



CONFIDENTIAL
Release Date *April 1975*
October 1975

DUVAL CORP. WELL NO. 48 STATE
SE/NW Sec 8-T18N-R27E, Apache Co. 625

sl

COUNTY Apache AREA 10.5 mi. SSE of Navajo LEASE NO. State Prospecting #27629

WELL NAME DUVAL CORPORATION WELL NO. 48 STATE

LOCATION SE/NW SEC 8 TWP 18N RANGE 27E FOOTAGE 1594' FNL - 2074' FWL
ELEV 6216 GR KB SPUD DATE 8-16-74 STATUS P&A 9-24-74 TOTAL DEPTH 1776'
COMP. DATE 9-6-74

CONTRACTOR Whatley Drilling Company

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
8 5/8"	45'	2	NA	<input checked="" type="checkbox"/>		<u>strat</u>	
6 5/8"	539'	0					

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Alluvium	surface	x		unconsolidated sand
Bidahochi	40'	x		Clayey sand
Chinle	388'	x		Mudstone & siltstone
Moenkopi	1375'	x		Siltstone: brown
Coconino	1535'	x		Sandstone: very light brown
				Note: Lost circulation problems from 1740 to T.D.; probably open fractures.

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
NA	NA	NA	SAMPLE DESCRP. <input checked="" type="checkbox"/> SAMPLE NO. <u>1730</u> CORE ANALYSIS DSTs

REMARKS	APP. TO PLUG	PLUGGING REP.	COMP. REPORT
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY _____

BOND CO. Federal Insurance Company *Filed in P/A 675* BOND NO. 80605375
 BOND AMT. \$ 25,000 CANCELLED _____ DATE 5-23-74
 FILING RECEIPT 138 LOC. PLAT WELL BOOK PLAT BOOK
 API NO. 02-001-20194 DATE ISSUED 8-14-74 DEDICATION NA

PERMIT NUMBER 625

(over)

CONFIDENTIAL
10-9-75

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, Ariz.**

Federal, State or Indian Lease Number or name of lessor if fee lease: **State Prospecting Permit # 27629** Well Number: **48** Field & Reservoir:

Location: **1594 FNL - 2074 FWL** County: **Apache**

Sec. TWP-Range or Block & Survey: **Section 8, T18N, R27E**

Date spudded: **8-16-74** Date total depth reached: **9-6-74** Date completed, ready to produce: Elevation (DF, REB, RT or Gr.) feet: Elevation of casing hd. Range feet:

Total depth: **1776** 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 - 1776** 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 completion): **None** Date filed:

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	45"	2	45
Intermed.	8-5/8"	6-5/8"	9.76	539'	0	0

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
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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'd 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.

Date: October 9, 1974

Signature: *Edward A. Montgomery*

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

Form No. 625

Form No. 4

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Alluvium	0	40	Unconsolidated sand
Bidahochi	40	388	Clayey sand
Chinle	388	1375	Mudstone and Siltstone: variously colored; local sandstone beds.
Moenkopi	1375	1535	Siltstone: brown
Coconino	1535	T.D. (1776)	Sandstone: very light brown, v.f.g.

Note: Lost circulation problems from 1740 to T.D.; probably open fractures.

* 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 driller's 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. State, P.P. #27629		Well No. 48	Field & Reservoir		
Location of Well 1594' FNL - 2074' FWL		Sec-Twp-Rge or Block & Survey Sec. 8, T18N, 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?			
Date plugged: September 24, 1974	Total depth 1776'	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		
			Cement Plugs		
			0- 30', 5 sacks		
			490- 590', 20 sacks		
			1200-1400', 40 sacks		
			1485-1585', 20 sacks		
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"	45	45	0		
6-5/8"	539	0	539		
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.					
September 30, 1974 Date		OCT 01 1974		<i>Edward A. Montgomery</i> Signature	
O & G CONS. COMM.					
Permit No. 625			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** Tucson, Arizona

Federal, State, or Indian Lease Number _____ **WELL NO.** 48

or Lessor's Name if Fee Lease State Prospecting Permit #27629

LOCATION 1594 FNL, 2074' FWL, Section 8, T18N, R27E

Apache County, Arizona

TYPE OF WELL Stratigraphic Test **TOTAL DEPTH** 1776

(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.

45 feet of 8-5/8" casing was removed from hole
 539 feet of 6-5/8" casing to be left in hole

2. FULL DETAILS OF PROPOSED PLAN OF WORK.

Cement plugs to be set at following intervals:

- 0 - 25'
- 490' - 590'
- 1200' - 1400'
- 1480' - 1580'

Note: Verbal approval given to N. P. Krier on September 23, 1974

DATE COMMENCING OPERATIONS September 23, 1974

NAME OF PERSON DOING WORK Haliburton Services **ADDRESS** Farmington, New Mexico

Signature Edward D. Montgomery

Title Senior Geologist

Address 5357 E. Pima St., Tucson, Arizona 85712

Date September 24, 1974

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O & G CONS. COMM.

Date Approved 90-1-74

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
 Application to Abandon and Plug
 File Two Copies

Form No. 9

Permit No. 625

DUVAL STATE WELL NUMBER 48
SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 8, T18N, R27E
Apache County, Arizona

<u>DEPTH, FT.</u>	<u>DESCRIPTION OF CUTTINGS</u>
0 - 40	Sand, lt. brown, mg, subrounded 75%; Clay, 20%, small pebbles, 5%; many small lt. brown phosphate-like sand size pellets, some pebble size, good sorting.
40 - 230	As above, sand, 90% - 95%; phosphate-like pellets, 5%-10%.
230 - 240	As above, phosphate-like pellets, 15%.
240 - 250	Sand, lt. brown to buff, fg. to vfg, subrounded to subangular, 90%; phosphate-like pellets 10%.
250 - 270	As above, sand, mg to cg.
270 - 280	As above, sand, fg to mg.
280 - 290	Sandy clay, light brown.
290 - 300	No sample.
300 - 330	Sand, lt. brown to buff, mg to fg, 95% +, 10% of sand phosphate-like.
330 - 340	As above, vfg to cg, poorly sorted.
340 - 390	- As above, fg to mg, fair to good sorting.
390 - 400	As above, vfg to cg, very poorly sorted.
400 - 410	Sand, poorly sorted; Shale, gray.
410 - 430	Shale, gray to gray-green.
430 - 440	Shale, gray to gray-green, brown; Sandstone, white, minor cont.
440 - 460	Shale, gray-green; Sand, brown
460 - 470	Clay, red
470 - 480	Shale, gray, brown, red; sandy shale
480 - 490	Shale, gray-green, red.
490 - 500	Clay, red, silty.
500 - 520	Clay, red to red-brown; Sand, lt. gray, fg, clayey
520 - 530	Sand, red-brown, fg to mg, clayey, subrounded.
530 - 540	As above, with gray-green shale

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RDH 48

<u>DEPTH, FT.</u>	<u>DESCRIPTION OF CUTTINGS</u>
540 - 550	Clay, red to red-brown; Sandy clay; few small black pebbles
550 - 560	Sand, fg to vfg; Clay, red.
560 - 570	Sandstone, lt. gray to brown, clayey
570 - 580	Clay, red
580 - 590	Clay, red-brown.
590 - 600	Sand, gray to red, fg, clayey; clay, red.
600 - 610	Shale, gray; sandstone, lt. gray; Sand, red to red-brown, clayey.
610 - 620	Sand, red to red brown, clayey; Clay, sandy
620 - 640	As above, very lt. gray sandstone
640 - 650	Sandstone, red-brown.
650 - 690	Clay, red to red brown, sandy.
690 - 700	Clay, red-brown; Sandstone, very lt. gray, fg, 25%.
700 - 710	Clay, red-brown; Shale, gray-green; Sandstone, v. lt. gray, 10% to 15%.
710 - 720	Clay, red-brown, sandy; Sandstone, v. lt. gray, 5%.
720 - 730	Sand, red-brown, fg-cg, clayey.
730 - 740	As above, Sandstone, v. lt. gray, 5%
740 - 750	Sand, red-brown, clayey; clay, pale green; shale, grey-green, trace.
750 - 760	Shale, red-brown, gray-green; Sandstone, v. lt. gray, fg, 10%-15% hard; Clayey Sand, red brown; Pebbles, black, small; trace Gypsum
769 - 770	Clay, red-brown, sandy
770 - 780	Clay, red to red-brown, silty; Sandstone, v. lt. gray, 10%
780 - 790	Clay, red to red-brown, sandy
790 - 810	As above, pale green mottling; trace Sandstone.
810 - 820	Clay, red-brown, sandy; trace Sandstone
820 - 830	Clay, red to red-brown & pale green, sandy
830 - 840	Sandstone, v. lt. gray to red, fg to mg, hard; Clay, red-brown
840 - 850	Clay, red-brown; Sandstone, 20%

RDH 48

DEPTH. FT.DESCRIPTION OF CUTTINGS

850 - 860	Clay, red to brown, sandy; Sandstone, lt. gray, fg, 40%, hard
860 - 870	As above, Sandstone, 20%
870 - 890	Shale, red; Sand, red-brown; Sandstone, 20%; trace Gypsum
890 - 900	Shale, red
900 - 910	Sand, red-brown, clayey, poorly sorted
910 - 920	As above, Clay, red-brown
930 - 940	Sandstone, lt. gray; pebbles, tiny; Agate, some
940 - 950	Shale, red, mottled, with lt. gray to pale green, trace gray-green Shale.
950 - 970	Sand, lt. brown; minor Clay, red-brown
970 - 980	Clay, red to red brown mottled green, sandy
980 - 990	As above, minor Sandstone, v.lt. gray
990 - 1000	As above, Sandstone, 50%
1000 - 1010	Clay, red, purple, brown, some mottled green; sandy Clay; Sandstone 5%.
1010 - 1020	Sand, some red clay
1020 - 1030	Clay, red-brown to purple, sandy.
1030 - 1040	Clay, red-brown to purple, 50%; Sand, 50%
1040 - 1050	As above, trace of Agate
1050 - 1080	As above, no Agate
1080 - 1100	As above, less Sand
1100 - 1110	Clay, red-brown to purple, mottled green, silty
1110 - 1120	As above, Sandstone, v.lt. gray, hard, 5-10%
1120 - 1130	As above, Sandstone soft
1130 - 1140	Clay, red to purple, mottled w/pale green, silty
1140 - 1160	As above.

RDH 48

<u>DEPTH. FT.</u>	<u>DESCRIPTION OF CUTTINGS</u>
1160 - 1170	As above, trace gray to green Clay
1170 - 1180	As above, trace Gypsum
1180 - 1190	As above, trace Agate
1190 - 1200	As above
1200 - 1220	Clay, purple to red-brown, silty; some Gypsum
1220 - 1230	Clay, purple to dark gray to red-brown with pale green mottling, silty
1230 - 1240	Clay, red to purple, some pale green mottling; some Gypsum, v.lt. gray
1240 - 1250	Clay, purple, brown, green, red, red-brown, silty & sandy
1250 - 1260	As above, some white Clay
1260 - 1270	Clay, dk purple, red-brown, gray-green to black
1270 - 1280	As above, gray & greens predominant, trace Gypsum, Pyrite
1280 - 1300	As above, trace Agate, no Pyrite
1300 - 1320	As above, silty, no Agate or Gypsum
1320 - 1330	As above, more gray-green Clay, purple to black
1330 - 1340	As above, poorly sorted
1340 - 1350	Clay, dk purple, gray, minor red-brown & gray-green, silty; trace Sandstone
1350 - 1360	Clay, gray-green to black, silty, locally micaceous.
1360 - 1370	Clay, chocolate brown; Sand, poorly sorted
1370 - 1380	Sand
1380 - 1390	As above
1390 - 1420	Sand, brown; Clay, brown
1420 - 1430	Sand, brown, poorly sorted, 60%; Clay, red-brown, & gray, 40%
1430 - 1440	Clay, brown, red, gray, silty; Sandstone, v.lt. gray, 10%, trace Gypsum, Agate.
1440 - 1450	As above, 5% Agate

RDH 48

<u>DEPTH. FT.</u>	<u>DESCRIPTION OF CUTTINGS</u>
1450 - 1460	Clay, brown to red-brown, silty; Sandstone, v. lt. gray
1460 - 1470	As above, mostly red-brown
1470 - 1480	As above, mostly green-gray, trace of Agate
1480 - 1490	As above, pale green mottling.
1490 - 1500	Sand, brown, mg to cg, rounded and subrounded; some Clay, brown to gray.
1500 - 1520	Clay, brown to red-brown mottled w/pale green, gray.
1520 - 1540	Clay, red-brown (silty), mottled pale green & gray, locally micaceous; clayey Sand; Sandstone, white to pale brown, fg. & mg., 3%, hard.
1540 - 1550	As above, traces of Gypsum & Agate
1550 - 1590	As above, soft Sandstone 1%
1590 - 1600	As above, Sandstone, white to pale brown, vfg to fg, 3%
1600 - 1610	Clay, brown to red-brown, silty, sandy, Sandstone as above
1610 - 1620	Siltstone, brown, sandy.
1620 - 1630	Sandstone, brown & lt. brown, vfg to fg, 50%; Clay, 50%
1630 - 1640	Clay, brown w/other colors; Sandstone, pale brown, 3%.
1640 - 1670	Sandstone, pale brown, fg to mg, rounded to subrounded, porous, 60%; Clay, 40%.
1670 - 1740	As above.

Note: 1740' to 1776' loss of circulation; no samples

W/D

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 #48 State

Location 1594' FNL, 2074' FWL

Sec. 8 Twp. 18N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease
State prospecting permit #08-27629

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.)

Plugged hole on 9/23-9/24
 Total depth 1776'
 cement plugs set by Halliburton

1480-1580	20 sacks
1200-1400	40 sacks
490-590	20 sacks
0-25'	5 sacks

6 5/8" casing to 539' left in hole

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SEP 30 1974

O & G CONS. COMM.

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

Signed Red P. Krier Title Advanced Wellhead Engineer Date 9/27/74

Permit No. 625

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

WPA

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 #48 State

Location 1594' FNL, 2074' FWL

Sec. 8 Twp. 18N Rge. 27E County Apache Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease State Prospecting Permit #08-27629

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 type="checkbox"/>						<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.)

Depth 6PM 9/20/74 - 1776 lost circulation w/caving problems attempting to drill to casing point w/aeriated mud

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O & G CONSV. COMM.

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

Signed Red K. Kuan

Title Advanced Geological Engineer Date 9/20/74

Permit No. 625

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
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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 #48 State
 Location 1594' FNL, 2074' FWL
 Sec. 8 Twp. 18N Rgn. 27E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease
State Prospecting Permit #08-27629

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.)

9/6/74 @ 6 PM - T.D. = 1757 ft
still have circulation problems & caving problems
plan to set about 500 ft of approximately 6 5/8" casing to control caving
in upper part of hole; will drill with "stiff foam" to casing point (approx 1850 ft)

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 O & G CONS. COMM.

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

Signed Neil J. Lurie Title Advanced Geological Engineer Date 9/8/74

Permit No. 625

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 Corp.
 2. Oil WELL GAS WELL OTHER (Specify) Stratigraphic Test
 3. Well Name Duval #48 State
 Location 2074' FWL, 1594' FNL
 Sec. 8 Twp. 18N Rge. 27E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease State #108-27629

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.)

Top Coconino - 1535ft?
T.D. @ 6PM 8/30/74 - 1752ft
Lost circulation and stuck pipe problems most of week, rig ~~temp~~ down at end of week

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 SEP 03 1974
 O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.
 Signed Neil P. Krueger THE Advanced Petroleum Engineer Date 8/31/74

Permit No. 625

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

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Duval Corp.
 2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test
 3. Well Name Duval #48 State
 Location 1594 FSL, 2074 FWL
 Sec. 8 Twp. 18N Rgn. 27E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease State #08-27629

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.)

Spud - 8/15/74
 Top Blow Sand - 0 ft
 Top Bidabachi - 40 ft?
 Top Chinle - 388 ft
 Top Shinarump - 1333 ft?
 Top Moenkopi - 1375 ft?
 Top Coconino - 1535 ft?
 Depth @ 6 PM 8/23/74 - 1590 ft
 8 5/8" casing to 45 ft set w/ 2 sacks cement
 some circulation problems below 1350 ft

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 O & G CONS. COMM.

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

Signed Red P. Kiron Title Advanced Geological Engineer Date 8/23/74

Permit No. 625

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

WV

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 #48 State
 Location 2074 FWL, 1594 FNL
 Sec. 8 Twp. 18N Rge. 27E County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease:
State Permit #08-27629

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"/>

(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.)

Spud in 8/16/74
depth about 50ft at 6PM, 8/16/74

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AUG 19 1974

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

Signed Neil P. Kover Title Advanced Geological Engineer Date 8/16/74

Permit No. 625

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

W.H.

9/13/74

Mr. Allen:

I'm sorry but I ran out of form #25. I am enclosing
the weekly progress report from Duval #48 State on plain paper.

I would appreciate it if you would send me a supply
of form #25.

Thanks

Ned P. Krier

% Chieftain Motel

P.O. Box 697

Chambers, Arizona 86502

RECEIVED

SEP 16 1974

O & G CONS. COMM.

WA

1. Duval Corp.
2. Stratigraphic Test
3. Duval #48 State
1594' FNL, 2074' FWL
Sec 8, T18N, R27E, Apache county Arizona
4. State Prospecting Permit #08-27629
5. —
6. Weekly Progress Report
7. T.D. @ 6 PM 9/13/74 - 1776
set 539 ft of 6 5/8" casing
most of week spent waiting on mechanic break downs.

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SEP 16 1974

O & G CONS. COMM.

8. Fred P. Krier Advanced Geological Engineer 9/13/74

permit No. 625

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	Well number	Elevation (ground)	
State Prospecting Permit #27629	48	6216'	
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:		
1,594 feet	N/A feet		
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:		
640	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)	
1594' FNL 2074' FWL	Sec. 8, T18N, R27E	N/A	
Field and reservoir (if wildcat, so state)	County		
	Apache		
Distance, in miles, and direction from nearest town or post office:			
10½ miles SSE of Navajo, Arizona			
Proposed depth:	Rotary or cable tools	Approx. date work will start	
2050'	Rotary	August 30, 1974	
Bond Status	Organization Report	Filing Fee of \$25.00	
Statewide - on file	On file <input checked="" type="checkbox"/> Or attached	Attached <input checked="" type="checkbox"/>	
Amount \$25,000.00			
Remarks:			
<p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Vice President</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.</p>			
<p>RECEIVED</p> <p>AUG 12 1974</p> <p>O & G CONS. COMM.</p>		<p style="text-align: right;">Signature: <u>B. G. Messer</u></p> <p style="text-align: right;">B. G. Messer, Vice President</p> <p style="text-align: right;">Date: <u>August 12, 1974</u></p>	
Permit Number: <u>#625</u>	STATE OF ARIZONA		
Approval Date: <u>8-14-74</u>	OIL & GAS CONSERVATION COMMISSION		
Approved By: <u>[Signature]</u>	Application to Drill or Re-enter		
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.	File Two Copies		
	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 State of Arizona	Land Description Section 8, T18N, R27E														
Surface & Mineral															
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Name</td><td>B. G. Messer</td></tr> <tr><td style="padding: 2px;">Position</td><td>Vice President</td></tr> <tr><td style="padding: 2px;">Company</td><td>Duval Corporation</td></tr> <tr><td style="padding: 2px;">Date</td><td>August 12, 1974</td></tr> </table> <p>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.</p> <p style="text-align: center;">See attached plat</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Date Surveyed</td><td>July 1974</td></tr> <tr><td style="padding: 2px;">Registered Professional Engineer and/or Land Surveyor</td><td>Sam Lee Kuder</td></tr> <tr><td style="padding: 2px;">Certificate No.</td><td>9490</td></tr> </table>	Name	B. G. Messer	Position	Vice President	Company	Duval Corporation	Date	August 12, 1974	Date Surveyed	July 1974	Registered Professional Engineer and/or Land Surveyor	Sam Lee Kuder	Certificate No.	9490
Name	B. G. Messer														
Position	Vice President														
Company	Duval Corporation														
Date	August 12, 1974														
Date Surveyed	July 1974														
Registered Professional Engineer and/or Land Surveyor	Sam Lee Kuder														
Certificate No.	9490														

PROPOSED CASING PROGRAM

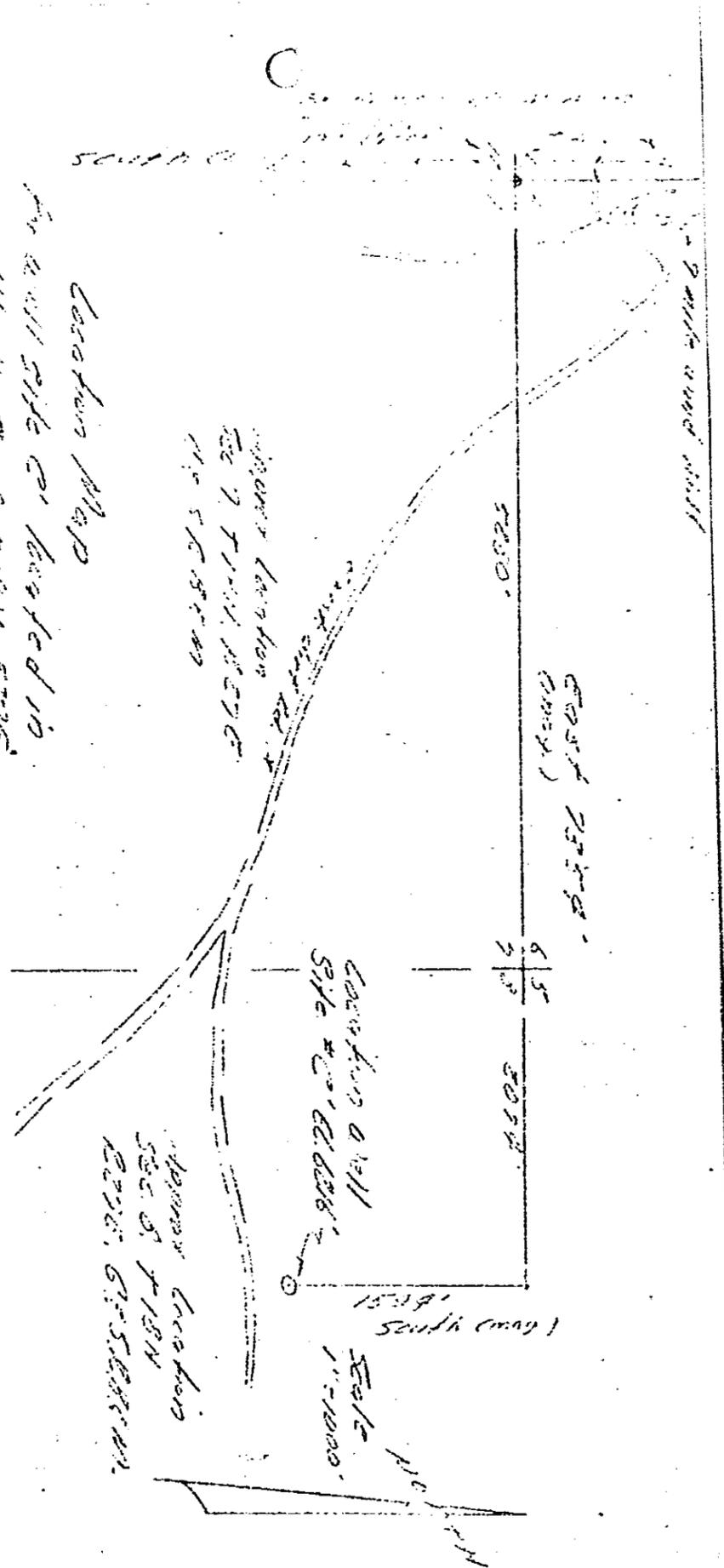
Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8-5/8"	24.0	K-55	0	20'	Entire	5 sacks
5-9/16"	10.2	Line pipe	0	1900'	1890-1900'	1 sack

Location Map
 The well site is located in
 the NW 1/4 Sec. 6, T15N, R22E,
 11th St. 1877-78, Apache Co., Ariz.

2 1/2 miles west of
 the well site
 This is to certify that the survey
 was made by me or under my
 supervision and that the
 location of the well is as shown
 on the map.

2/8
 18/17

Surveyors Note: Well site
 and location as shown in drawing
 Plans are under 15'



RECEIVED
 AUG 14 1914
 O & G CONS. COMM.

#625



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 #27629 Well Number 48
(WELL NAME)

located 1594' FWL - 2074' FWL

Section 8 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, 1974.

OIL AND GAS CONSERVATION COMMISSION

By W.B. [Signature]
EXECUTIVE SECRETARY

PERMIT N^o 625

RECEIPT NO. 138
SAMPLES ARE REQUIRED
API NO. 02-001-20194

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

XXXXXXXXXXXXXXXXXXXX

8686 N Central
Suite 106, 85020

XXXXX

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

RE: October Current File Material

Dear Kay:

Enclosed you will find the following current material for October.

Data: Completion report and miscellaneous reports on
Daval Corporation Well No. 47 & 48 #624 & #625

Logs - Gamma Ray Neutron Well No 47 - File 624

Thank you.

Saralee Lorenzo
Secretary

XXXXXXXXXXXXXXXXXXXX

XXXX 8686 N Central
Suite 106, 85020

October 28, 1975

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

Dear Rollo:

Enclosed please find pertinent information on our well Files
#624 & 625 for Duval Corporation.

Also enclosed is an invoice for \$2.10 for 6 copies at 35¢ each.
I am not charging you for the Sundry Notices because I was not
sure if you needed these or not. Please advise on this.

If we can be of further service, please advise.

Very truly yours,

Saralee Lorenzo
Secretary

Encls.

Oct 8, 1975
Follow-Up

Dural well no. 48, Permit #625
Confidentiality period over October 8, 1975.
Release from Confidential file &
send requested info. to:

Petroleum Information - All pertinent Info. ✓
Petro-well Libraries - All pertinent Info. and logs. ✓

10-14-75 ✓ Dr. Wbs Peirce (Univ. of Arz.) copy of Form 4

10-14-75 ✓ Joe Melling (State Land Dept) copy of Form 4

10/2/75
PW



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

RECEIVED

APR 10 1975

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

October 9, 1974

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

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

Dear Mr. Allen:

Enclosed are "Well Completion Report", Form No. 4 and a description
of the cuttings for our Well No. 48.

Sincerely,

Edward S. Montgomery

ESM:hdh
encl.

cc: Mr. B. G. Messer

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OCT 10 1974

O & G CONS. COMM.



5357 EAST PIMA TUCSON ARIZONA 85712

September 30, 1974

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

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

Dear Mr. Allen:

Enclosed are "Application to Abandon and Plug", Form No. 9 and
"Plugging Record", Form No. 10 for our well No. 48.

Sincerely,

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

Edward S. Montgomery
Senior Geologist

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

RECEIVED
OCT 01 1974
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O & G CONS. COMM.
OCT 1 1974
O & G CONS. COMM.

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	Duval Corporation #48	Duval Corporation #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

Very truly yours,

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

WEA/rlb

August 14, 1974

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

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

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

Duval Corp. #49
NW/NE Sec 6-T18N-R27E
Apache County
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 13 1974

O & G CONS. COMM.

625