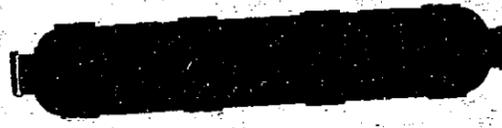


P.W.

**CONFIDENTIAL**

Release Date 3-7-73



COUNTY Yavapai AREA 40 mi. NW of Wickenburg LEASE NO. Fed A. 4571  
*Bullard Well Prospect*  
 WELL NAME BROWN & THORP *Re-entry of El Paso 1 Fed. (PN 533)*  
 LOCATION SE/NE SEC 3 TWP 10N RANGE 10W FOOTAGE 1247 FEL - 1400 FNL  
 ELEV 2216 GR 2229 KB SPUD DATE 8-20-72 STATUS 7eds (Strat) TOTAL 5687 feet logs  
 COMP. DATE 8-31-72 DEPTH 5685  
 CONTRACTOR Loffland Brothers Company

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	DRILLED BY CABLE TOOL	PRODUCTIVE RESERVOIR	INITIAL PRODUCTION
12 3/4"	30			X			
7 "	2005	570 sx					

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Quaternary				
Sediments	0			Operator reports drilling valley fill to a
Tertiary Sediments	1550			depth of 5540. From 5540 50 5630 volcanics
				Granite from 5630 to T.D. See sample log
				in separate file.

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
I.E., BHC-Sonic Log			X
			SAMPLE DESCRP.
			SAMPLE NO. 1720
			CORE ANALYSIS
			DSTs <u>43833</u>
			Intervals <u>5833-5685</u>
			Also Sample # 1628

REMARKS Mud logging unit on hole (SEE BACK SIDE FOR ADD. INFOR.)

APP. TO PLUG X  
 PLUGGING REP. X  
 COMP. REPORT X

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

BOND CO. Fidelity Deposit Company of Maryland BOND NO. 86-01-149  
 BOND AMT. \$ 5,000 CANCELLED \_\_\_\_\_ DATE \_\_\_\_\_  
 FILING RECEIPT 2924 LOC. PLAT X WELL BOOK X PLAT BOOK X  
 API NO. 02-025-20013 DATE ISSUED 7-14-72 DEDICATION E/2 of NE/4 - 80 acres  
20010-01 (re-entry of P/N 533)  
 PERMIT NUMBER 589

DRILL STEM TEST

NO.	FROM	TO	RESULTS

CORE RECORD

NO.	FROM	TO	RECOVERY	REMARKS

REMEDIAL HISTORY

DATE STARTED - COMPLETED	WORK PERFORMED	NEW PERFORATIONS

ADDITIONAL INFORMATION

REMARKS: This well drilled by El Paso Natural Gas Co. Plugged and abandoned  
 June 15, 1970 at T.D. of 3831. Well will be re-entered and drilled  
 to approximately 6000'. This well is a stratigraphic test. See Permit #533.

**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: **Brown & Thorp Oil Co.** Address: **Box 1029, McCamey, Texas 79752.**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Feñ. A-4571, Bullard Wash** Well Number: **1** Field & Reservoir: **Wildcat**

Location: **1247 FEL & 1400 FNL** County: **Yavapai**

Sec. TWP-Range or Block & Survey: **T-10-N; R-10-W, Sec. 3**

Date spudded: **8-20-72** Date total depth reached: **5685-8-29-72** Date completed, ready to produce: **Dry** Elevation (top of hole, RT or Gr.) feet: **2216** Elevation of casing hd. Range feet:

Total depth: **5685** 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): **3831-5685** Cable tools used (interval):

Was this well directionally drilled? Was directional survey made? Was copy of directional survey filed? Date filed:

Type of electrical or other logs run (check logs filed with the commission): **Integrated Sonic, Induction logs by Schlumberger** Date filed:

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Shocks cement	Am't. pulled
Surface	1 7/8	12-3/4		30'	1 cu yd	None
Intermed	9-5/8	7"	20#	2005	600 sx	None

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Shocks cement	Screen (ft.)
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PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
----------------	-------------	----------------	-------------------------------	----------------

INITIAL PRODUCTION

Date of first production: **dry hole** Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump):

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)
--------------	-------------	------------	-----------------------------	---------------------------	-------------------------------	--------------------------

Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio
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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.....**Manager**.....of the  
 ...**Brown & Thorp Oil Co.**.....(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: **September 7, 1972** Signature: *[Handwritten Signature]*

RECEIVED

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

SEP 08 1972  
 O & G CONS. COMM.

Permit No. **589**

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description
			<p>Complete geological sample log filed under separate cover</p>

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

**INSTRUCTIONS:**

Attach driller log or other acceptable log of well.

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

Form No. 4



APPLICATION TO ABANDON AND PLUG

FIELD Wildcat  
OPERATOR Brown & Thorp Oil Co. ADDRESS Box 1029, McCamey, Texas 79752  
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease Fed. A-4571 Bullard Wash WELL NO. 1  
SURVEY T-10-N; R10-W SECTION 3 COUNTY Yavapai  
LOCATION 1247 FEL & 1400 FNL

TYPE OF WELL Dry Hole (Oil, Gas or Dry Hole) TOTAL DEPTH 5685

ALLOWABLE (If Assigned)

LAST PRODUCTION TEST OIL \_\_\_\_\_ (Bbls.) WATER \_\_\_\_\_ (Bbls.)  
GAS \_\_\_\_\_ (MCF) DATE OF TEST \_\_\_\_\_

PRODUCING HORIZON \_\_\_\_\_ PRODUCING FROM \_\_\_\_\_ TO \_\_\_\_\_

1. COMPLETE CASING RECORD 12-3/4" at 30' ; 7" at 2005' w/ 570 sx cement

2. FULL DETAILS OF PROPOSED PLAN OF WORK Abandon by setting 20 sx plug 3050-3150;  
40 sx plug 1850 to 2050, 10 sx plug at surface

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

DATE COMMENCING OPERATIONS August 30, 1972

NAME OF PERSON DOING WORK R. M. Brooks ADDRESS see below

CORRESPONDENCE SHOULD BE SENT TO R. M. Brooks

Name  
Manager  
Title

Box 1029, McCamey, Texas 79752  
Address

August 30, 1972  
Date

Date Approved \_\_\_\_\_  
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. \_\_\_\_\_

RECEIVED

SEP 08 1972

O & G CONS. COMM.

Form 9-621  
(May 1968)

UNITED STATES DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)

Form approved  
Budget Account No. 43-7100

6. LEAD IDENTIFICATION AND SERIAL NO.  
Field # 4-437

6. IF INDIAN, ALLEGED OR OTHER NAME  
N/A

7. USE/ACQUISITION NAME  
None

8. NAME OF LEASE BLOCK  
Bullard Wash Prospect

9. WELL NO.

10. STATE AND COUNTY OF LOCATION  
Illinois

11. DATE OF PERMIT  
Jan. 2, 1972

12. DATE OF REPORT  
January 6, 1977

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

1. OIL WELL  GAS WELL  OTHER  **Stratigraphic Test**

2. NAME OF OPERATOR  
**Brown & Thorp Oil Company**

3. ADDRESS OF OPERATOR  
**Box 1029, McCaney, Texas 79752**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
**1247 FNL and 1400 FNL**

14. PERMIT NO.  
**Arizona 589**

15. ELEVATIONS (Show whether W, N, or, etc.)  
**2216 Gr.**

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT BY:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other) <b>Plug &amp; Abandonment</b>	<input checked="" type="checkbox"/>
(Other)	<input type="checkbox"/>		
FULL OR ALTER CASING	<input type="checkbox"/>		
MULTIPLE COMPLETS	<input type="checkbox"/>		
ABANDON*	<input type="checkbox"/>		
CHANGE PLANS	<input type="checkbox"/>		

(NOTE: Report results of initial operations in the Completion or Recombination Report.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including pertinent well numbers and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all major and trend parts pertinent to this work.)

Re-entered and deepened hole drilled by El Paso Nat. Gas Co. in 1951 plugged and abandoned June 15, 1970. Drilled out cement plug and wash hole clean to bottom at 3531. Drilled well to a depth of 3531 which was in granite basement. Plugged well by setting pipe at 20' ex 3050 to 3150, 40' ex 1856 to 2050, 10' ex in surface. Plug finished at Jan August 31, 1972. Cleaned up location and surroundings near as possible to natural state.

Note: Copies of logs will be forwarded upon receipt from BLM.

RECEIVED  
JAN 31 1977  
D & G CONS. COMM.

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

SIGNED [Signature] TITLE Manager DATE September 14, 1972

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE District Engineer DATE January 6, 1977

CONDITIONS OF APPROVAL, IF ANY: D. F. Russell

cc: Oil & Gas Conservation Commission, Arizona ✓  
BLM, Phoenix, Arizona

\*See Instructions on Reverse Side

589



Form 9-331  
(May 1963)

WA

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP NOTE  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-2149A

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Stratigraphic Test	5. LEASE DESIGNATION AND SERIAL NO. Fed. A-4571
2. NAME OF OPERATOR Brown & Thorp Oil Company	6. IF INDIAN, ALLOTTEE OR TRIBE NAME N. A.
3. ADDRESS OF OPERATOR Box 1029, McCamey, Texas 79752	7. UNIT AGREEMENT NAME None
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1247' FEL and 1400' FNL	8. FARM OR LEASE NAME Bullard Wash Prospect *
14. PERMIT NO. Arizona 589	9. WELL NO. 1
15. ELEVATIONS (Show whether LF, RT, GR, etc.) 2216 Gr.	10. FIELD AND POOL, OR WILDCAT Wildcat
	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 3, T-10-N, R-10-W
	12. COUNTY OR PARISH Yavapai
	13. STATE Arizona

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

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

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

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

Re-entered and deepened hole drilled by El Paso Nat. Gas. Co. to 3831 plugged and abandoned June 15, 1970. On August 20, 1972 we went in hole drilled out cement plugs and wash hole clean to bottom at 3831. Drilled well to a total depth of 5685 which was 65' into solid granite basement. Will plug well by setting plugs at 3150, 2050, and surface. After reserve pit dries out will clean up and level location to original state. (PN 533)

RECEIVED  
SEP 27 1972  
O & G CONS. COMM.

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

SIGNED [Signature] TITLE Manager DATE August 29, 1972

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE District Engineer DATE August 29, 1972

CONDITIONS OF APPROVAL, IF ANY: D. F. Russell

SEE ATTACHED DOCUMENTS  
\*See Instructions on Reverse Side

Oil & Gas Conservation Commission, State of Arizona

GEOLOGICAL SURVEY  
RECEIVED  
SEP 25 1972

WELL SITE CHECK

By W.E.A.

Date 8-23-72

Contractor Loffland.

Person(s) Contacted Mr. Therp.

Spud Date 8-20-72

Bud Bowden - T.P.

Type Rig Ideco <sup>Rotary</sup> Cable

Present Operations Drilling

Samples 10'

Drilling with Air  Mud

Pipe 7" @ 2005'

Size Hole 6 1/4

Water Zones NONE.

Size Drill Pipe 3 1/2

Lost Circ. Zones NONE.

Type Bit Hughes Carbide Tipped Button

Formation Tops \_\_\_\_\_

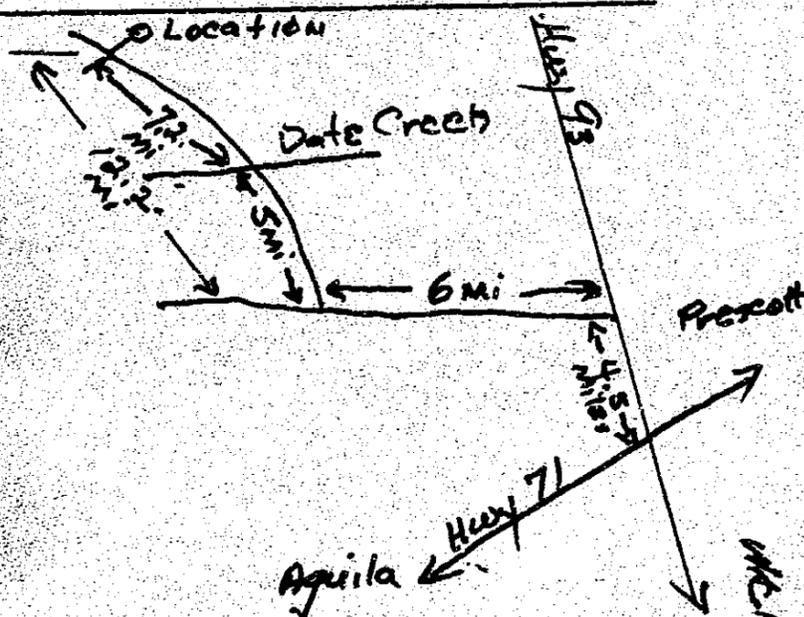
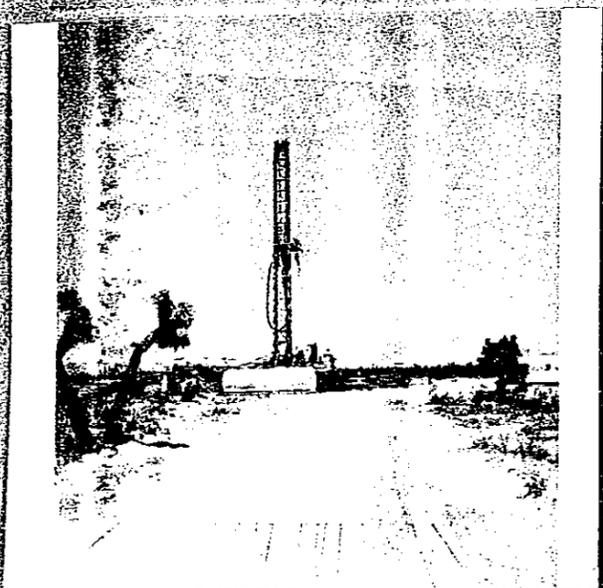
No. Bit \_\_\_\_\_ Drilling Rate 2-5 m. ft.

Cores, Logs, DST \_\_\_\_\_

Formation \_\_\_\_\_

Crews 3-4 MAN

Lithology Gneiss - schist



WELL NAME Brown & Therp  
Bullard Wash Prospect #1

Permit No. 587  
Confidential  Yes  No

W. E. A.

7-27-75



Brown & Thorp Bullard Wash No 1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL  DEEPEN  PLUG BACK   
 b. TYPE OF WELL: OIL WELL  GAS WELL  OTHER  Stratigraphic Test  
 c. NAME OF OPERATOR: Brown & Thorp Oil Company  
 d. ADDRESS OF OPERATOR: Box 1029, McCamey, Texas  
 e. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.):  
 At surface: 1400 FNL & 2700 FNL  
 At proposed prod. zone:  
 f. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 40 Miles Northeast of Wickenburg, Ariz.  
 g. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 1400 FNL  
 h. NO. OF ACRES IN LEASE: 1924.44  
 i. NO. OF ACRES ASSIGNED TO THIS WELL: N.A.  
 j. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.: None  
 k. PROPOSED DEPTH: 6000'  
 l. ROTARY OR CABLE TOOL: Rotary  
 m. ELEVATIONS (Show whether DF, RT, GR, etc.): 2216GR  
 n. APPROX. DATE WORK WILL START: Aug. 15, 1972

5. LEASE DESIGNATION AND SERIAL NO.: Fed. A 4571  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N. A.  
 7. UNIT AGREEMENT NAME: None  
 8. FARM OR LEASE NAME: Bullard Wash Prospect  
 9. WELL NO.: 1  
 10. FIELD AND POOL, OR WILDCAT: Wildcat  
 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA: Sec. 3, T-10-N, R10-W  
 12. COUNTY OR PARISH: Yavapai  
 13. STATE: Arizona

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	10-3/4	29'	27'	1 cu. yd. redi-mix
9-5/8	7"	20#	2005'	600 sacks - Circ 150 sz

This well Drilled by El Paso Natural Gas Co. and plugged and abandoned June 15, 1970 at a Total Depth of 3831'. Plugging report filed in U.S.G.S. office Farmington, N. Mex. June 19, 1970.

We propose to re-enter this well and deepen to a depth of approximately 6000'. Drilling contractor will furnished adequate Blow-out preventer and reserve mud pits to comply with U.S.G.S requirements

The Operator must contact the District Manager of the Bureau of Land Management for advice prior to building roads and moving on location. The District Manager's address is 3022 Federal Building, Phoenix, Arizona.

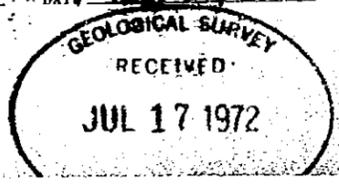
RECEIVED  
AUG 18 1972  
O & G CONS. COMM.

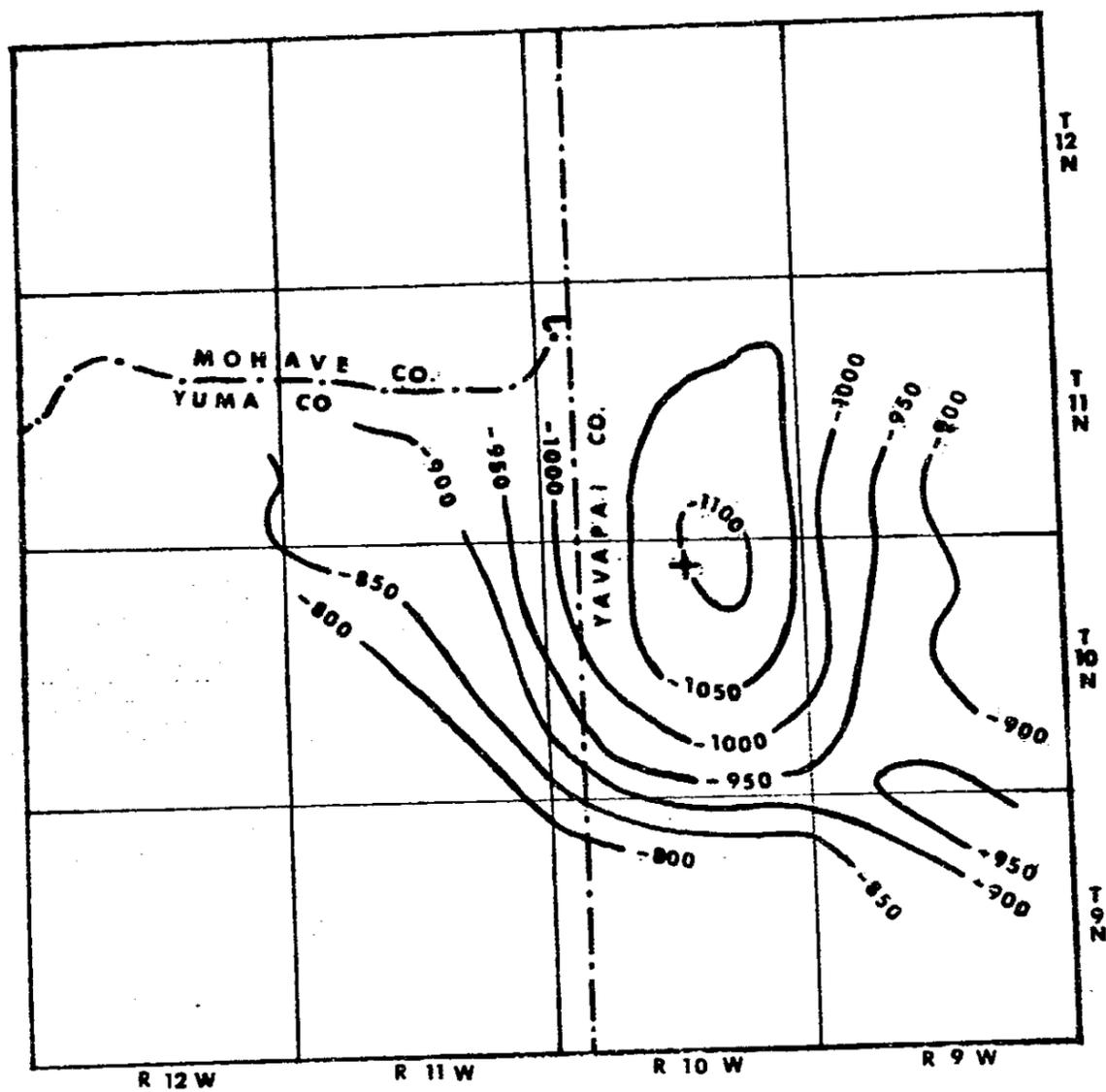
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED: *D. F. Russell* TITLE: Manager DATE: July 14, 1972  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY: *D. F. Russell* TITLE: District Engineer DATE: Aug. 14, 1972  
 CONDITIONS OF APPROVAL, IF ANY: D. F. Russell

cc - (2) BLM, Phoenix SEE ATTACHED CONDITIONS AND REQUIREMENTS  
 - BMC, L.A.  
 - Oil & Gas Conservation Commission, State of Arizona, Phoenix  
 \*See Instructions On Reverse Side





Isogal Contours ———

Test Well +

1 0 1 2 3 4 5 6 7  
SCALE IN MILES

Gravity Map of Bullard Wash area, as illustrated in Fig. 3 of "Gas Storage Application of Peaceful Nuclear Explosions," presented by Phillip L. Randolph at IAEA Panel on Peaceful Uses of Atomic Energy, Jan. 18-22, 1971.

**APPLICATION FOR PERMIT TO DRILL OR RE-ENTER**

APPLICATION TO DRILL

RE-ENTER OLD WELL

**BROWN & THORP OIL COMPANY**

NAME OF COMPANY OR OPERATOR

Address **Box 1029, McCamey, Texas 79752**

Drilling Contractor **Loffland Brothers Company**

Address **Box 2847, Tulsa, Oklahoma 74101**

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor <b>Fed. A-4571 Bullard Wash Prospect</b>	Well number <b>1</b>	Elevation (ground) <b>2216</b>
Nearest distance from proposed location to property or lease line: <b>1400 FNL &amp; 1247 FEL</b> feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <b>None</b> feet	
Number of acres in lease: <b>1924.44</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>-0-</b>	
If lease, purchased with one or more wells drilled, from whom purchased:	Name <b>El Paso Natural Gas Company,</b>	Address <b>600 Building of Southwest Midland, Texas 79701</b>
Well location (give footage from section lines) <b>1247 FEL &amp; 1400 FNL</b>	Section—township—range or block and survey <b>Sec. 3; T-10-N; R-10-W</b>	Dedication (Comply with Rule 105) <b>N.A. 80 acres</b>
Field and reservoir (if wildcat, so state) <b>Wildcat Stratographic Test</b>	County <b>Yavapai</b>	
Distance, in miles, and direction from nearest town or post office <b>40 Miles Northwest of Wickenburg</b>		
Proposed depth: <b>6000 feet</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>Aug. 15, 1972</b>
Bond Status <b>Applied for</b>	Organization Report On file <input type="checkbox"/> Or attached <input checked="" type="checkbox"/>	Filing Fee of \$25.00 Attached <input checked="" type="checkbox"/>
Remarks: <b>This well drilled by El Paso Natural Gas co. Plugged and abandoned June 15, 1970 at a Total Depth of 3831. We will re-enter and drill to approximately 6000 feet. This well is a stratographic test.</b>		

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

**CONFIDENTIAL**  
**RECEIVED**  
**JUL 13 1972**  
 Release Date \_\_\_\_\_ O & G CONS. COMM.

Signature *[Handwritten Signature]*  
 Date **July 11, 1972**

Permit Number: **#589**  
 Approval Date: **7-24-72**  
 Approved By: *[Handwritten Signature]*  
 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

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

Owner U. S. Dept. of Interior	Land Description Open Range
Section 3, T-10-N, R-10-W, Yavapai County, Arizona	
	<p style="text-align: center;"><b>CERTIFICATION</b></p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p> <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>Date Surveyed April 4, 1970</p> <p>Registered Professional Engineer and/or Land Surveyor Basil Smith</p> <p>Certificate No. _____</p>

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
12-3/4	60	J-55	Surf	30'	R&di Mix	1 cu yd.
7	24	J-C	Surf	2005'	2005 to 5' of	570 sx





# PERMIT TO DRILL

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

To: BROWN & THORP OIL COMPANY  
(OPERATOR)

to drill a well to be known as  
**BULLARD WASH PROSPECT NO. 1**

(WELL NAME)

located 1247' FEL & 1400' FNL

Section 3 Township 10N Range 10W, Yavapai County, Arizona.

The E/2 of NE/4 - 80 acres 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 21st day of July, 19 72.

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

OIL AND GAS CONSERVATION COMMISSION

By W.B. [Signature]  
EXECUTIVE SECRETARY

PERMIT No 589

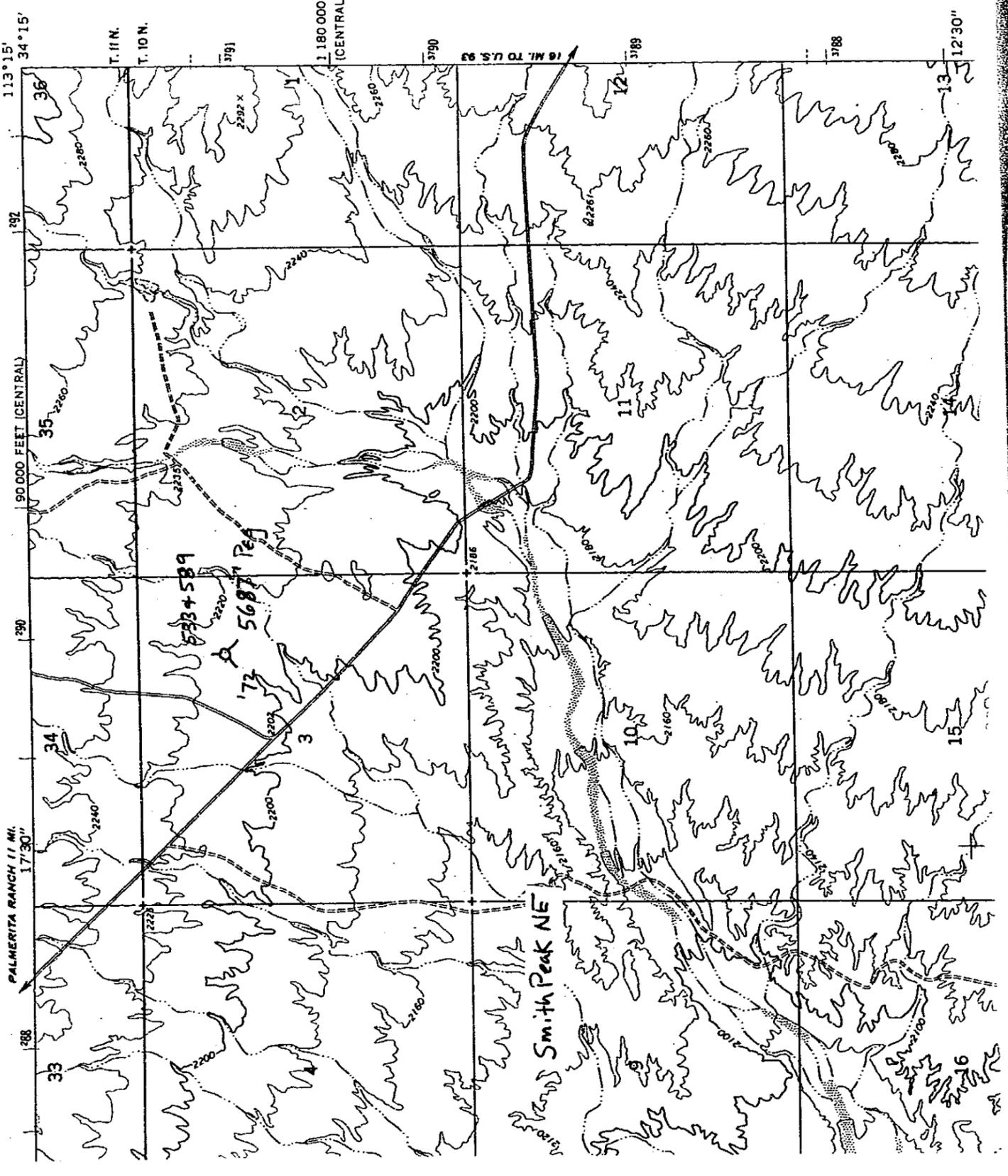
RECEIPT NO. 2924  
API NO. 02-025-20013

SAMPLES ARE REQUIRED

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

7.5 MINUTE SERIES (TOPOGRAPHIC)



& GAS CONSERVATION COMMISSION  
STATE OF ARIZONA  
8686 NORTH CENTRAL, SUITE 106  
PHOENIX, ARIZONA 85020



NOT DELIVERABLE AS ADDRESSED  
UNABLE TO FORWARD  
SAME HOUSTON STATION  
HOUSTON, TX 77052

Fidelity & Deposit Company of Maryland  
10th Floor, First City Nat'l. Bank Bldg.  
Houston, TX 77002

MAR 7 1977

OIL & GAS CONSERVATION COMMISSION  
STATE OF ARIZONA  
8686 NORTH CENTRAL, SUITE 106  
PHOENIX, ARIZONA 85020



NOT DELIVERABLE AS ADDRESSED  
JULIUS MELCHER STR  
HOUSTON, TX 77027

Fidelity & Deposit Company of Maryland  
P.O. Box 27148  
Houston, TX 77027

February 18, 1977

Mr. D. F. Russell, District Engineer  
United States Geological Survey  
309 Federal Building  
800 Truxtun Avenue  
Bakersfield, California 93301

Re: Brown & Thorp, Bullard Wash Prospect #1  
SE $\frac{1}{4}$ NE $\frac{1}{4}$  Sec. 3, T10N, R10W, Yavapai County  
State Permit #589  
Fidelity Deposit Company of Maryland Bond No.  
8686-01-149

Dear Don:

On Thursday, February 17th, I visited the above location and found that your boys did a creditable job in dressing up this location. Since they have eliminated this Commission's prior objections to the unsafe condition of this location, we are notifying the operators and the bonding company by copy of this letter that this Commission is releasing the above-referred bond as of this date.

Come by and visit us when you are in this area.

Very truly yours,

William E. Allen  
Director  
Enforcement Section

WEA/vb

cc - Fidelity Deposit Company of Maryland  
Jay Knauth  
Ed Thorp  
*See returned  
2 envelopes*

# Fidelity and Deposit Company

HOME OFFICE OF MARYLAND BALTIMORE

BONDING  INSURANCE

MAX D. SCOTT  
RESIDENT VICE-PRESIDENT  
JOHN H. TRUEHEART  
R. F. BONEWITZ  
MANAGERS  
D. L. STOCKMAN  
ASSOCIATE MANAGER  
V. A. BROWNING  
DUANE A. WARDEN  
ASSISTANT MANAGERS  
WILLIAM C. GERKE  
JAMES C. SPENCER  
GARY W. WHEATLEY  
SPECIAL REPRESENTATIVES

10TH FLOOR, FIRST CITY NAT'L BANK BLDG.  
HOUSTON, TEXAS 77002

PHONE CAPITOL 3-1371. AC 713

IN REPLY PLEASE REFER TO  
OUR FILE NO. ....

July 25, 1972

SAN ANTONIO OFFICE  
STEWART R. DUKE  
MANAGER

PAT J. MOORE  
SPECIAL REPRESENTATIVE  
THE SAN JACINTO BUILDING  
4242 PIEDRAS DRIVE, EAST  
SUITE 105  
SAN ANTONIO, TEXAS 78228  
512-735-5255

CORPUS CHRISTI OFFICE  
VERNON WALENTA  
MANAGER  
JAY A. LEGGETT  
SPECIAL REPRESENTATIVE  
701 WILSON TOWER BUILDING  
TELEPHONE TULIP 3-1581. AC 512

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

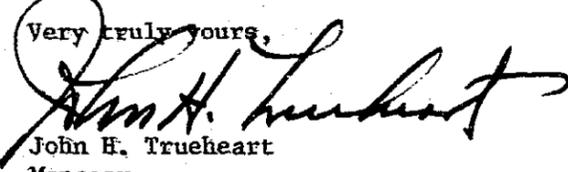
Re: Bond #86 01 149 - Brown & Thorp Oil Company  
Performance Bond for well drilling, oil, gas or  
stratigraphic purposes

Gentlemen:

At the request of Miss Lucienne Konz, of our Phoenix Branch  
Office, we are writing to inform you that the bond number  
for the above is as captioned.

Please advise if any further information is required.

Very truly yours,

  
John H. Trueheart  
Manager

JHT:pc

**CANCELLED**

DATE 7-18-77

RECEIVED

JUL 27 1972

O & G CONS. COMM.

# Fidelity and Deposit Company

HOME OFFICE OF MARYLAND BALTIMORE

BONDING



INSURANCE

A. GRANT KASSON, JR.  
MANAGER

528 SECURITY BUILDING  
PHOENIX, ARIZONA 85004

MIKAL F. CRONIN  
SPECIAL AGENT

TELEPHONE 254-9251

July 20, 1972

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

Re: Brown & Thorp Oil Company  
Performance Bond for well drilling, oil, gas or  
stratigraphic purposes

Gentlemen:

Enclosed is bond as captioned to be filed with your  
office.

Very truly yours,

A. Grant Kasson, Jr.  
Manager

lek  
encl

cy: Wayne W. Brown Agency  
P.O. Box 1148  
Beaumont, Texas 77704  
and to Mr. John Trueheart  
Houston Branch, F&D

**CANCELLED**

DATE 7-18-77

**RECEIVED**

JUL 21 1972

O & G CO. OF TEXAS

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS

Bond Serial No. 86-01-149

Bond Serial No.

That we: Brown & Thorp Oil Company

of the County of Jefferson in the State of Texas

as principal, and FIDELITY & DEPOSIT CO. of MARYLAND  
of BALTIMORE, MARYLAND

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona and the Oil and Gas Conservation Commission, hereinafter referred to as the "Commission", in the penal sum of Five Thousand and no/100 Dollars lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation are that, whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to-wit:

Sec. 3; T-10-N; R-10-W; 1247 FE1 & 1400 FN1

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

NOW, THEREFORE, if the above bounden principal shall comply with all the provisions of the Laws of this State and the rules, regulations and orders of the Commission, especially with reference to the requirements of A.R.S. §27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil and Gas Conservation Commission all notices and records required by said Commission, then in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, this obligation is void; otherwise it shall remain in full force and effect.

Whenever the principal shall be, and declared by the Oil and Gas Conservation Commission in violation of the Laws of this State and the rules, regulations and orders of the Commission, the surety shall promptly:

1. Remedy the violation by its own efforts, or
2. Obtain a bid or bids for submission to the Commission to remedy the violation, and upon determination by the Commission and the Surety of the lowest responsible bidder, arrange for a contract between such bidder and the Commission, and make available as work progresses sufficient funds to pay the cost of remedying the violation; but not exceeding, including other costs and damages for which the surety may be liable hereunder, the amount set forth in the first paragraph hereof.

Liability under this bond may not be terminated without written permission of this Commission.

WITNESS our hands and seals, this 13 day of July, 1972

E. W. Thorp

E. W. Thorp General Partner  
Principal

WITNESS our hands and seals this 18<sup>th</sup> day of July, 1972

FIDELITY & DEPOSIT CO. of MARYLAND

BALTIMORE, MARYLAND

COUNTERSIGNED BY

[Signature]

COUNTERSIGNING REPRESENTATIVE

[Signature]

Surety Resident Arizona Agent  
If agent of a State other than Arizona

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

Approved Date 7-24-72  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
By: [Signature]

STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
BOND  
Form No. 2  
RECEIVED  
JUL 19 72  
O & G C M

Permit No. 589

DATE 2-18-77

[Signature]

**Power of Attorney**  
**FIDELITY AND DEPOSIT COMPANY OF MARYLAND**  
 HOME OFFICE: BALTIMORE, MD.

KNOW ALL MEN BY THESE PRESENTS: That the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, a corporation of the State of Maryland, by JOHN C. GARDNER, Vice-President, and C. M. PECOT, JR., Assistant Secretary, in pursuance of authority granted by Article VI, Section 2, of the By-Laws of said Company, which reads as follows:

"The President, or any one of the Executive Vice-Presidents, or any one of the additional Vice-Presidents specially authorized so to do by the Board of Directors or by the Executive Committee, shall have power, by and with the concurrence of the Secretary or any one of the Assistant Secretaries, to appoint Resident Vice-Presidents, Resident Assistant Secretaries and Attorneys-in-Fact as the business of the Company may require, or to authorize any person or persons to execute on behalf of the Company any bonds, undertakings, recognizances, stipulations, policies, contracts, agreements, deeds, and releases and assignments of judgments, decrees, mortgages and instruments in the nature of mortgages, and also all other instruments and documents which the business of the Company may require, and to affix the seal of the Company thereto."

does hereby nominate, constitute and appoint Wayne W. Brown of Beaumont, Texas.....

its true and lawful agent and Attorney-in-Fact, to make, execute, seal and deliver, for, and on its behalf as surety, and as its act and deed: any and all bonds and undertakings, each in a penalty not to exceed the sum of ONE MILLION DOLLARS (\$1,000,000) EXCEPT bonds on behalf of Independent Executors, Community Survivors and Community Guardians.....

And the execution of such bonds or undertakings in pursuance of these presents, shall be as binding upon said Company, as fully and amply, to all intents and purposes, as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its office in Baltimore, Md., in their own proper persons. This power of attorney revokes that issued on behalf of Wayne W. Brown, dated April 15, 1953.

The said Assistant Secretary does hereby certify that the foregoing is a true copy of Article VI, Section 2, of the By-Laws of said Company, and is now in force.

IN WITNESS WHEREOF, the said Vice-President and Assistant Secretary have hereunto subscribed their names and affixed the Corporate Seal of the said FIDELITY AND DEPOSIT COMPANY OF MARYLAND, this 30th day of June, A.D. 1972.

ATTEST: **FIDELITY AND DEPOSIT COMPANY OF MARYLAND**  
 (SIGNED) C. M. PECOT, JR. By JOHN C. GARDNER  
 (SEAL) Assistant Secretary Vice-President

STATE OF MARYLAND } ss:  
 CITY OF BALTIMORE }  
 On this 30th day of June, A.D. 1972, before the subscriber, a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and qualified, came the above-named Vice-President and Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, to me personally known to be the individuals and officers described in and who executed the preceding instrument, and they each acknowledged the execution of the same, and being by me duly sworn, severally and each for himself deposed and saith, that they are the said officers of the Company aforesaid, and that the seal affixed to the preceding instrument is the Corporate Seal of said Company, and that the said Corporate Seal and their signatures as such officers were duly affixed and subscribed to the said instrument by the authority and direction of the said Corporation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the City of Baltimore, the day and year first above written.  
 (SIGNED) GLORIA J. COLEMAN  
 (SEAL) Notary Public Commission Expires July 1, 1974

**CERTIFICATE**

I, the undersigned, Assistant Secretary of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the original Power of Attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the Vice-President who executed the said Power of Attorney was one of the additional Vice-Presidents specially authorized by the Board of Directors to appoint any Attorney-in-Fact as provided in Article VI, Section 2 of the By-Laws of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND.

This Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 16th day of July, 1969.

RESOLVED: "That the facsimile or mechanically reproduced signature of any Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed."

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said Company, this 18th day of July, 1972.

**RECEIVED**

JUL 21 1972

*[Signature]*  
 Assistant Secretary

August 2, 1976

Mr. Ed Thorp  
Credo Oil & Gas, Inc.  
1221 Petroleum Building  
Beaumont, Texas 77701

Re: Bullard Wash Prospect #1  
SE/NE Sec 3 T10N R10W  
Yavapai County  
Bond 86-01-149

Dear Mr. Thorp:

Reference your letter dated July 29, 1976 regarding the release from Bond No. 86-01-150, our records indicate this bond number to be 86-01-149, payable to the State of Arizona.

As we have previously advised both you and Mr. Jay Knauth, the reserve pit serving this well was never filled and the cellar, rathole and mousehole have never been filled. The cellar, rathole and mousehole constitute a hazard to livestock and human beings. We have covered the rathole and mousehole with timbers in an effort to prevent livestock or people from falling in these holes. This covering with timber does not offer permanent protection.

As soon as the above hazards are eliminated, this Commission will be pleased to release this bond.

Sincerely,

William E. Allen  
Director  
Enforcement Section

WEA/vb

cc - Mary L. Taylor  
Fidelity & Deposit Co. of Md.

56-01-1419

CREDO OIL & GAS, INC.  
1221 PETROLEUM BUILDING  
BEAUMONT, TEXAS 77701  
PHONE 835-5941

RECEIVED  
AUG 2 1976  
O & G CONS. COMM.

July 29, 1976

Oil and Gas Conservation Commission  
8686 North Central, Suite 106  
Phoenix, Arizona 85020

RE: Bullard Wash  
Prospect #1  
SE/NE Sec 3-T10N-R10W  
Yavapai Co., P. #589

ATTENTION: Enforcement Section

Dear Sir:

We would like to know how we can be released from a bond (#8601150) to the U.S.A. on the above named Prospect.

Please let us hear from you as soon as possible, as it is past time for renewal of this bond and we would like to act on it as soon as we can.

Sincerely,  
*Ed Thorp*  
Ed Thorp

EWT:jef



*Open 3/78*

303-892-5513

## PETRO-WELL LIBRARIES INC.

150 Security Life Building  
1616 Glenarm Place  
Denver, Colorado 80202

December 3, 1974

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

Attention: Rhema Brandt

Dear Rhema:

We have your logs that you sent us for re-shoot and the girls were holding them to film at the same time they filmed our information we receive from North Dakota.

Unfortunately, North Dakota didn't send logs to us for two months. I just received them today, however; we will be filming the end of this week and returning your logs to you. I'm very sorry there has been this delay.

Did you receive your new system alright? I hope so. We have had trouble with mail and trucking companies lately so I worry about this.

I wish you and everyone at the Commission a Very Merry Christmas, and we look forward to a successful 1975.

Sincerely,

PETRO WELL LIBRARIES, INC.

*Kay Waller*  
Kay Waller  
Division Manager

KW/jr

*Logs returned  
12-18-74*

*See 5*

November 19, 1974

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

Dear Kay:

It was nice to hear from you again.

I haven't sent any update material for quite some time. I did, however, send two logs for a reshoot as requested in the attached correspondence from your office. As of this date our logs have not been returned to us. Perhaps you could check into this, Kay, and see what has happened to them.

We are looking forward to receiving our 1974 system.

Very truly yours,

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

/rlb

Enc.

Permit  
# 589



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

October 7, 1974

Ms. Jeanne  
Petro-Well Libraries Inc.  
2665 South Santa Fe Drive  
Building #5 - Unit #B  
Denver, Colorado 80237

Dear Ms. Jeanne:

Enclosed you will find the Bullard Wash #1 - Brown & Thorpe logs as requested in your recent letter for a reshoot. The two logs are BHCS-GR and IE logs.

If you need any additional information, please advise.

Very truly yours,

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

rlb

Encs.

Phema Brandt,

The following location was just recently given to me to call for a recheck. It is a backfile location. I will give it to you just as it was given to me and I hope you will understand it.

Arizona Logs

10N-10W-3-8

Bullard Wash #1

Co. - Brown & Thorpe Oil

KB-2229      GA-2216

IE log

Run 1      8-30-70

BHCS-GR log

Run 1      8-30-70

---

Originally file # 533  
looks like an RD of a  
well of same name  
oper. by El Paso Nat. Gas

Thank you,

Jeanne

RECEIVED

UCT 03 1974

O & G CONS. COMM.

August 12, 1974

Mr. Jay F. Knauth  
Brown & Thorp Oil Co.  
1221 Petroleum Bldg.  
Beaumont, Texas 77701

Re: Bullard Wash Prospect No. 1  
SE/NE Sec 3-T10N-R10W  
Yavapai County, Permit #589

Dear Mr. Knauth:

In reply to your recent letter concerning your clean up problem on the above referenced well. We are unable to recommend any contractors in the Wickenburg area to perform the needed work. I did check the old reliable reference book, the yellow pages of the telephone directory. I didn't come up with very much, but I am sending you some names of companies that might be able to do this work.

If we can be of any help in the future, please do not hesitate to call on us.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

Enc.

BROWN & THORP OIL CO.  
1221 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701  
835-7964

RECEIVED

JUL 31 1974

D & G CONS. COMM.

July 29, 1974

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

Re: Bullard Wash Prospect No. 1  
SE/NE Sec 3 TION-R10W-  
Yavapai County - Permit No. 589

Dear Mr. Allen:

I appreciate your prompt reply to my last letter and its information.

My problem is in finding someone to do the work for us. The dirt contractor we used has left the state and we are unfamiliar with any other.

Would it be possible for you to give us the name of one or more people who might accomplish this for us.

Thank you for your help.

Sincerely yours,

*Jay F. Knauth*  
Jay F. Knauth

JFK:jef

WA

BROWN & THORP OIL CO.  
1221 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701  
835-7964

July 12, 1974

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

Re: Bullard Wash Prospect No. 1, SEINE  
Sec. 3 T10N - R10W, Yauapai County  
Permit No. 589

Dear Mr. Allen:

We sincerely apologize for any trouble we may have caused you with respect to the above lease, but the man whom we hired to take care of this has apparently left the area. This I truly cannot understand because as a group, we had more fun drilling a dry hole there than any other; and there have been a few others. Yours is a most delightful and enjoyable climate.

If you would inform me as to your requirements, if any, it would be greatly appreciated. I hate to put you to any trouble, but the enthusiastic cooperation we experienced with your office while drilling leads me to believe that this will not be an undue imposition.

We appreciate very much the unhesitatingly way your office worked to promote the industry in Arizona. It is not dead in this area and we shall return.

Please let me hear from you.

Sincerely,

*Jay F. Knauth*  
Jay F. Knauth,  
General Counsel

JK:jef

RECEIVED

JUL 13 1974

O & G CON. COMM.

July 15, 1974

Mr. Jay F. Knauth  
Brown & Thorp Oil Company  
1221 Petroleum Building  
Beaumont, Texas 77701

Re: Bullard Wash Prospect No. 1  
SE/NE Sec 3-T10N-R10W  
Yavapai County  
Permit No. 589

Dear Mr. Knauth:

On July 19, 1973, we received a request for cancellation on the bond covering the above referenced well. On July 27, 1973, I checked the drilling location of this well and found that the cellar had not been filled, the rat and mouse holes were open and the pits had not been filled.

I notified Mr. Thorp of the condition of this location and requested that the location be cleaned to comply with our Rules and Regulations. I also informed Mr. Thorp that after the location was properly cleaned, this Commission would be happy to release the bond. In Mr. Thorp's reply dated August 9, 1973, he was to advise me when the location had been cleaned and ready for inspection. On November 1, 1973, I wrote Mr. Thorp to determine if the location had been cleaned. As of this date we have had no reply.

We repeat, as quickly as the location is cleaned, we will be happy to release the bond covering the referenced well.

Thank you very much for your nice letter of July 12, 1974.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

BROWN & THORP OIL CO.  
1221 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701  
835-7964

July 12, 1974

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

Re: Bullard Wash Prospect No. 1, SEINE  
Sec. 3 T10N - R10W, Yauapai County  
Permit No. 589

Dear Mr. Allen:

We sincerely apologize for any trouble we may have caused you with respect to the above lease, but the man whom we hired to take care of this has apparently left the area. This I truly cannot understand because as a group, we had more fun drilling a dry hole there than any other; and there have been a few others. Yours is a most delightful and enjoyable climate.

If you would inform me as to your requirements, if any, it would be greatly appreciated. I hate to put you to any trouble, but the enthusiastic cooperation we experienced with your office while drilling leads me to believe that this will not be an undue imposition.

We appreciate very much the unhesitatingly way your office worked to promote the industry in Arizona. It is not dead in this area and we shall return.

Please let me hear from you.

Sincerely,

*Jay F. Knauth*  
Jay F. Knauth,  
General Counsel

JK:jef

RECEIVED

JUL 15 1974

O & G CONSERV. COMM.

November 1, 1973

Mr. E. W. Thorp  
Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77701

Re: Bullard Wash Prospect No. 1  
SE/NE Sec 3-T10N-R10W  
Yavapai County  
Permit No. 589

Dear Mr. Thorp:

Will you please advise this office if the clean up on the above referenced well has been completed.

If this has been accomplished, we will check the location and if everything is in order, we will then be in a position to release your bond.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb



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

October 29, 1973

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

Dear Mr. Strickland:

As per your request of October 25, 1973, we are sending you the following logs that you have requested with two exceptions: The Geothermal Kinetics #1 Power Ranches well is still in confidential status and we do not have logs on the Kerr-McGee Corp. #10 Santa Fe.

Kerr-McGee Corp. #5 Santa Fe, 23-20N-28E, Apache Co., Permit #407  
Sonic Log and Induction Electrical Log

Kerr-McGee Corp. #11 Santa Fe, 24-19N-27E, Apache Co., Permit #413  
Borehole Compensated Sonic Log and Induction-Electrical Log

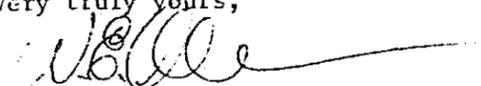
Kerr-McGee Corp. #12 Santa Fe, 22-20N-27E, Apache Co., Permit #414  
Borehole Compensated Sonic Log and Induction-Electrical Log

Brown & Thorpe #1 Bullard-Wash, 3-10N-10W, Yavapai Co., Permit #589  
Borehole Compensated Sonic Log and Induction-Electrical Log

Arkla Expl. Co., #10 N.M.A., 27-16N-23E, Navajo Co., Permit #359  
Radioactivity Log

Due to a recent ruling of the State Finance Department, it is required that this Commission charge postage on the mailing of various matter, i.e., logs, well records and so forth. The postage for mailing the above logs comes to \$.83. Please make check payable to the Oil and Gas Conservation Commission.

Very truly yours,

  
W. E. Allen, Director  
Enforcement Section

WEA/rlb

Encs.

# Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



October 25, 1973

## CASPER, WYOMING

BOB FITZGERALD  
PETE. BLDG. ARCADE  
PHONE 234-6922

## MIDLAND, TEXAS

DAVID CLARK  
104 WEST WALL  
PHONE 482-0591

Mr. W. E. Allen  
Oil & Gas Conservation Commission  
State of Arizona  
4515 N. 7th Ave.  
Phoenix, Arizona 85013

Dear Mr. Allen,

May we borrow from you the logs on the following wells:

1. Kerr-McGee Corp.	#5 Santa Fe	23-20N-28E	Apache, Wyo.
2. Kerr-McGee Corp.	#10 Santa Fe	23-20N-27E	Apache, Wyo.
3. Kerr-McGee Corp.	#11 Santa Fe	24-19N-27E	Apache, Wyo.
4. Kerr-McGee Corp.	#12 Santa Fe	22-20N-27E	Apache, Wyo.
5. Gesthermal Kinetics	#1 Power Ranches	1-2S-6E	Maricopa, Ariz.
6. Brown & Thorpe	#1 Bullard-Wash	3-10N-10W	Yavapai, Ariz.
7. Arkla Expl. Co.	#10 N.M.A.	27-16N-23E	Navajo, Ariz.

They will be returned promptly upon completion of our re-production process.

Thank you for your cooperation

Very truly yours,

Rocky Mountain Well Log Service Co.

*Ted Strickland*  
By: Ted Strickland

RECEIVED

OCT 27 1973

U.S. DEPARTMENT OF THE INTERIOR

August 24, 1973

Miss Mary L. Taylor  
Fidelity and Deposit Company  
of Maryland  
P. O. Box 27148  
Houston, Texas 77027

Re: Brown & Thorp Oil Company  
Performance Bond No. 86-01-149  
Oil & Gas Commission Permit No. 589

Dear Miss Taylor:

I am enclosing a copy of our letter dated July 27, 1973 to Brown and Thorp regarding your request of cancellation.

Before we can release the above referenced bond, Brown and Thorp must complete the clean up of the well location to the satisfaction of the Commission and then notify us of their intentions regarding the bond.

If we can be of any further assistance, please advise.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

Rhema L. Brandt  
Secretary to W. E. Allen

/rlb

Enc.



## Fidelity and Deposit Company

BONDING

OF MARYLAND

INSURANCE

Suite 500, 777 South Post Oak Building, P. O. Box 27148, Houston, Texas 77027, Phone (713) 627-0040

Max D. Scott  
Resident Vice-President

R. F. Bonewitz  
John H. Trueheart  
Managers

D. L. Stockman  
Associate Manager

V. A. Browning  
Duane A. Warden  
Assistant Managers

William C. Gerke  
W. R. Hames  
Nolan L. Jones, Jr.  
James C. Spencer  
Special Representatives

**SECOND REQUEST**  
**IMMEDIATE REPLY REQUESTED**

July 19, 1973

8-20-73

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

Re: 86 01 149 - BROWN & THORP OIL COMPANY  
Oil Well Drilling Performance Bond

Gentlemen:

On July 13, 1972 our Company issued the above captioned  
Oil well drilling performance bond.

We have now been advised that this bond is no longer needed and  
should be cancelled as of July 13, 1973. Please let us have a  
letter releasing our Company of any further liability as of that date.

For your convenience in replying, I am enclosing a stamped self-  
addressed envelope.

Thank you.

Yours very truly,

*Mary L. Taylor*  
Mary L. Taylor (Miss)  
Renewal Department

MLT/s  
Enclosure

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AUG 23 1973

O & G CONS. COMM.

BROWN & THORP OIL CO.  
1247 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701

RECEIVED

AUG 13 1973

O & G CONS. COMM.

August 9, 1973

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

Re: Bullard Wash Prospect #1  
SE/NE Sec 3-T10N-R10W  
Yavapai County  
Permit No. 589

Dear Mr. Allen:

We are following up on our letter to you  
of July 31 concerning the above Prospect.

We have talked to Bob Way of Wickenburg  
and found out he has sold his equipment and  
has gone out of the dirt moving business. He  
is now employed in Wickenburg as a Deputy Sheriff.  
However, he agreed to rent the equipment and  
clean up the location for us. According to him  
it has been raining there for seven days and he  
will do the work immediately as soon as the ground  
is dry enough.

We will keep on top of this until we get  
it done. We appreciate your consideration in  
this matter.

Yours truly,

*E.W. Thorp*  
E.W. Thorp

EWT:jef

W.R.  
BROWN & THORP OIL CO.  
1247 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701

July 31, 1973

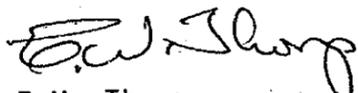
Mr. W.E. Allen, Director  
Oil and Gas Conservation Commission  
State of Arizona  
4515 North 7th Ave.  
Phoenix, Arizona 85013

Re: Bullard Wash Prospect No. 1  
SE/NE Sec. 3-T10N-R10W  
Yavapai County  
Permit No. 589

Dear Mr. Allen:

We are very sorry that the location on the above well has not been properly cleaned up. We left instructions with Bob Way of Wickenburg to take care of this since he made the original location. He attempted to clean up the location in November but it was too wet. For this inexperience we paid him \$389.00. He promised us he would do the work as soon as it was dry enough. We even informed the BLM people to notify him when it was ready. We know all these excuses do not get the job done and we will take steps immediately to get it cleaned up. You were so helpful to us when we were in Arizona last year that it is embarrassing that you had to notify us of this problem.

Yours truly,

  
E.W. Thorp

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AUG 01 1973

O & G CONS. COMM.



OFFICE OF

**Oil and Gas Conservation Commission**

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

*Handwritten signature and date: 7/27/73*

July 27, 1973

Mr. E. W. Thorp  
Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77701

Re: Bullard Wash Prospect No. 1  
SE/NE Sec 3-T10N-R10W  
Yavapai County  
Permit No. 589

Dear Mr. Thorp:

We have received a request from your bonding company for cancellation of the bond covering the above referenced well. The request for cancellation of the bond should originate with the operator. In this instance, however, it would make no difference because all the rules and regulations of the Oil and Gas Conservation Commission have not been complied with. The reserve pit needs to be filled, the cellar needs to be filled, and the mouse hole and rate hole are open. Probably, due to rains, the rat and mouse holes have become enlarged to a considerable extent and pose a very definite hazard to livestock and any humans that might venture into this location.

If you wish the bond cancelled, please complete this clean up to the satisfaction of this Commission and then notify the Commission that the clean up has been made. If you do not wish to cancel the bond, we will still insist that this clean up be made as quickly as possible in order to eliminate the hazards involved.

Very truly yours,

*Handwritten signature of W. E. Allen*

W. E. Allen, Director  
Enforcement Section

WEA/rlb

cc - R. M. Brooks



## Fidelity and Deposit Company

BONDING

OF MARYLAND

INSURANCE

Suite 500, 777 South Post Oak Building, P. O. Box 27148, Houston, Texas 77027, Phone (713) 627-0040

Max D. Scott  
*Resident Vice-President*  
R. F. Bonewitz  
John H. Trueheart  
*Managers*

D. L. Stockman  
*Associate Manager*  
V. A. Browning  
Duane A. Warden  
*Assistant Managers*

William C. Gerke  
W. R. Hames  
Nolan L. Jones, Jr.  
James C. Spencer  
*Special Representatives*

July 19, 1973

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

Re: 86 01 149 - BROWN & THORP OIL COMPANY  
Oil Well Drilling Performance Bond

Gentlemen:

On July 13, 1972 our Company issued the above captioned  
Oil well drilling performance bond.

We have now been advised that this bond is no longer needed and  
should be cancelled as of July 13, 1973. Please let us have a  
letter releasing our Company of any further liability as of that date.

For your convenience in replying, I am enclosing a stamped self-  
addressed envelope.

Thank you.

Yours very truly,

*Mary L. Taylor*  
Mary L. Taylor (Miss)  
Renewal Department

MLT/s  
Enclosure

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JUL 26 1973

O & G CONS. COMM.

WA

BROWN & THORP OIL CO.  
1247 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701

April 5, 1973

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

Dear Mr. Allen:

Enclosed please find our sample log of our Bullard  
Wash well #1 located in Yavapai County, Arizona. We were  
unable to pick any tops as to age.

*by Core Lab*

Hope this lithology will enable you to complete your  
file.

Sincerely,

*E. W. Thorp*  
E. W. Thorp

EWT/kc

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APR 09 1973

O & G CONS. COMM.

WA

BROWN & THORP OIL CO.  
1247 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701

April 5, 1973

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

Dear Mr. Allen:

Enclosed please find our sample log of our Bullard  
Wash well #1 located in Yavapai County, Arizona. We were  
unable to pick any tops as to age.

*by Core Lab*

Hope this lithology will enable you to complete your  
file.

Sincerely,

*E. W. Thorp*  
E. W. Thorp

EWT/kc

RECEIVED

APR 09 1973

O & G CONS. COMM.

March 21, 1973

Mr. E. W. Thorp  
Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77701

Re: Brown & Thorp Bullard Wash Prospect No. 1  
SE/NE Sec 3-T10N-R10W  
Wavapai County  
Permit No. 589

Dear Mr. Thorp:

In order to complete our files on the above referenced well,  
we need to receive from you the formation tops from 3831' to  
total depth on the above referenced well.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

cc - Mr. Raymond Brooks

WA

BROWN & THORP OIL CO.  
1247 PETROLEUM BLDG.  
BEAUMONT, TEXAS 77701

October 25, 1972

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

Re: Brown & Thorp Bullard Wash Prospect #1  
SE/NE Section 3-T10N-R10W  
Yavapai County  
Permit No. 589

Attention: Mr. W. E. Allen, Director  
Enforcement Section

Dear Mr. Allen:

We started drilling our Bullard Wash Well No. 1 at a depth of 3831'. At this point we were in Valley Fill and remained in this formation until we encountered volcanics at 5540'. We drilled volcanics, mostly Rhyolite, to 5630' where we hit the basement complex. Granite was drilled from this point to a total depth of 5686'.

Very truly yours,

  
E. W. Thorp

EWT/kc

cc. Mr. Raymond Brooks

RECEIVED  
OCT 27 1972  
O & G CONS. COMM.

October 3, 1972

Mr. Raymond Brooks  
Brown & Thorp Oil Company  
P. O. Box 1029  
McCombs, Texas 79752

Re: Brown & Thorp Bullard Wash Prospect No. 1  
SE/NE Section 3-T10N-R10W  
Yavapai County  
Permit No. 589

Dear Mr. Brooks:

Would you please furnish this office with the formation tops  
on the above referenced well. Your early cooperation in this  
matter will be appreciated.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

C. W. BROWN, PARTNER  
E. W. THORP, PARTNER  
R. M. BROOKS, MANAGER

PHONE 652-8611  
AREA CODE 915  
P. O. BOX 1029

**Brown & Thorp Oil Company**

McCAMEY, TEXAS 79752

October 2, 1972

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

RE: Brown & Thorp Prospect  
Bullard Wash No. 1  
SE/NE Sec. 3-T10N-R10W  
Yavapai County  
Your File No. 589

Attention: Mr. W. E. Allen Director  
Enforcement Section

Dear Sir:

Please find enclosed finished print of Schlumberger  
sonic log and induction log and also Core Lab sample  
log on the above referenced well.

Sorry for the delay but we just received the finished  
print from Schlumberger over the week end. If there  
are any further requirements on this well please let  
us know.

Yours truly,

*R. M. Brooks*

R. M. Brooks

encs.

RMB/hb

RECEIVED

OCT 3 1972

589

September 26, 1972

Brown & Thorp Oil Company  
Mr. Raymond Brooks  
P. O. Box 1029  
McCamey, Texas 79752

Re: Brown & Thorp Bullard Wash Prospect No. 1  
SE/NE Section 3-T10N-R10W  
Yavapai County  
Our File No. 589

Dear Mr. Brooks:

It would be appreciated if you would furnish this office with copies of the logs that you ran on the above referenced well as quickly as possible. Your cooperation is appreciated.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rlb

C. W. BROWN, PARTNER  
E. W. THORP, PARTNER  
R. M. BROOKS, MANAGER

PHONE 652-8611  
AREA CODE 915  
P. O. BOX 1029

**Brown & Thorp Oil Company**

McCAMEY, TEXAS 79752

September 7, 1972

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

Attention: Mr. Bill Allan

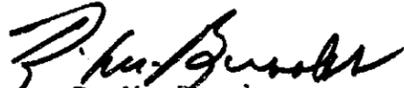
Dear Sir:

Please find enclosed Forms 9, 10 and 4, Final Reports  
on the Bullard Wash Well #1, Yavapai County.

You will note the final TD was 5685 feet. After we  
delivered the final cut to your office and while waiting  
on the logging unit we drilled an additional 23 feet  
which was all dark dense granite. A complete cut of  
this interval is being mailed to you under separate  
cover.

We appreciate very much the great cooperation given  
to us by your commission while we were drilling this  
well. We plan to do further work in Arizona and will  
look forward to the same cordial relationship we enjoyed.

Yours truly,

  
R. M. Brooks.

RMB/hb

PS: Will send finished prints of electric and sample logs  
as soon as we receive them.

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SEP 08 1972

O & G CONS. COMM.

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APR 05 1973

O & G CONS. COMM.

CORE LABORATORIES, INC.  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

September 5, 1972

Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77704

Attention: Mr. E. W. Thorp

Subject: Mud and Cuttings Analysis  
Bullard Wash No. 1 Well  
Wildcat  
Yavapai County, Arizona  
Location: Sec. 3, T-10N-R10W

Gentlemen:

A mobile laboratory of Core Laboratories, Inc. was present at the site of the above well during drilling operations between the depths of 3831 and 5656 feet. Using standard equipment and procedures, a one-man logging unit was used to continuously monitor the drilling fluid for hydrocarbon content. Drill cuttings were inspected at regular intervals for oil and gas content and lithology. To supplement the hot wire gas detector, a Programmed Hydrocarbon Detector (gas chromatograph) was used for detecting and measuring each hydrocarbon in the total gas. The results of the observations are shown on the attached Grapholog with other pertinent information, including drilling rate data and drilling fluid properties.

Should there be any questions, please contact us.

We are very pleased to have been of service and trust this information has assisted in evaluating this property.

Very truly yours,

Core Laboratories, Inc.

*R A Bartlett*

R. A. Bartlett  
West Texas Logging Manager

RAB:dl

Distribution of Final Reports

27 Copies

Mr. E. W. Thorp  
Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77704

3 Copies

Mr. R. A. Ulrich  
El Paso Natural Gas Company  
Box 990  
Farmington, New Mexico 87401

July 21, 1972

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

Dear Mrs. Ratcliff:

The following permit was issued since July 14, 1972.

Brown & Thorp Bullard Wash Prospect No. 1  
SE/NE Section 3-T10N-R10W  
Yavapai County  
Our File No. #589

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/rib

July 21, 1972

Brown & Thorp Oil Company  
Mr. R. M. Brooks  
P. O. Box 1029  
McCamey, Texas 79752

Re: Brown & Thorp Bullard Wash Prospect No. 1  
SE/NE Section 3-T10N-R10W  
Yavapai County  
Our File No. #589

Dear Mr. Brooks:

Enclosed please find Receipt No. 2924, covering the \$25 filing fee, a copy of your approved Application for Permit to Drill and Permit to Drill No. 589.

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

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

Encs.

C. W. BROWN, PARTNER  
E. W. THORP, PARTNER  
R. M. BROOKS, MANAGER

PHONE 652-8611  
AREA CODE 915  
P. O. BOX 1029

**Brown & Thorp Oil Company**

McCAMEY, TEXAS 79752  
July 11, 1972

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

Gentlemen:

Please find enclosed Form 3, Application to Re-Enter the Bullard Wash Well #1, drilled, plugged and abandoned by El Paso Natural Gas Company on June 15, 1970. We will deepen this well to approximately 6000 feet as a stratigraphic test. Also find enclosed Organization Report as this is our first operation in Arizona.

We have studied your rules and regulations and intend to comply as follows:

- 1) Bond has been applied for and will be furnished shortly.
- 2) You will be notified upon moving in of rig and deepening commenced.
- 3) Crews and geologists in charge will be instructed to give full cooperation to any of your representatives.
- 4) A complete set of samples will be secured for you as instructed by you in D-1-68, and these will be delivered to you in your Phoenix office.
- 5) Two copies of any and all logs on this well will be furnished you.
- 6) Form 25, Weekly Progress Report, will be furnished as instructed.
- 7) Upon completion of well a copy of drilling time, bit record and well cost information will be furnished as instructed.

We herewith request that this well be drilled tight and all information other than that furnished on Form 3 be kept confidential.

Please let us know of any other requirements that might be due on this project. We will be in your office sometime in the near future before starting this well.

We appreciate very much your consideration.

Yours truly,



R. M. Brooks

RECEIVED

JUL 13 1972

O & G CONS. COMM.

#589