 1873 ft.

ELECTRIC LOGS \_\_\_\_\_ PERFORATED \_\_\_\_\_

Radioactivity log

SAMPLE NO. ~~1731~~ 1731  
 CORE ANALYSIS \_\_\_\_\_  
 DSTs \_\_\_\_\_

REMARKS \_\_\_\_\_

APP. TO PLUG 11-6-74  
 PLUGGING REP. 11-7-74  
 COMP. REPORT 11-8-74

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. Federal Insurance Company *filed as P/W 675* BOND NO. 80605375  
 DATE \_\_\_\_\_ ORGANIZATION REPORT 5-23-74  
 BOND AMT. \$ 25,000 CANCELLED \_\_\_\_\_  
 FILING RECEIPT 138 LOC. PLAT X WELL BOOK X PLAT BOOK X  
 API NO. 02-001-20195 DATE ISSUED 8-14-74 DEDICATION NA

PERMIT NUMBER 626

**CONFIDENTIAL**

Release Date November 18, 75

(over)



### WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

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

DESCRIPTION OF WELL AND LEASE

Operator: **DUVAL CORPORATION** Address: **4715 E. Ft. Lowell Rd., Tucson, Az. 85712**

Federal, State or Indian Lease Number or name of lessor if fee lease: **State Prospecting Permit 27628** Well Number: **49** Field & Reservoir: **Strat Test**

Location: **564' FNL, 3641.5' FWL** County: **Apache**

Sec. TWP-Range or Block & Survey: **Sec. 6, T18N, R27E**

Date spudded: **10/7/74** Date total depth reached: **11/5/74** Date completed, ready to produce: \_\_\_\_\_ Elevation (DF, RKB, RT or Gr.) feet: \_\_\_\_\_ Elevation of casing h.d. Range feet: \_\_\_\_\_

Total depth: **2046** P.B.T.D.: \_\_\_\_\_ Single, dual or triple completion?: \_\_\_\_\_ If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion: \_\_\_\_\_ Rotary tools used (interval): **0-2046** Cable tools used (interval): \_\_\_\_\_

Was this well directionally drilled? **No** Was directional survey made? **No** Was copy of directional survey filed? \_\_\_\_\_ Date filed: \_\_\_\_\_

Type of electrical or other logs run (check logs filed with the commission): **Gamma-Ray - Neutron** Date filed: **Nov. 18, 1974**

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
Protective	8-3/8	7"	13.67	0 - 1172	0	0
			20.0	1172 - 1296	0	0
Protective	6-1/4	5-9/16"	10.76	0 - 1869	10	1869

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
in.	ft.	ft.	in.	ft.	ft.		

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & 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: \_\_\_\_\_ Gas prod. during test: \_\_\_\_\_ Water prod. during test: \_\_\_\_\_ Oil gravity: \_\_\_\_\_  
bbls. MCF bbls. ° API (Corr)

Tubing pressure: \_\_\_\_\_ Casing pressure: \_\_\_\_\_ Cal'ed rate of Production per 24 hrs.: \_\_\_\_\_ Oil: \_\_\_\_\_ Gas: \_\_\_\_\_ Water: \_\_\_\_\_ Gas-oil ratio: \_\_\_\_\_  
bbls. MCF bbls.

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.

Date: November 18, 1974 Signature: Edward S. Montgomery

<p><b>RECEIVED</b> NOV 20 1974 O &amp; G CONS. COMM.</p>	<p>STATE OF ARIZONA OIL &amp; GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy</p>
Permit No. <b>626</b>	

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Alluvium	0	4	Sand: buff
Bidahochi	4	260	Clayey sand with minor clay and sand beds; locally limey.
Chinle	260	1292	Claystone and Siltstone: variously colored; local sandstone beds.
Moenkopi	1292	1470	Siltstone: brown, locally gray
Coconino	1470	1770	Sandstone: light tan; v.f.g. - m.g.; well sorted
Supai	1790	2046	Sandstone: red-brown, v.f.g. - m.g. grading to claystone; some anhydrite; mostly halite with minor claystone and anhydrite below 1873 ft.

Note: core samples from 1873 ft. to 1980 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 <b>Duval Corporation</b>			Address <b>4715 E. Ft. Lowell Rd., Tucson, Az. 85712</b>		
Federal, State, or Indian Lease Number, or lessor's name if fee lease. <b>State Prosp. Permit 27628</b>		Well No. <b>49</b>	Field & Reservoir		
Location of Well <b>564' FNL, 3641.5' FWL</b>		Sec-Twp-Rge or Block & Survey <b>Sec. 6, T18N, R27E</b>		County <b>Apache</b>	
Application to drill this well was filed in name of <b>Duval Corporation</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day)      Gas (MCF/day)      Dry? <b>Dry?</b>			
Date plugged: <b>November 6, 1974</b>	Total depth <b>2046</b>	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 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 <b>Cement Plugs</b>		
<b>Bidahochi</b>		<b>0 - 260</b>	<b>0- 25; 10 sacks</b>		
<b>Chinle</b>		<b>260 - 1292</b>	<b>1250-1350; 20 sacks</b>		
<b>Moenkopi</b>		<b>1292 - 1470</b>	<b>1400-1600; 35 sacks</b>		
<b>Coconino</b>	<b>salt water</b>	<b>1470 - 1790</b>	<b>1750-1950; 35 sacks</b>		
<b>Supai</b>		<b>1790 - 2046 TD</b>			
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
<b>7"</b>	<b>1296</b>	<b>0</b>	<b>1296</b>		
<b>5-9/16"</b>	<b>1869</b>	<b>1869</b>	<b>0</b>		
Was well filled with mud-laden fluid, according to regulations? <b>Yes</b>				Indicate deepest formation containing fresh water. <b>Unknown</b>	
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 <u>Senior Geologist</u> of the <u>Duval Corporation</u> (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.					
Date	Signature				
<b>November 7, 1974</b>	<i>Edward S. Montgomery</i> <b>Edward S. Montgomery</b>				
Permit No. <b>626</b>			STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
			Form No. 10		

APPLICATION TO ABANDON AND PLUG

FIELD \_\_\_\_\_  
 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 State Prospect. Permit #08-27628 WELL NO. 49  
 LOCATION 564' FNL, 3641.5' FWL, Sec. 6, T18N, R27E, Apache County, Arizona  
 TYPE OF WELL Stratigraphic Test TOTAL DEPTH 2046  
 (Oil, Gas or Dry Hole)  
 ALLOWABLE (If Assigned) \_\_\_\_\_  
 LAST PRODUCTION TEST OIL \_\_\_\_\_ (Bbls.) WATER \_\_\_\_\_ (Bbls.)  
 GAS \_\_\_\_\_ (MCF) DATE OF TEST \_\_\_\_\_  
 PRODUCING HORIZON \_\_\_\_\_ PRODUCING FROM \_\_\_\_\_ TO \_\_\_\_\_

1. COMPLETE CASING RECORD.

- 0 - 1296 feet; 7" casing; no cement
- 0 - 1869 feet; 5-9/16" casing; 10 sacks cement

2. FULL DETAILS OF PROPOSED PLAN OF WORK

- Pull 1800 feet of 5-9/16
- Set cement plug from 1750 to 1950 ft.
- Set cement plug from 1400 to 1600 ft.
- Set cement plug from 1250 to 1350 ft.
- Set cement plug from 0 to 25 ft.

DATE COMMENCING OPERATIONS November 5, 1974  
 NAME OF PERSON DOING WORK Halliburton Services Co. ADDRESS Farmington, New Mexico  
 Signature *N. P. Krier*  
 N. P. Krier  
 Advanced Geological Engineer  
 Title \_\_\_\_\_  
 5357 E. Pima St., Tucson, Az. 85712  
 Address \_\_\_\_\_  
 November 6, 1974  
 Date \_\_\_\_\_

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NOV 8 1974

O & G CONS. COMM.

Date Approved 11-8-74  
 STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 By: *[Signature]*

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

Permit No. 626

WVA

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 #49 State

Location 564' FWL, 364 1/2' FWL

Sec. 6 Twp. 16N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease  
State Prospecting Permit #08-27628

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

(NOTE: Report results of multiple completion on Well Completion or Recombination 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 11/5/74 at depth of 2046'

pulled 1869' of 5 9/16" casing

Halliburton set cement plugs as follows

- 0-25'
- 1250'-1350'
- 1400'-1600'
- 1750'-1950'

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O & G CONS. COMM.

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

Signed Neal P. Verner Title Advanced Geological Engineer Date 11/8/74

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

Permit No. 626

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 #49 State  
 Location 3641.5' FWL, 564' FNL  
 Sec. Sec 6 Twp. 18N Rge. 27 E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease.  
State Prospecting Permit #08-27628

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 <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly Progress</u> <input checked="" type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

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

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

ran 5 1/2" casing to 1865ft and set with 10 sacks cement

Depth of 1930ft as of 6 PM 11/1/74

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NOV 4 1974

O & G CONS. COMM.

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

Signed Ned P. Turner Title Advanced Geological Engineer Date 11/1/74

Permit No. 626

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

W17

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Dural Corporation

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

3. Well Name Dural #49 State

Location 3641.5' FWL, 564' FNL

Sec. 6 Twp. 18N Rge. 27 E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease  
State Prospecting Permit #08-27628

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

(NOTE: Report results of multiple completion on Well Completion or Recombination 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.)

set 7" casing to a depth of 1296ft

Top of Shinarump ≈ 1290 ft.

Top of Moenkopi ≈ 1330 ft

Top of Coconino ≈ 1480 ft.

Depth as of 6 PM 10/25/74 - 1725'

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OCT 20 1974

Expect to set 5 3/4" casing at about 1890'

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

Signed Red P. Kover Title Advanced Geological Engineer Date 10/25/74

Permit No. 624

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

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 #49 State  
 Location 3641.5' FWL, 564' FWL  
 Sec 6 Twp 18N Rge 27E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease:  
State Prospecting Permit # 08-27628  
 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly Progress</u> <input checked="" type="checkbox"/>	ABANDONMENT <input type="checkbox"/>

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

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

Shutdown most of week replacing engine  
T.D. 950' on 10/18/74

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OCT 21 1974

O & G CONS. COMM.

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

Signed Fred P. Krier

Title Advanced Geological Engineer Date 10/18/74

Permit No. 626

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

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 #49 State  
 Location 3642.1' FWL, 564' FNL  
 Sec. 6 Twp. 18N Rge. 27E County Apache Arizona.  
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease:  
State Prospecting Permit #08-27628  
 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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Weekly Progress</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			<input checked="" type="checkbox"/>

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

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

Spudded 10/7/74  
 0-255 Bidahuchi  
 255 - Top Chinle  
 CPM 10/11/74 - depth 859'  
 Shutdown because of engine trouble

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OCT 15 1974

O & G CONS. COMM.

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

Signed Neil P. Knie Title Advanced Geological Engineer Date 10/11/74

Permit No. 626

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 E. 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 <b>State Prospecting Permit #27628</b>	Well number <b>49</b>	Elevation (ground) <b>6151'</b>
Nearest distance from proposed location to property or lease line: <b>564 feet</b>	Distance from proposed location to nearest drilling completed or applied—for well on the same lease: <b>N/A feet</b>	
Number of acres in lease: <b>636.36</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>N/A</b>	
If lease, purchased with one or more wells drilled, from whom purchased: <b>N/A</b>		
Well location (give footage from section lines) <b>564' FNL 3641.5 FWL</b>	Section—township—range or block and survey <b>Sec. 6, T18N, R27E</b>	Dedication (Comply with Rule 105) <b>N/A</b>
Field and reservoir (if wildcat, so state)	County <b>Apache</b>	
Distance, in miles, and direction from nearest town or post office <b>9.5 miles south of Navajo, Arizona</b>		
Proposed depth: <b>2000'</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>September 16, 1974</b>
Bond Status: <b>Statewide - on file</b>	Organization Report: On file <input checked="" type="checkbox"/> Or attached	Filing Fee of \$25.00 Attached <input checked="" type="checkbox"/>
Amount: <b>\$25,000.00</b>		

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Vice President 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**  
**AUG 14 1974**  
**O & G CONRS. COMM.**

Signature B. G. Messer  
**B. G. Messer, Vice President**  
Date August 12, 1974

Permit Number: 626  
Approval Date: 8-14-74  
Approved By: [Signature]

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

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

Form No. 3

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

Owner <u>State of Arizona</u>	Land Description <u>Section 6, T18N, R27E</u>
<u>Surface &amp; Mineral</u>	

**CERTIFICATION**

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

Name  
B. G. Messer

Position  
Vice President

Company  
Duval Corporation

Date  
August 12, 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

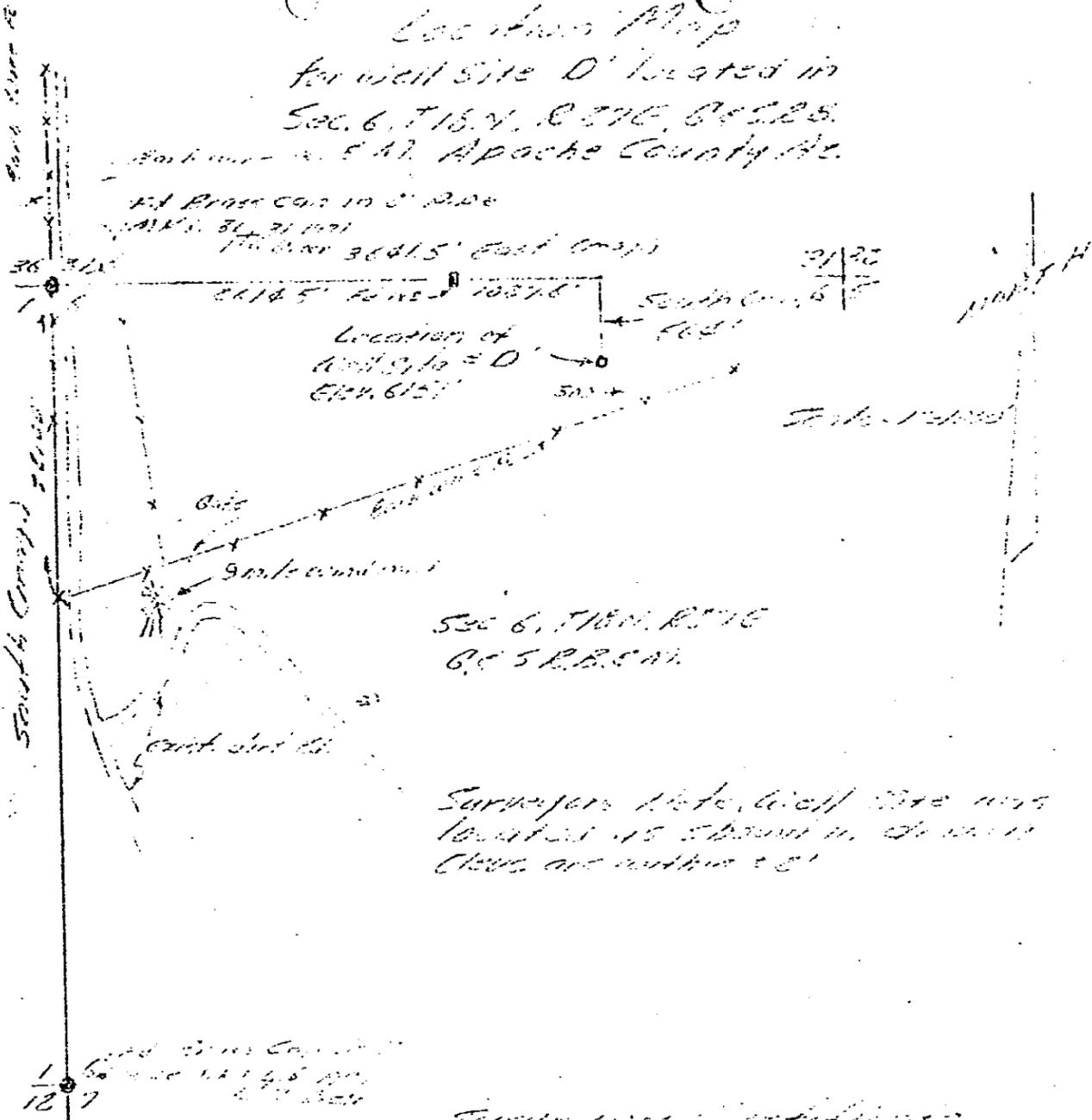
Registered Professional Engineer and/or Land Surveyor  
Sam Lee Kuder

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'	Entire	5 sacks
5-9/16"	10.2	Line pipe	0	1850'	1840-1850	1 sack

Location Map  
 for well site D' located in  
 Sec. 6, T18N, R27E, GCS25,  
 Apache County, Ariz.



Sec 6, T18N, R27E  
 GCS 25 R.R. 500'

Surveyors note well site was located as shown in drawing. Check on section 6.

Surveyors note that the  
 survey was made by means of  
 the aneroid barometer.

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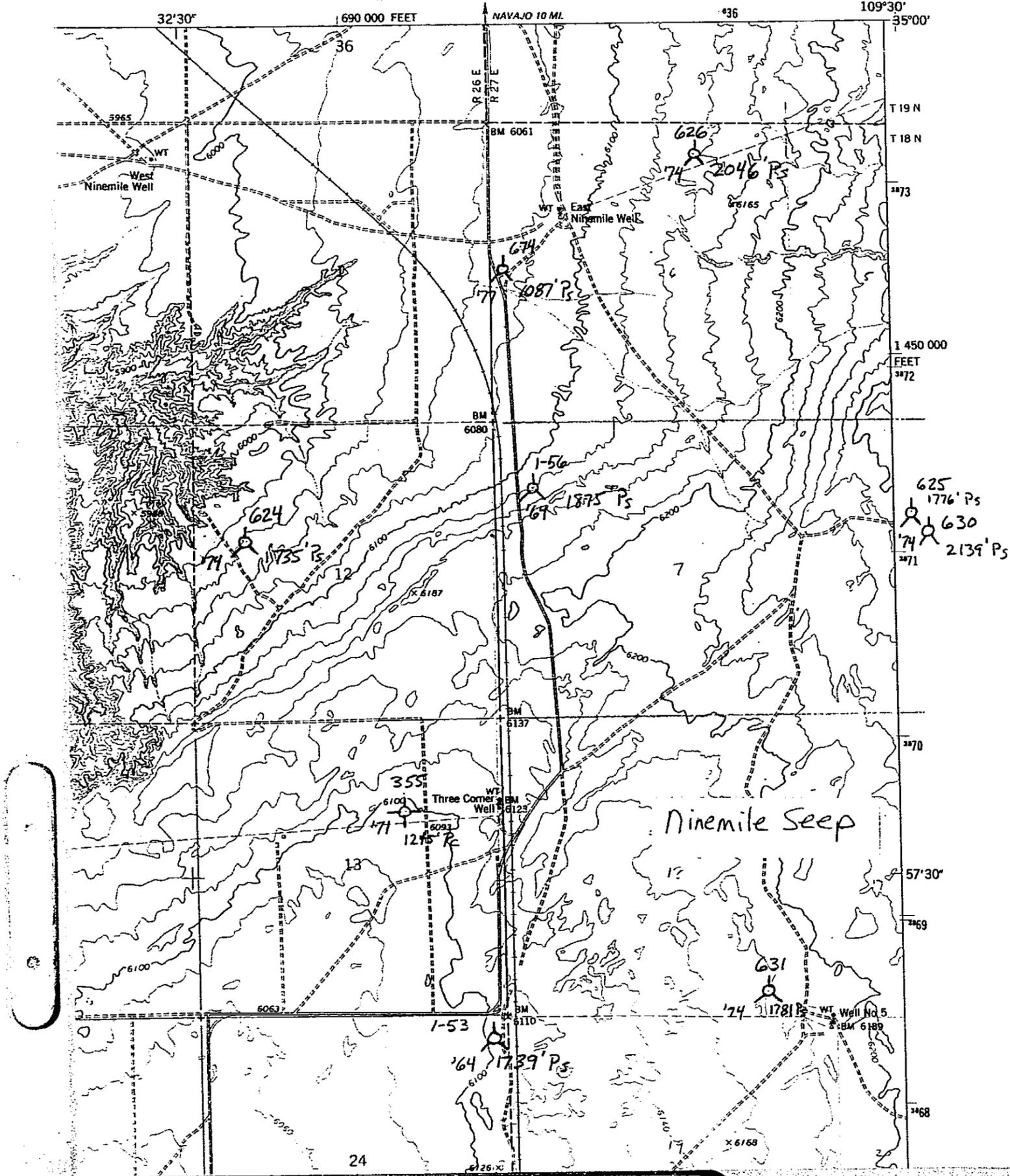
O & G CORP. COMM.

A 626



NINEMILE SEEP QUADRANGLE  
ARIZONA—APACHE CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)

4 1/4 MI. SW  
(NAVAJO SPRING)





# 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 #27628 Well Number 49

(WELL NAME)

located 304' FNL - 3641.5' FWL

Section 6 Township 18N 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 14th day of August, 19 74.

OIL AND GAS CONSERVATION COMMISSION

By [Signature]  
EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 626

RECEIPT NO. 138  
SAMPLES ARE REQUIRED  
API NO. 02-001-20195

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27



OFFICE OF  
**Oil and Gas Conservation Commission**  
STATE OF ARIZONA

4515 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
6690 N. CENTRAL, SUITE 106  
PHOENIX, ARIZONA 85020

November 20, 1975

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

RE: NOVEMBER CURRENT FILE MATERIAL

Dear Kay:

Enclosed you will find the following current material for November:

DATA: Completion report and miscellaneous reports on Beta Exploration  
#2-X, File #651; Duval Corporation, Well No. 49, File #626;  
Williams Energy Company, Well No. 7, File #646.

LOGS: Borehole Compensated Sonic Log, File #651, Beta Exploration  
Radioactivity Log, Duval Corporation, File #626

Thank you.

Saralee Lorenzo  
Secretary

WPA

D

Q



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 205 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

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APR 10 1975



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



5357 EAST PIMA TUCSON ARIZONA 85712

November 18, 1974

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

re: Duval Corporation #49  
Sec. 6, T18N, R27E  
Apache County  
Permit No. 626

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. 49.

Sincerely,

A handwritten signature in cursive script that reads "Edward S. Montgomery".

Edward S. Montgomery  
Senior Geologist

ESM:hdh  
encl.

cc: B. G. Messer

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O & G CONS. COMM.



5357 EAST PIMA TUCSON ARIZONA 85712

November 8, 1974

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

Dear Mr. Allen:

Enclosed are Well Completion Form and Gamma-Ray Neutron Log for Duval Hole #50. Also enclosed is Plugging Record Form for Duval Hole #49.

Hole #50 has been marked on the ground with a piece of 5-9/16" pipe and the drill location cleaned.

Sincerely,

Ned P. Krier  
Advanced Geological Engineer

NPK:hdh  
encl.

cc: B. G. Messer

August 15, 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 June 17, 1974.

Duval Corporation #47  
SW/NW Sec 12-T18N-R26E  
Apache County  
Permit No. 624

Duval Corporation #48  
SE/SW Sec 8-T18N-R27E  
Apache County  
Permit No. 625

Duval Corporation #49  
NW/NE Sec 6-T18N-R27E  
Apache County  
Permit No. 626

Very truly yours,

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

WEA/rlb



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

August 14, 1974

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

Re: Duval Corp. #47	Duval Corp. #48	Duval Corp. #49
SW/NW Sec 12-T18N-R26E	SE/SW Sec 8-T18N-R27E	NW/NE Sec 6-T18N-R27E
Apache County	Apache County	Apache County
Permit No. 624	Permit No. 625	Permit No. 626

Dear Mr. Messer:

Enclosed please find Receipt No. 138 covering your \$75 filing fee. Also enclosed are your approved applications for permit to drill and Permit to Drill No. 624, No. 625 and No. 626.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

Encs.



4715 EAST FORT LOWELL ROAD TUCSON ARIZONA 85712

August 12, 1974

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

Dear Mr. Allen:

Enclosed are three applications for Permit to Drill the following core tests in Apache County as follows:

1. Duval Hole No. 47 located in the SWNW of Section 12, T18N, R26E.
2. Duval Hole No. 48 located in the SENW of Section 8, T18N, R27E and
3. Duval Hole No. 49 located in the NWNE of Section 6, T18N, R27E.

Also enclosed is our check in the amount of \$75.00 covering the filing fee for above permits.

Yours very truly,

DUVAL CORPORATION

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

BGM:rg  
Enclosures

cc: E. S. Montgomery

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AUG 12 1974

O & G CONS. COMM.