

Release Date 6-1-68

CONFIDENTIAL

P-W

Oil Discovery #1 Federal
NE SE 17-19N-6E Coconino County

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 **Oil Discovery Corporation** Address **Box 790 Sedona, Arizona 86336**

Federal, State or Indian Lease Number or name of lessor if fee lease **AR 034554 Federal** Well Number **1** Field & Reservoir **Wildcat**

Location **1617' FSL, 642' FEL Sec. 17, T19N R6E** County **Coconino**

Sec. TWP-Range or Block & Survey

Date spudded **10-21-67** Date total depth reached **3253** Date completed, ready to produce **P&A 12-1-67** Elevation (DF, RKB, RT or Gr.) **7,000 gr.** feet Elevation of casing hd. flange **-----** feet

Total depth **3253** 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 **P&A** Rotary tools used (interval) **0-3253** Cable tools used (interval)

Was this well directionally drilled? **no** Was directional survey made? **no** Was copy of directional survey filed? **no** Date filed **-----**

Type of electrical or other logs run (check logs filed with the commission) **Induction-Elect. Schlumberger: Sidewall Neutron Porosity Log** Date filed **12-15-67**

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	13 3/4	9 5/8	32.30	154'	100	none
Inter.	8 3/4	7 5/8	24.00	698'	50	none

TUBING RECORD

LINER RECORD

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

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth interval	Amt. & kind of material used	Depth interval

INITIAL PRODUCTION

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

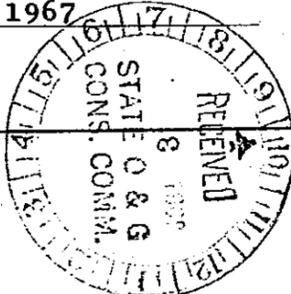
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)

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 **President** of the **Oil Discovery 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 **December 21, 1967** Signature **Earl Higgins**



Permit No. **436**

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

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Tertiary Volcanics	Surface +7012	*6902	Very hard Malipai; badly fractured & cavernous.
Permian:			
Kiabab	+6902	+6587	Tops unstable; severe lost circulation.
Coconino	+6587	+5812	Fairly stable; rapid drilling; min. L.C.
Supai	+5812	+4612	Drilling & L.C. normal
Pennsylvanian			
Naco	+4612	+4112	" " "
Mississippian			
Redwall	+4112	+3967	" " " Thinner than expected.
Devonian	*3967	+3902	" " " Upper zones encountered. Believe we faulted out.
Martin			
Pre Cambrian?	+3902	+3753	Very hard. Bit wore over 1" dia. last 50'. Last 3' quartzitic granite. See Well Report for detailed info. Total depth of well: 3253'

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

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved
Budget Bureau No. 42-R355.6

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESTR. Other _____

2. NAME OF OPERATOR
Oil Discovery Corp.

3. ADDRESS OF OPERATOR
P. O. Box 790, Sedona, Arizona

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface **1617' FSL, 642' FEL**
 At top prod. interval reported below
 At total depth **Same**

5. LEASE DESIGNATION AND SERIAL NO.
AR 034554

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. NAME OR LEASE NAME
Oil Discovery

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T. R. N. OR BLOCK AND SURVEY OR AREA
Sec 17, T19N, R6E

12. COUNTY OR PARISH
Coconino

13. STATE
Arizona

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUDDED **10-21-67** 16. DATE T.D. REACHED **11-29-67** 17. DATE COMPL. (Ready to prod.) **P&A 12-1-67** 18. ELEVATIONS (DP, RKB, BT, OR, ETC.)* **7000' Gr.** 19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD **3253** 21. PLUG. BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY _____ ROTARY TOOLS **0-3253** CABLE TOOLS _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
P & A

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Schlumberger: Sidewall Neutron Porosity Log Induction - Electrical Log

27. WAS WELL CORED
NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8	32.30	154'	13 3/4	100 SACKS	NONE
7 5/8	24.00	698'	8 3/4	50 SACKS	NONE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL

32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZER PERFORATION

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS/OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

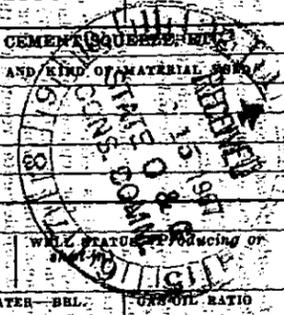
35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Gene M. Thomas TITLE **Petroleum Geologist** DATE **12-11-67**

*(See Instructions and Spaces for Additional Data on Reverse Side)

436



INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 28, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 25.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 38. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 27: "Sacks' Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES, POROSITY AND CONTENTS, TIMBERLY, CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, PEAKING AND SURF-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	NAME	DESCRIPTION, CONTENTS, ETC.
	BOTTOM	MEAS. DEPTH	TRUE VERT. DEPTH
Volcanics Kaibab Coconino Supal Naco Redwall Martin Pre & Sed.	0 110 425 1200 2400 2900 3045 3110	Volcanics Kaibab Coconino Supal Naco Redwall Martin Pre E	ls, buff, f-sln, bhty ss, buff, f-m-g, porous ss & sltstn, rd ss, sltstn, ls, rd ls, wht, ds - f-xln dol, mott purp, ds sh & quartzite, purp, grn, hd
	110 425 1200 2400 2900 3045 3110	0 110 425 1200 2400 2900 3045 3110	0 110 425 1200 2400 2900 3045 3110

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

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

2. NAME OF OPERATOR
Oil Discovery Corp.

3. ADDRESS OF OPERATOR
P. O. Box 790, Sedona, Arizona

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface **1617' FSL, 642' FLL**

5. LEASE DESIGNATION AND SERIAL NO.
AR 034554

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Oil Discovery

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T. R. M., OR B.L. AND SURVEY OR AREA
Sec 17, T19N, R6E

12. COUNTY OR PARISH
Cochonino

13. STATE
Arizona

14. PERMIT NO.

15. ELEVATIONS (Show whether of, ft, gr, etc.)
7000' Gr.

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

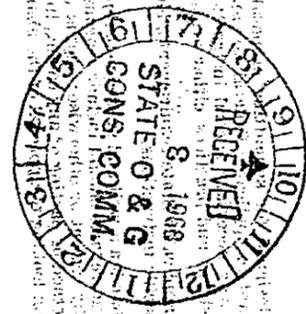
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>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

This well was plugged and abandoned 12-1-67 in the following manner:

Plugs:
 3110-3010' - 25 sacks
 2950-3850' - 25 sacks
 2450-2350' - 25 sacks
 10- 0' - 5 sacks



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

SIGNED *Gene M. Thomas* TITLE Petroleum Geologist DATE 12-11-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

436

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

AR 034554

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Oil Discovery

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 17, T19N, R6E

12. COUNTY OR PARISH

Cocconino

13. STATE

Arizona

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

2. NAME OF OPERATOR

Oil Discovery Corp.

3. ADDRESS OF OPERATOR

P. O. Box 790, Sedona, Arizona

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 1617' FSL, 642' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, GR, etc.)

7000' Gr.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENTS

(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.)

Ran 23 jts., 7 5/8", H-40, 24.00#. Set @ 698'. Cemented with 50 sacks 2% cacl. PD 5:30 P.M., 11-14-67.



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

SIGNED John W. Johnson TITLE Petroleum Geologist DATE 12-11-67

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

436

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
AR 034554

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Oil Discovery

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Bildcat

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
Sec 17, T19N, R6E

12. COUNTY OR PARISH
Coconino

13. STATE
Arizona

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

2. NAME OF OPERATOR
Oil Discovery Corp.

3. ADDRESS OF OPERATOR
P. O. Box 790, Sedona, Arizona

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface **1017' FSL, 642' FEL**

14. PERMIT NO.

15. ELEVATIONS (Show whether of, at, or, etc.)
7000' Gr.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

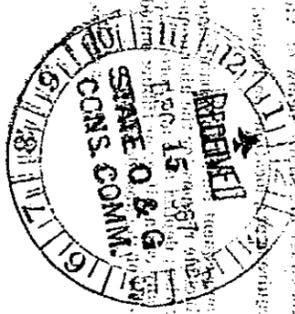
ALTERING CASING

ABANDONMENT*

(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.)*

**Ran 5 jts., 9 5/8", H-40, 32.30, set @ 154'.
Cemented with 100 sacks, 2 Ca Cl. Pd 2:00 A.M., 10-31-67**



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

SIGNED *David M. Thomas*

TITLE **Petroleum Geologist**

DATE **12-11-67**

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

436

*See Instructions on Reverse Side

November 30, 1967

Dave Thomas telephoned:

Re: Oil Discovery #1 Federal
Permit 436

Request permission to plug.

698' of 7' pipe will remain in hole.

Plugs: 2350-2450
2850-2950
3010-3110

Tops:	Supai	1150
	Nacho	2400
	Mississ	2900
	Martin	3040
	Pre-camb	3110
	TD	3253

Verbally approved by U.S.G.S.

Samples will be delivered to Four Corners Sample Cut, logs to be forwarded to office.

JB

WELL SITE CHECK

By JB
 Date 11-26-67
 Contractor _____ Person(s) Contacted Tom Wiggam
Dave Thomas
 Spud date _____
 Type Rig _____ Rotary _____ Cable _____
 Present Operations Making Trip
TD 3014'
 Samples _____
 Pipe _____ Drilling with Air _____ Mud
 Water Zones _____ Size Hole _____
 Lost Circ. Zones _____ Size Drill Pipe _____
 Formation Tops _____ Type Bit _____
 Cores, Logs, DST _____ No. Bit 28 Drilling Rate _____
 Formation Top of Res (?)
 Crews _____ Lithology _____

REMARKS, PHOTO, MAP

Temp. Survey showed 7" pipe cemented OK -
 Still running water trucks (2). Keep
 4" stream of water into mud pits while drilling
 losing some mud while drilling but can
 keep up with loss. Drilling easy since 7" run.
 Have made as much as 300' with one hit
 Have made as little as 68' with one
 hit - roughly 1600' thru 2100' interval.

TD at this time 3014'

WELL NAME Oil Base. #1 Fed

Permit No. 436
 Confidential: Yes No

UNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Oil Discovery Corporation
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Oil Discovery #1
 Location 1617' FSL 642' FEL
 Sec. 17 Twp. 19N Rge. 6E County Coconino Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Fed. AR 034554

5. Field or Pool Name Wildcat

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"/>
FRACTURE TREAT	<input type="checkbox"/>	DIRECTIONAL DRILL	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	PERFORATE CASING	<input type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>	MONTHLY PROGRESS	<input type="checkbox"/>
(OTHER) _____				REPAIRING WELL	<input type="checkbox"/>
				ALTERING CASING	<input type="checkbox"/>
				ABANDONMENT	<input type="checkbox"/>
				(OTHER) <u>Notice of spud date</u>	<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.)

Spud: Oct. 21, 1967 5:30 PM

Ran 5 joints 9 5/8", 32.30#, H-40 csg. set @ 154'. Cemented with 100 sacks, 2% CaCl.

PD 2:00 AM Oct. 31, 1967

Ran 23 jts. 7 5/8" 24.00# H-40, set at 698' with 50 sks. cement, 4% CaCl.

PD 4:00 PM Nov. 11, 1967



8. I hereby certify that the foregoing is true and correct. As per report of Dave Thomas, Geologist
 Signed Earl Huggins Title President Date Nov. 20, 1967

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

Permit No. 436

#436

Telephone 11-13-67 Earl Higgins

Fighting lost circulation: using
cinders and salt gel - series of
squeezes. (Drilling w/ mud)

Will run 7" to 725' (or 712?) -
with collars turned. Will drill
out with 6 $\frac{3}{4}$ " bit and finish hole
w/ 4 $\frac{3}{4}$ " bit. Plan to drill with
air in top Redwall. (Have spent
approx \$30,000 thus far - rough estimate.)

Telephone 11-30-67 Earl Higgins

Top Kaibab 120 ft

" Coconino ?? - (no returns thru here)

" Supai 1550 approx

Drilling @ 2400 w/ bit # 11.

(Still drilling with mud.)

Drilled 107' last 12 hrs.

4³/₆

WELL SITE CHECK

Contractor Tom Wiggam Person(s) Contacted J.B.
 Spud date _____ Date 11-8-67
 Type Rig _____ Rotary Cable _____ Present Operations drilling @
 Samples _____ 709'
 Pipe _____ Drilling with Air water only Mud _____
 Water Zones _____ Size Hole 9 5/8"
 Lost Circ. Zones 154(?) Size Drill Pipe _____
 Formation Tops _____ Type Bit _____
 Cores, Logs, DST _____ No. Bit _____ Drilling Rate _____
 Formation _____
 Crews _____ Lithology _____

REMARKS, PHOTO, MAP

Dr. having difficulty going in & coming out. Hole bridging
 Running 4 water trucks 24 hrs per day - can't keep
 water for more than 10 hrs dly. Trucks cost \$14.00 per
 hour. Drilled from 549 to 705 between 3:30 pm &
 8: pm. Ran out of water. Operator so far has \$58,000
 in well, road (\$18,000 est), mud etc. Has mudded up 7 times
 & lost it. Operator wants to fill hole with 3/4" cinders
 each time tools pulled - hopes this will fill lost cir. zone
 & give something to hold a treatment of modeling
 plaster & cinders. Stockholders meeting today - they
 will be asked to put up more money or plug or
 go until present money gone. If well can be drilled
 Operator expects to cut 900' of Coconino. One of the crew

WELL NAME Oil Discovery #1 Federal

Permit No. 436
 Confidential: Yes No

found a cavern 15' deep within 50 yds of
location. One crewmember went down into hole -
he said it spread out in all directions as
far as he could see - he had no light - 60'-65'

WELL SITE CHECK

Contractor Tom Whigham Person(s) Contacted DAVE THOMAS
 Spud date _____ Date 11-3-67
 Type Rig _____ Rotary _____ Cable _____
 Present Operations Cementing
 Samples _____
 Pipe _____ Drilling with Air _____ Mud
 Water Zones _____ Size Hole _____
 Lost Circ. Zones _____ Size Drill Pipe _____
 Formation Tops _____ Type Bit _____
 Cores, Logs, DST _____ No. Bit _____ Drilling Rate _____
 Formation _____
 Crews _____ Lithology _____

REMARKS, PHOTO, MAP

Set 9 5/8 at 154 1/2' w/120 sx.; Very hard
 drilling in basalt (igneous) rock. Have
 had no returns since 50 feet. This
 tough drilling is hard on rig.

WELL NAME Oil Discovery #1 Fed.

Permit No. 436
 Confidential: Yes No

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

Oil Discovery Corporation
NAME OF COMPANY OR OPERATOR

Box 790 Kachina Bldg. Sedona, Arizona 86336
Address City State

Thomas G. Whigham
Drilling Contractor
624 Ridge Lea Court Farmington, New Mexico 87401
Address

DESCRIPTION OF WELL AND LEASE

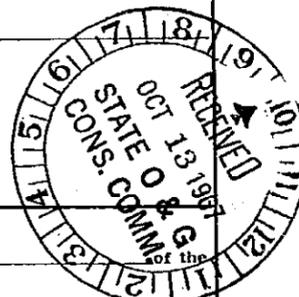
Federal, State or Indian Lease Number, or if fee lease, name of lessor BLM AR 034554	Well number 1	Elevation (ground) 7000' MSL
Nearest distance from proposed location to property or lease line: 600 feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: no other in area feet	
Number of acres in lease: 1203.6	Number of wells on lease, including this well, completed in or drilling to this reservoir: none	
If lease, purchased with one or more wells drilled, from whom purchased: N/A	Name	Address

Well location (give footage from section lines) 642' FSL, 625' FSL Sec. 17	Section—township—range or block and survey T. 19N R. 6E. G&SR Mer.	Dedication (Comply with Rule 105) EASE Sec. 17 80 a.
Field and reservoir (if wildcat, so state) Wildcat	County Coconino	

Distance, in miles, and direction from nearest town or post office
(Road miles) Flagstaff, Ariz. 21 miles. SOUTH

Proposed depth: 4,000 ft.	Rotary or cable tools Rotary	Approx. date work will start October 15, 1967
Bond Status Applied for	Organization Report	Filing Fee of \$25.00
Amount \$5,000.00	On file Or attached <input checked="" type="checkbox"/>	Attached <input checked="" type="checkbox"/>

Remarks:



CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **President** of the **Oil Discovery 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.

Earl Higgins
Signature

Sept. 20, 1967
Date

Permit Number: **436**
Approval Date: **10-13-67**
Approved By: *John Pannester*

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

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

Form No. 3

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO
As per BLM Lease.
- 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	Land Description

SECTION 17

CERTIFICATION

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

Name: *Earl Higgins*

Position: **President**

Company: **Oil Discovery Corp.**

Date: **Sept. 19, 1967**

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.

Leroy C. Gaberel

Leroy C. Gaberel

Date Surveyed: **Sept. 19, 1967**

Registered Professional Engineer and/or Land Surveyor

Leroy C. Gaberel

Leroy C. Gaberel

Certificate No. **5230**

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10 1/2"	40#	J55	Surf.	200'	200'	100
7"	20#	J55	"	2000'	2000'	200
4 1/2"	9 1/2#	J55	"	3800'	3800'	200



1:25,000
MOUNTAIN VIEW
3000 FT. 15 MIN.

Durison Hill 75'

L N O

Crater Sinks

Park

Fry Lake

F O R E S T

Sterling Canyon

Durison Hill 75'

D G E

Bazzani Poppy

1:25,000
MOUNTAIN VIEW
3000 FT. 15 MIN.

2'30"

15

22



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

OIL DISCOVERY CORPORATION

To: _____
(OPERATOR)

to drill a well to be known as

OIL DISCOVERY #1 FEDERAL

(WELL NAME)

located **1617' FSL & 642' FRL (NE/4SE/4)**

Section **17** Township **19N** Range **6E**, **Cocconino** County, Arizona.

The **E/8 SE/4** 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 **13th** day of **October**, 19 **67**.

OIL AND GAS CONSERVATION COMMISSION

By *John Bannister*
EXECUTIVE SECRETARY

PERMIT N^o 436

RECEIPT NO. 9524

State of Arizona
Oil & Gas Conservation Commission

Permit to Drill

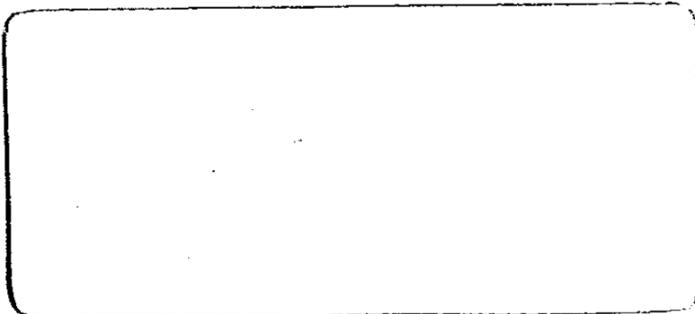
FORM NO. 27

API # 02-005-20001

#436

17-19N-6E

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1624 WEST ADAMS - SUITE 202
TELEPHONE: 271-5161
PHOENIX, ARIZONA, 85007



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OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
1624 WEST ADAMS - SUITE 202
TELEPHONE: 271-5161
PHOENIX, ARIZONA, 85007
DAVE THOMAS JR.
CERTIFIED PETROLEUM GEOLOGIST
FARMINGTON, NEW MEXICO

436

WELL REPORT
OIL DISCOVERY CORPORATION
OIL DISCOVERY #1
COCONINO COUNTY, ARIZONA

OIL & GAS CONSERVATION COMMISSION
STATE OF ARIZONA
3624 WEST ADAMS - SUITE 202
TELEPHONE: 271-5161
PHOENIX, ARIZONA. 85007

436

WELL REPORT
OIL DISCOVERY CORP: OIL DISCOVERY #1
COCONINO COUNTY, ARIZONA

LOCATION

1617' from the south line and 642' from the east line of Section 17,
Township 19 North, Range 6 East.

ELEVATION

7000' Ground
7010' derrick floor
7012' kelley drive bushing

CONTRACTOR

T. G. Whigham, Rig #1, Unit 34, Rotary tools

SPUD AND COMPLETION DATA

Well commenced: October 21, 1967
Well completed: December 1, 1967, Plugged and abandoned
Total Depth: 3253'

Plugging program:

0- 10'	5 sacks
2350-2450'	25 sacks
2850-2950'	25 sacks
3010-3110'	25 sacks

CASING

Surface: 9 5/8" @ 154' with 100 sacks
Intermediate: 7 5/8" @ 698' with 50 sacks

ELECTRICAL SURVEYS

Schlumberger: Induction-Electrical Log from 698' to 3246'
Schlumberger: Sidewall Neutron Porosity Log from 0' to 3246'

FORMATION TOPS

	Depth	K.B. Datum
TERTIARY		
Volcanics	Surface	+7012
PERMIAN		
Kiabab	110'	+6902
Coconino	425'	+6587
Supai	1200'	+5812

	Depth	K.B. Datum
PENNSYLVANIAN Naco	2400'	+4612
MISSISSIPPIAN Redwall	2900'	+4112
DEVONIAN Martin	3045'	+3967
PRE CAMBRIAN? Sediments	3110'	+3902
TOTAL DEPTH	3253'	+3759

WELL CUTTINGS

10' samples from 710' to 3253'(T.D.)
Samples described below.

0-60	No samples
60-70	100% volcanics
70-710	No samples
710-20	100% cavings
720-50	100% ss, cons, lt or, salmon, f-m-g, domin f-g, SA-SR, porous, friable, N-S
750-60	100% ss, aa, v-f-f-g, calc, tite
760-800	100% ss, aa, domin f-g, domin lt or
800-900	100% ss, cons, lt or-salmon, f-m-g, domin f-g, porous in part, calc & tite in part
900-10	100% ss, aa bcm domin finer grained, calc, tite
910-1120	100% ss, aa, porous & friable, sl calc, in part
1120-70	100% ss, aa, bcm tite, calc, domin lt or in color
1170-80	100% ss, cons, or-rd brn, f-g, porous in part, calc & tite in part

TOP SUPAI 1200' LOGS

1180-1220	No samples. Lost circulation
1220-1400	100% ss, aa, calc & tite: Tr porous ss, aa:

1400-60 100% ss, or-rd brn, f-g, cons, calc, tite
 1460-1510 No samples
 1510-60 100% ss, aa
 1560-1770 100% ss, aa, sl/shy in part: Tr sh, rd brn, silty
 in part,
 1770-1810 100% ss, rd brn, v--f-f-g, calc, shy, tite: Tr sh, aa
 1810-20 No samples
 1820-30 aa
 1830-40 No samples
 1840-2000 Lithology, aa
 2000-80 100% ss, or, cons, f-g SA-SR, calc, sl/porous in part
 2080-2100 90% ss, aa, bcm sl/shy: 10% sh, rd brn
 2100-2240 100% ss, as 2000-80
 2240-70 70% ss, aa: 30% ss, wht, v-f-f-g, calc, tite
 2270-90 80% siltstn, rd brn, dol, hd, sdy & shy in part: 20%
 ss, aa
 2290-2350 100% siltstn, aa: Tr ss, aa
 2350-60 90% siltstn, aa: 10% dol, rose mott, ds, hd, tite
 2360-70 100% siltstn, aa: Tr dol, aa
 2370-80 No sample
 2380-2400 100% siltstn, aa: Tr dol, aa: Tr sh, rd brn, dol,
 sdy & silty in part: Tr ss, wht, v-f-g, dol, tite, N-S

TOP NACO 2400' LOGS

2400-20 90% siltstn, aa, v/dol: 10% dol, aa
 2420-30 90% siltstn, aa: 10% dol, aa: Tr ls, tan, ds, hd, tite
 2430-40 90% siltstn, aa: 10% ls, gy-tan, ds, hd, sdy in part:
 Tr dol, aa
 2440-90 50% ls, rd brn, ds, hd, tite, v/argill: 50% siltstn, aa:
 Tr dol, aa: Tr sh, rd brn, calc

2490-2530 100% sltstn, aa, calcite inclus: Tr ls & dol, aa

2530-40 50% ls, rose, v/f-xln, sdy, argill, tite, N-S: 50%
sltstn, aa

2540-50 90% sltstn, aa: 10% ss, wht, cons, f-g, calc, tite

2550-60 100% ss, wht-or, cons, f-g, SA-SR, sl/por, N-S:
Tr sltstn, aa

2560-70 50% ss, aa: 50% sltstn, aa

2570-80 100% ss, aa: Tr sltstn, aa

2580-90 70% sltstn, aa: 30% ss, aa, bcm v/calc & tite: Tr
ls, gy, f-xln, sdy, tite, N-S

2590-2600 70% ss, aa: 30% sltstn, rd brn, calc: Tr ls, aa

2600-10 80% sltstn, aa: 20% ls, mott red brn, ds, argill:
Tr of trans eht: Tr ss, aa

2610-20 90% sltstn, aa, dol: 10% dol, vari colored, ds, argill

2620-30 100% ss, lt or-rd brn, v-f-f-g, SA-SR, dol, tite, hd,
N-S, argill in part

2630-40 80% ss, aa: 20% ls, mott rose-moa purp, ds, sdy,
tite, N-S

2640-70 100% ss, aa: Tr ls, aa

2670-80 100% ss, or, v-f-g, sl/dol, argill, tite, N-S

2680-90 50% ss, aa: 50% sltstn, aa

2690-2700 80% sltstn, aa: 20% ss, aa

2700-10 100% sltstn, aa: Tr ls, aa: Tr ss, aa

2710-30 90% sltstn, aa: 10% ls, lt gy, ds, sdy in part, N-S:
Tr ss, aa

2730-40 70% sltstn, aa: 30% ss, lt or, v-f-f-g, argill SA-SR,
calc, N-S: Tr ls, aa

2740-50 50% ss, aa: 60% sltstn, aa: Tr ls, aa

2750-60 40% ss, aa: 50% sltstn, aa: 10% ls, rose-mott purp,
ds, sdy: Tr sh, rd brn, dol

2760-70 90% sltstn, rd Brn, dol, sdy in part: 10% ls, rose,
ds, sdy: Tr ss, aa

2770-80 80% ss, lt or, v-f-f-g, dol, tite: 20% sltstn, aa:
Tr ls, aa

2780-2810 40% ss, aa: 40% sltstn, aa: 20% ls, rd brn, ds, argill

2810-20 90% sltstn, aa: 10% ss, aa: Tr ls, aa: Tr sh, w/ls
nod

2820-30 100% sltstn, aa, calcite inclus: Tr ls: Tr ss, aa

2830-80 80% ss, or-rd brn, v-f-f-g, cons, calc, SA-SR, abt
fltg c-g: 10% sh, rd brn, dol: 10% sltstn, aa

2880-90 lith aa, ss bcm v-f-g, grdg to sltstn, argill

TOP REDWALL 2900' LOGS

2890-2910 100% ss, rd brn, v-f-g, calc, silty, argill: Tr ls,
aa: Tr fltg ss, grs

2910-20 90% ss, aa: Tr fltg ss, grs: 10% ls, wht-buff, chlky
in part: N-S

2920-40 90% ls, wht, ds, v/f-xln; Tr intra xln por, N-S,
intbdd gy & wht opaque cht, chlky in part: 10% ss, aa

2940-50 100% ls, aa: Tr ss, aa

2950-60 100% ls, aa: Tr calcite veins with intra-xln por: N-S

2960-70 100% ls, as 2940-50: Tr sh, maroon

2970-90 100% ls, wht-pale pk, ds, v/f-xln, abt intbdd olive
opaque cht & inclus of rd sh in ls

2990-3010 100% ls, aa: Tr dol, pale purp, f-suc-f-xln, tite,
ss gr inclus, N-S: Tr purp sh, dol

3010-20 100% ls, pale purp, mott rose, f-xln, Tr intra-xln,
por, N-S: Tr dol aa: Tr sh, purp, brk rd, pale grn, dol

TOP MARTIN 3045' LOGS

3020-60 100% ls, aa, f-c-xln, bcm dol: abt dol ls, w/fltg
m-g qtz grs: Tr sh, aa

3060-70 40% ls, aa: 50% ss, wht-rose-pale purp, f-m-g, calc,
tite, SR, N-S: 10% sh, purp, grn, brk rd, dol, fltg
ss grs

3070-80 70% ls, aa: 20% ss, aa: 10% sh, aa

- 3080-90 40% ls, aa: 40% dol, pale purp, rose, v-f-xln, tite, calc in part, N-S: 20% ss, aa: Tr sh, aa
- 3090-3100 50% ls, aa: 50% dol, aa: Tr ss, aa: Tr sh, aa
- 3100-10 100% dol, rose, pale yellow, yellow, mott rose, yellow salmon, f-m-lxn - f-gran, calcite xl inclus, intra xln & intra gran por, N-S

TOP PRE CAMBRIAN SEDIMENTS 3110' LOGS

- 3110-20 50% dol, aa: 50% dol, pale pk, yellow orange, ds, v-f-xln, tite, fltg ss grs, N-S
- 3120-40 40% sh, purp-grn, dol, micac: 40% dol, ds-v-f-xln, aa, fltg ss grs: 30% ss, wht-yellow, f-c-g, SR, dol, tite: abt fltg ss grs
- 3140-50 50% sh, aa: 50% ss, aa: Tr dol, aa
- 3150-60 90% sh, purp-grn-brk rd, dol, micac, fltg ss gr inclus: 10% ss, aa: Tr dol, aa
- 3160-70 50% sh, aa: 50% ss, aa, calc cmt: Tr dol & ls, aa
- 3170-90 100% sh, gy-purp gy, purp, grn, v/micac, occ fltg ss gr inclus, appears altered: Tr ss, purp, f-m-g, dol cmt, tite, N-S: Tr dol, aa
- 3190-3200 100% sh, aa: Tr qtzite: w/grn sh inclus
- 3200-40 lith aa, inc in grn sh: inc in qtzite
- 3240-50 80% sh, aa: 20% qtzite, wht-mott grn, tite
- 3250-53 100% qtzite, aa

DRILLING TIME

Five foot drilling time from 160' to 3253'(T.D.) is listed below.

100-200	-----3-1-1-4-2-3-4-4-3
200-300	1-1-3-3-1-2-6-3-15-17-19-13-2-1-3-3-10-13-24-14
300-400	11-12-16-18-29-19-29-10-6-10-9-8-9-8-8-12-16-14-12-14
400-500	11-11-8-5-5-7-4-4-4-4-5-5-7-7-7-9-7-7-8-7
500-600	7-7-7-7-9-7-7-7-7-6-9-8-9-8-8-7-7-8-5-5
600-700	6-7-8-7-7-8-7-10-10-9-9-8-9-9-9-8-7-7-11
700-800	12-12-8-9-6-5-6-6-8-8-8-8-10-11-10-10-10-9-10
800-900	18-16-10-10-8-7-9-8-10-7-8-7-8-9-8-7-6-8-7-9
900-1000	7-9-7-8-10-11-12-10-10-13-11-13-13-10-10-10-11-12-12-12
1000-1100	14-12-13-13-14-14-13-13-14-15-16-17-9-6-5-6-6-8-8
1100-1200	7-9-7-8-10-11-11-11-14-13-11-8-8-9-9-7-10-11-11-10

1200-1300 10-5-6-8-7-8-9-9-10-12-11-14-14-13-10-12-10-11-11-10
 1300-1400 8-7-7-9-10-9-9-9-8-9-9-9-10-9-8-10-13-13-15-9
 1400-1500 8-9-11-11-13-13-13-17-14-11-9-14- 9-11-10-15-13-14-16-13
 1500-1600 12-11-12-12-12-13-13- -9-10-15-14-18-16-7-7-7-7-6-5
 1600-1700 5-5-6-6-5-6-5-5-6-7-6-6-7-6-6-7-6-7-8-8-9
 1700-1800 10-9-10-7-8-8-10-11-12-11-11-10-10-10-9-10-9-10-9-11
 1800-1900 11-11-9-9-12-14-13-10-9-9-9-9-9-10-9-10-9-9-10-11
 1900-2000 9-9-12-12-17-10-8-7-7-7-6-5-5-6-10-9-10-17-13-15
 2000-2100 13-9-8-7-8-7-7-8-12-8-7-13-9-8-9-6-5-5-8-6
 2100-2200 7-8-10-8-7-8-8-8-10-10-6-6-11-12-11-11-8-8-10-10
 2200-2300 5-16-11-11-9-11-8-8-7-9-10-19-23-11-23-23-30-39-39
 2300-2400 26-24-33-13-12-12-19-21-20-27-22-22-23-23-21-21-29-25-
 36-29
 2400-2500 22-35-63-45-44-52-57-52-28-58-56-58-48-60-61-57-48-58-
 58-48
 2500-2600 35-53-61-36-38-35-61-49-29-16-33-28-47-64-30-36-44-45-
 47-57
 2600-2700 62-65-47-50-30-46-69-80-87-76-48-68-30-10-14-18-20-27-
 29-36
 2700-2800 36-56-38-44-70-63-76-78-32-57-119-70-80-70-50-52-42-43-
 30-23
 2800-2900 20-24-27-50-38-30-50-36-70-114-76-50-76-32-33-24-42-44-
 32-32
 2900-3000 40-67-70-68-72-30-13-50^h-32-56-62-62-44-55-67-63-52-62-
 66-55
 3000-3100 52-53-47-28-35-47-43-46-44-59-67-73^h-28-27-38-23-28-44
 80-78
 3100-3200 32-22-26-73-97^h-30-31-28-22-33-37-38-37-33-40-40-47-49-
 42-52
 3200-3300 53-50^h-43-40-42-45-39-36-42-49-----

CHRONOLOGICAL LOG

10-19-67 Rigging up (13 hrs.)
 10-20-67 Rigging up (7 hrs.): Drilling rat hole (10 hrs.)
 10-21-67 Drilling 30': Drilling rat & mouse hole (17 1/2 hrs.):
 Drilling surface hole (6 1/2 hrs.): Spud 5:30 P.M.
 10-22-67 Drilling 70': Drilling (15 1/2 hrs.): Mixing mud &
 lost circulation material (8 1/2 hrs.)
 10-23-67 Drilling 71': Drilling (1 1/2 hrs.): Waiting on water
 (12 hrs.): Spot cement (1 1/2 hrs.): Waiting on cement
 (6 1/2 hrs.): Drilling cement (2 1/2 hrs.)
 10-24-67 TD 104': Drilling (12 1/2 hrs.): Mixing mud & lost
 circulation material (5 1/2 hrs.): Trips (1 hrs.)
 WOC (5 hrs.)
 10-25-67 TD 133': Drilling (5 1/2 hrs.): WOC (16 1/2 hrs.):
 Waiting on water (2 hrs.)
 10-26-67 TD 133': Reaming (3 hrs.): Waiting on water (21 hrs.)
 10-27-67 TD 133': Waiting on water (16 1/2 hrs.): Cement surface
 hole (3 1/2 hrs.): WOC (1 hr.): Drilling cement (2 1/2 hrs.)
 10-28-67 TD 133': Drilling cement (3 hrs.): Reaming (7 hrs.):
 Waiting on tools (11 hrs.)

10-29-67 TD 154': Drilling (6 hrs.): Reaming (13 hrs.): Waiting on tools (3 hrs.): Mixing mud (2 hrs.)
 10-30-67 TD 154': Reaming (7 1/2 hrs.): Mixing mud (6 hrs.): Running 9 5/8" surface casing (2 hrs.): Waiting on cementers (8 1/2 hrs.)
 10-31-67 Drilling 265': Waiting on cementers (1/2 hr.): Cement surface pipe (1 1/2 hrs.): Plug down 2:00 A.M.: Cemented with 100 sacks, 2% CaCl: Waiting on cement (18 hrs.): Drilling (4 hrs.)
 11-1-67 TD 412': Drilling (8 1/2 hrs.): Trips (1 hr.): Mixing mud (14 1/2 hrs.)
 11-2-67 TD 412': Spotting plugs & mixing lost circulation material (24 hrs.)
 11-3-67 TD 412': Waiting on Halliburton (12 hrs.): Spotting plug (6 hrs.): Waiting on cement (6 hrs.)
 11-4-67 TD 412': Waiting on cement (18 hrs.): Drilling cement (1/2 hr.): Lost circulation returns, spotting plug (1/2 hr.): Waiting on cement (5 hrs.)
 11-5-67 TD 412': Waiting on cement (18 hrs.): Drilling cement (1/2 hr.): Lost returns: Mixing casting plaster (1 1/2 hrs.): Waiting on casting plaster (2 hrs.): Drilling casting plaster (1/2 hr.): Lost returns: Waiting on orders (1 1/2 hrs.)
 11-6-67 TD 412': Waiting on cement (17 hrs.): Spotting plugs (7 hrs.)
 11-7-67 TD 549': Waiting on cement (9 hrs.): Waiting on orders (2 hrs.): Drilling (3 1/2 hrs.): Waiting on water (7 1/2 hrs.)
 11-8-67 TD 709': Washing & reaming to bottom (4 1/2 hrs.): Drilling (4 1/2 hrs.): Trips (2 hrs.): Waiting on water (13 hrs.)
 11-9-67 TD 709': Waiting on water (5 1/4 hrs.): Lost circulation 18 3/4 hrs.)
 11-10-67 TD 709': Lost circulation (24 hrs.)
 11-11-67 TD 709': Lost circulation (24 hrs.)
 11-12-67 TD 709': Lost circulation (24 hrs.)
 11-13-67 TD 709': Lost circulation (24 hrs.)
 11-14-67 TD 709': Conditioning hole to run 7 5/8" casing (12 hrs.): Ran 7 5/8" casing to 698' (4 hrs.): Waiting on cement (8 hrs.)
 11-15-67 Drilling 795' sandstone: Waiting on cement (19 hrs.): Drilling cement (2 hrs.): Pressure up 300 lbs. (5"): Drilling (3 hrs.)
 11-16-67 Drilling 1262' sand: Drilling (13 3/4 hrs.): Trips (2 hrs.): Deviation survey (1/4 hr.): Mixing mud (8 hrs.)
 11-17-67 Drilling 1706' sand: Drilling (14 1/2 hrs.): Trips (5 1/2 hrs.): Mixing mud (3 1/2 hrs.): Deviation survey (3/4 hrs.)
 11-18-67 TD 2200' Trip for NB: Drilling (17 1/2 hrs.): Trips (2 hrs.): Mixing mud (4 1/2 hrs.)

11-19-67 Drilling 2313' sltstn: Shut down(12 hrs.): Drilling
 (8 1/2 hrs.): Trips (3 1/2 hrs.)
 11-20-67 Drilling 2452': Drilling (16 hrs.): Trips (8 hrs.)
 11-21-67 Drilling 2560': Drilling (17 1/2 hrs.): Trips (2 1/4
 hrs.): Mixing mud (4 1/2 hrs.)
 11-22-67 Drilling 2663': Drilling (19 hrs.): Trips (5 hrs.)
 11-23-67 Drilling 2768': Drilling (19 hrs.): Trips (5 hrs.)
 11-24-67 Drilling 2860': Drilling (16 1/2 hrs.): Trips (2 1/2
 hrs.): Mixing mud (5 hrs.)
 11-25-67 Drilling 2959': Drilling (16 1/2 hrs.): Trips (4 3/4 hrs.)
 Mixing mud (2 3/4 hrs.)
 11-26-67 Drilling 3022': Drilling (11 1/2 hrs.): Mixing mud
 (3 hrs.): Trips (9 1/2 hrs.)
 11-27-67 Drilling 3145': Drilling (17 hrs.): Trips (7 hrs.)
 11-28-67 Drilling 3210': Drilling (12 3/4 hrs.): Trips (2 hrs.):
 Mixing mud (5 1/4 hrs.)
 11-29-67 TD 3253': Drilling (6 hrs.): Mixing mud (8 3/4 hrs.):
 Trips (5 hrs.): Circ. logs (3 1/4 hrs.): Logging
 (1 1/2 hrs.)
 11-30-67 TD 3253': Logging (4 hrs.): Waiting on orders (7
 hrs.): Waiting on Halliburton (13 hrs.)
 12-1-67 TD 3253': Waiting on Halliburton (7 hrs.): Plugging
 (4 hrs.): Rig Released.

BIT RECORD

No.	Size	Make	Type	From	To	Footage	Hours
1	13 3/4	Reed	SIJ	0	77	77'	36
2	13 3/4	Reed	SIF	77	154	77'	20
3	8 3/4	CP	EMIVG	154	336	187'	8
4	8 3/4	CP	EMIVG	336	412	76'	8
5	8 3/4	CP	EMIVG	412	709	287'	8
6	6 3/4	CP	EMIV	709	1062	253'	13
7	6 3/4	CP	EMIV	1062	1300	238'	12
8	6 3/4	CP	EMIV	1300	1567	267'	11
9	6 3/4	Reed	VTIA	1567	1929	362'	11 1/2
10	6 3/4	CP	ES2G	1929	2200	271'	9
11	6 3/4	CP	ES2G	2200	2282	82'	4 1/2
12	6 3/4	CP	EMIV	2282	2400	118'	10 1/2
13	6 3/4	HTC	W7	2400	2441	41'	7
14	6 3/4	Sec.	M4N	2441	2499	58'	10 1/2
15	6 3/4	HTC	W7	2499	2600	101'	15 1/2
16	6 3/4	CP	EH2	2600	2663	63'	13 1/2
17	6 3/4	CP	EH2	2663	2741	78'	11 3/4
18	6 3/4	CP	EHIG	2741	2796	55'	10 1/2
19	6 3/4	CP	EHIG	2796	2864	68'	12 3/4
20	6 3/4	CP	EH3	2864	2939	75'	12
21	6 3/4	CP	EH3	2939	3014	75'	17
22	6 3/4	HTC	OWC	3014	3061	47'	6 3/4
23	6 3/4	CP	EHIG	3061	3125	64'	11 1/4
24	6 3/4	CP	EHI	3125	3253	128'	18 3/4

TOTAL ROTATING HOURS: 298 3/4 hrs.

DEVIATION RECORD

<u>No.</u>	<u>Degree</u>	<u>Depth</u>
1	2	515'
2	1 1/2	1030'
3	2 1/4	1500'
4	4	2230'
5	2 1/4	2400'
6	2 3/4	2499'
7	3	2663'
8	2 3/4	3002'

ELECTRICAL SURVEY CALCULATIONS

<u>Depth</u>	<u>Porosity</u>	<u>Water Saturation</u>
3092-3106'	9 1/2%	100%

SUMMATION

This well was spudded October 21, 1967, and plugged and abandoned December 1, 1967. The well was drilled to a total depth 3253' in Pre Cambrians Sediments. A total of 42 days was required to drill this test.

All formations to total depth were evaluated by (1) careful examination of rotary cuttings by the geologist in the field; and (2) by qualitative and quantitative evaluation of the electrical surveys. These data indicated no show of oil and/or gas in any of the strata penetrated.

Rotary samples were saved from 710 feet to total depth and shipped to the Four Corners Sample Cut in Farmington, New Mexico. An Induction-Electrical Log and Sidewall Neutron Porosity Log were run from 698 feet to total depth.

Dave M. Thomas, Jr.

Dave M. Thomas, Jr.
Certified Petroleum Geologist

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. M 50 63 21

That we: Oil Discovery Corporation, Box 790, Sedona, Arizona, 86336

of the Coconino County in the Arizona State of:

as principal, Insurance Company of North America
and

of 3550 North Central Avenue, Phoenix, Arizona
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the Oil and Gas Conservation Commission, State of Arizona, in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents. The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas, helium, other minerals, or for stratigraphic purposes in and upon the following described land situated within the State, to wit:

BLM Lease AR 034 554, 1203.6 Acres, Twp 19N, R6E, 6&SR Meridian
(May be used as blanket bond or for single well)

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect. Liability under this bond may not be terminated without written permission of this commission.

Penal sum of Five thousand and no/100 - - - - - (\$5,000.00)

Witness our hands and seals, this 20th day of September, 1967

Oil Discovery Corporation

By Earl Huggins, Pres.
Principal

Witness our hands and seals, this 20th day of September, 1967

Insurance Company of North America

By Edward W. Hallman
Surety

Edward W. Hallman, Attorney-in-Fact

Surety, Resident Arizona Agent
(If issued in 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 10-13-67
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Bannister

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2



Permit No. 436

POWER OF ATTORNEY

INSURANCE COMPANY OF NORTH AMERICA

PHILADELPHIA, PA.

Know all men by these presents: That the INSURANCE COMPANY OF NORTH AMERICA, a corporation of the Commonwealth of Pennsylvania, having its principal office in the City of Philadelphia, Pennsylvania, pursuant to the following Resolution, which was adopted by the Board of Directors of the said Company on June 9, 1953, to wit:

"RESOLVED, pursuant to Articles 3.6 and 5.1 of the By-Laws, that the following Rules shall govern the execution for the Company of bonds, undertakings, recognizances, contracts and other writings in the nature thereof:

- (1) "Such writings shall be signed by the President, a Vice President, an Assistant Vice President, a Resident Vice President or an Attorney-in-Fact.
- (2) "Unless signed by an Attorney-in-Fact, such writings shall have the seal of the Company affixed thereto, duly attested by the Secretary, an Assistant Secretary or a Resident Assistant Secretary. When such writings are signed by an Attorney-in-Fact, he shall either affix an impression of the Company's seal or use some other generally accepted method of indicating use of a seal (as by writing the word "Seal" or the letters "L.S." after his signature).
- (3) "Resident Vice Presidents, Resident Assistant Secretaries and Attorneys-in-Fact may be appointed by the President or any Vice President, with such limits on their authority to bind the Company as the appointing officer may see fit to impose.
- (4) "Such Resident Officers and Attorneys-in-Fact shall have authority to act as aforesaid, whether or not the President, the Secretary, or both, be absent or incapacitated; and shall also have authority to certify or verify copies of this Resolution, the By-Laws of the Company, and any affidavit or record of the Company necessary to the discharge of their duties.
- (5) "Any such writing executed in accordance with these Rules shall be as binding upon the Company in any case as though signed by the President and attested by the Secretary."

does hereby nominate, constitute and appoint **EDWARD W. HALLMAN**, of the City of Phoenix, State of Arizona

its true and lawful agent and attorney -in-fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed any and all bonds and undertakings in its business of guaranteeing the fidelity of persons holding places of public or private trust, and in the performance of contracts other than insurance policies, and executing and guaranteeing bonds or other undertakings, required or permitted in all actions or proceedings or by law required or permitted.

All such bonds and undertakings as aforesaid to be signed for the Company and the Seal of the Company attached thereto by the said Edward W. Hallman, individually

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 dully executed and acknowledged by the regularly elected officers of the Company at its office in Philadelphia, Commonwealth of Pennsylvania, in their own proper persons.

IN WITNESS WHEREOF, the said R. S. GILLESPIE, Vice-President, has hereunto subscribed his name and affixed the corporate seal of the said **INSURANCE COMPANY OF NORTH AMERICA** this 1st day of March 19 67

INSURANCE COMPANY OF NORTH AMERICA

(SEAL) by R. S. GILLESPIE Vice-President

STATE OF PENNSYLVANIA }
COUNTY OF PHILADELPHIA } ss.

On this 1st day of March, A. D. 19 67, before the subscriber, a Notary Public of the Commonwealth of Pennsylvania, in and for the County of Philadelphia, duly commissioned and qualified, came R. S. GILLESPIE, Vice-President of the **INSURANCE COMPANY OF NORTH AMERICA** to me personally known to be the individual and officer described in, and who executed the preceding instrument, and he acknowledged the execution of the same, and, being by me duly sworn, deposeth and saith, that he is the officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the corporate seal of said Company, and the said corporate seal and his signature as officer were duly affixed and subscribed to the said instrument by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia, the day and year first above written.

MARY MARGARET JONES

Notary Public.

(SEAL)

My commission expires July 15, 1970

I, the undersigned, Assistant Secretary of **INSURANCE COMPANY OF NORTH AMERICA**, 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.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this 22nd day of September 19 67

(SEAL)

Paul Jurgens
Assistant Secretary

January 4, 1968

Oil Discovery Corporation
P.O. Box 790
Sedona, Arizona 86336

Attention: Mr. Earl Huggins, President

Re: Oil Discovery #1 Federal well
NE SE 17-19N-6E, Coconino County, Arizona
Permit 436

Insurance Company of North America Bond M50 63 21

Gentlemen:

Inasmuch as all the requirements of our Rules and Regulations have been met in the drilling of captioned well, this letter then constitutes authority from this Commission to terminate captioned bond.

Very truly yours,

John Bannister
Executive Secretary
nr

cc: Insurance Company of North America
3550 N. Central
Phoenix, Arizona 85012

Dear John:

Enclosed is final
report on ODC #1 Fed.
Please advise as to
Bond release.

Best regards
Earl



436

November 2, 1967

Oil Discovery Corporation
P.O. Box 790
Sedona, Arizona 86336

Attention: Mr. Earl Huggins, President

Re: Oil Discovery #1 Federal
NE SE 17-19N-6E, Coconino County
Permit 436

Gentlemen:

We are in receipt of your letter of October 8, 1967 requesting that captioned well be placed in confidential status. The Commission has taken this action.

You have previously been furnish with a supply of our Form 25, Sundry Report, and it is requested that you immediately file said form with this Commission, giving the spud date and bringing us up to date as to your progress.

As you are aware, when a well is declared confidential by the operator it does not preclude the Commission from securing current information. Of course all information so secured will remain in the confidential status for the period defined by the Statutes and our Rules and Regulations.

Should you have any questions, please advise.

Very truly yours,

John Bannister
Executive Secretary
mr
enc: Form 25



OFFICES:
PH. 282-7763
POST OFFICE BOX 780
SEDONA, ARIZONA 86336
PH. 254-9661
404 DEL WEBB BUILDING
PHOENIX, ARIZONA 85012

Oil & Gas Conservation Commission
State Of Arizona
State Capitol Annex
Phoenix, Arizona

October 28, 1967

ATT: Mr. John Bannister

Dear John:

In accordance with the instruction sheet which accompanied the Permit to Drill, the following instructions shall apply:

Well name: Oil Discovery #1 Federal
Permit #: 436

This well is to be drilled tight. The company's agent, Mr. Dave Thomas, has been instructed to release drilling depths only.

Yours truly,

OIL DISCOVERY CORP.

Earl Huggins
Earl Huggins, Pres.



Spud date?
436



OFFICES:
PH. 282-7785
POST OFFICE BOX 790
SEDONA, ARIZONA 85338
PH. 254-9861
404 DEL WEBB BUILDING
PHOENIX, ARIZONA 85012

Virginia Gas & Oil Co., Ltd.
P.O. Box 969
Albany, Texas 76430

October 11, 1967

Attention: Mr. John E. Carson

Dear Sir:

It is our understanding that your firm intends to do some exploratory drilling on your lease block southeast of Sedona, Arizona. I personally want to welcome you to the area and offer sincere wishes for your success.

I have been doing geological studies of this area for the past 6 years and have high hopes for it being an excellent area for the major production of both gas and oil. Our company has been formed for the primary purpose of doing exploratory work a few miles Northwest of your block. We, too, are interested in the structure as it relates to the Oak Creek Fault system.

We are far enough along with our work to be finalizing a drilling program. Mr. Dave Thomas, Geologist, of Farmington, New Mexico will sit the well, and Mr. Tomas G. Wigham, Driller, will do our drilling. The rig is due to arrive at the site about Oct. 18 and drilling will begin immediately.

The stratigraphy of the area is pretty well conformed and should be rather consistent at both your site and ours. The information we gather as a result of drilling should be of major value to your program.

You are invited to consider a mutual plan of bottom-hole contribution to our program in return for free and exclusive access to all log information as it develops. We would be glad to consider \$10,000 as a proper amount.

Please contact me if this program would be of benefit to your firm.

Yours truly,
Oil Discovery Corporation

Earl Huggins
Earl Huggins, President

H36