

Wilkinson O & G Sunland-State  
NE SW Sec. 28-T19N-R26E Apache Co. 87

P-11

County Apache

Area Pinta Dome

Lease No. State

Well Name Wilkinson Oil & Gas, Sunland Development-<sup>2</sup>State

Location NE SW Sec 28 Twp 19N Range 26E Footage 2450' FWL - 1800' FSL

Elev 5597' Gr KB Spud 6-4-59 Date 6-4-59 ~~Completed~~ Abandon 2-23-61 Total Depth 960'

Contractor 5697± G/L from USGS 7 1/2' gauge on CED

Casing Size        Depth        Cement        Drilled by Rotary   x    
Cable Tool       

Production Horizon       

Initial Production   P & A  

REMARKS         
        
        
      

Elec         
Logs Induction-electric, Contact Caliper  
Applic.        Plugging        Completion         
to Plug x Record x Report       

Sample Log         
Sample Descript.         
Sample Set         
Core Analysis         
DSTs       

Water well accepted by       

Bond Co.         
& No. Western Surety Company Bond No. 996000-59

Bond Am't \$ 2,500 Cancelled 2-28-61 Date        Organization Report       

Filing Receipt 6370 Dated 6-1-59 Well Book x Plat Book x

API No. 02-001-05288 Loc. Plat x Dedication E/2 SW/4  
none

Permit Number 87

Date Issued 6-18-59

STATE OF ARIZONA  
OIL AND GAS CONSERVATION COMMISSION  
PHOENIX, ARIZONA

Form O & G 56

Form Prescribed Under Oil and Gas Conservation Act of 1951

ABANDONMENT AND PLUGGING RECORD

(Within thirty days after the plugging of any well has been accomplished, the owner or operator thereof shall file this form with the Commission, setting forth in detail the method used in plugging the well.)

PLUGGING METHODS AND PROCEDURE- - The methods and procedure for plugging a well shall be as follows: (a) The bottom of the hole shall be filled to, or a bridge shall be placed at, the top of each producing formation open to the well bore, and in either event a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore when ever possible.

(b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet below all fresh-water-bearing strata.

(c) A plug shall be placed at or near the surface of the ground in each hole.

(d) The interval between plugs shall be filled with heavy-mud-laden fluid.

(e) An uncased hole shall be plugged with heavy mud up to the base of the surface string, at which point a plug of not less than fifty (50) feet of cement shall be placed.

Operator Wilkinson Oil & Gas Company Field -  
Pool -  
County Apache

Address all correspondence concerning this form to: Turner and Associates  
Street: 350 East Camelback Road City: Phoenix 12 State: Arizona  
Lease Name Sunland Development Co Well No. State #2 Sec. 28 Twp. 19N Rge. 26E  
Date well was plugged February 23, 1961, 19  
Was the well plugged according to regulations of the Commissioner? Yes  
Set out method used in plugging well and record of casing pulled: C. T. Henderson, driller,  
moved a light rig over the hole which was uncased. The hole was cleaned out to approxi-  
mately 140 feet where the old mud left in the hole was encountered. At this depth the hole  
started caving and we could not go deeper without using casing, Because no good water was  
encountered in drilling the hole and because extra heavy mud was left in the hole trying to  
keep the hole open for electric logging, We did not consider deeper cleaning out was necessary.  
A cement plug was set on top of the mud and the hole was filled with heavy mud back to 15 feet  
below the surface and was filled with cement from this depth back to the surface. The 4 inch  
pipe marker with the name and location of the well painted on it was set in the cement.

Samuel F. Turner

(AFFIDAVIT)

STATE OF ARIZONA  
COUNTY OF Maricopa

Wilkinson Oil & Gas Company  
(Operator)

Before me, the undersigned authority, on this day personally appeared Samuel F. Turner, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me this the 27th day of February 19 61

Evelyn Van Note  
Notary Public

My Commission expires:  
August 30, 1962

87 ✓

**APPLICATION TO ABANDON AND PLUG**

FIELD \_\_\_\_\_  
 OPERATOR Wilkinson Oil & Gas Co. ADDRESS 2614 W. Freeway Lane, Phoenix, Ariz.  
 LEASE Sunland Develop. Co WELL NO. State No. 2 COUNTY Apache  
 SURVEY \_\_\_\_\_ SECTION 28 DRILLING PERMIT NO. 68  
 LOCATION SE $\frac{1}{4}$ , NE $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 28, T. 19 N., R. 26 E.

TYPE OF WELL Dry hole TOTAL DEPTH 960 feet  
(Oil, Gas or Dry Hole)

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

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

1. COMPLETE CASING RECORD. No casing left in hole.

2. FULL DETAILS OF PROPOSED PLAN OF WORK We propose to move a light churn drill over this hole, clean it out as deep as possible and set a plug, then fill the hole back with heavy mud and set a cement plug at the surface with the required 4 inch pipe marker painted white with the information painted in black enamel letters on it. It is believed that all formations will be sealed off below this plug by the very heavy mud that was left in the hole trying to stop the caving in order to run the electric log. Therefore it is believed that this work will conform with the requirements of Rule 202. 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 February 22, 1961  
 NAME OF PERSON DOING WORK C. T. Henderson ADDRESS \_\_\_\_\_  
 CORRESPONDENCE SHOULD BE SENT TO Turner and Associates

NAME Samuel F. Turner  
 TITLE Consulting Geologist  
Brook Turner - Geologist  
 STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Date Approved Feb. 20, 1961

STATE OF ARIZONA  
 OIL & GAS CONSERVATION COMMISSION  
 Application to Abandon and Plug  
 Form No. 15A File 2 Copies  
 Authorized by Order No. 4-6-59  
 Effective April 6, 1959

From 10:43 to 11:47 a.m., drilled from 840 to 860. From 11:50 to 1:05 p.m. drilled 860 to 880. From 1:08 p.m. to 2:00 p.m., drilled from 880 to 900 feet. First show of Coconino in drill cuttings at 888 feet. From 2:02 to 3:15 p.m., drilled from 900 to 920. From 3:18 to 4:15 drilled from 920 to 931. Then pulled bit. Bit teeth worn, estimated 65 percent. Water Load No. 5 taken from Paulsell's tank. At 3:00 p.m. called for Welex for 11:00 a.m. the next day to run log and placed call for cementing. Continuous show of massive light green siltstone in returns.

June 3, 1959, Wednesday: Drill placed in hole to 930 feet. Drilled out to 960 feet. Clutches worn out on table and sandline. It took double blocks to pull drill from hole. At 8:38 p.m. Welex started in with induction probe. Found bridge at 519 feet, and can not penetrate deeper than 521 feet. Continuous return of light green siltstone in drill cuttings indicates that hole is caving from depths of 325 to 600 feet. At 9:03 p.m., Welex ordered the lay over for run next day.

June 4, 1959, Thursday: Cleaned out mud pits and made up new mud with 6 sacks. Hauled water load No. 6 from Paulsell's tank. Went into hole at 960 feet at 4:30 p.m. Circulated additional mud bringing more siltstone from 300 to 600 feet out of hole.

Welex Test: Started into well at 6:51 p.m., but could not pass probe past 522 feet. Came out at 7:18 p.m. and changed probes but still could not penetrate plug at 522 feet. Went in with drill stem and bit to 600 feet and came out at 8:55 p.m. Welex went in at 9:05 p.m. and hung up at 600 feet. Shut down at 9:52 p.m.

June 5, 1959, Friday: Ran in drill pipe with 6½ inch Hawthorne bit and hit mud ring at 630 feet. Ran to 953 feet and came out with drill stem at 9:35 a.m. Welex in with induction probe at 9:45 a.m. Bottomed at 900 feet and started survey back up hole at 899 feet. Used 50 ohms as a factor. Ran normal 2 inch resistivity curve and a lateral at 1½ inches. Finished induction run and amde caliper run. Welex man gave opinion that Coconino was 85 percent saturated.

June 9, 1959, Tuesday: Mud level in No. 2 Hole at 113 feet which balanced drill pipe displacement and mud loss in pulling wet string.

May 30, 1959, Saturday: Made up 5 sacks of mud, using 1,600 gallons of water and added 2 sacks to make circulation. Started drilling at 420 feet at 11:20 and were at 440 feet at 11:50 a.m. From 12:00 noon to 12:32, drilled 440 to 460 feet. From 12:39 to 1:18 p.m., 460 to 480 feet. Thinned mud. From 1:22 to 1:55 drilled from 480 to 500 feet. From 2:00 to 2:25 p.m. drilled from 500 to 520 feet. Thinned mud. From 2:30 to 5:20 p.m. drilled from 520 to 530 feet. Went through massive light green siltstone and set on hard shelf at 522 feet. Bit clogged with shale. Drill pulled out of hole and shut down at 6:30 p.m.

May 31, 1959, Sunday: Started in hole with new 6 3/4 inch bit. Picked up second load of water at Paulsells tank. Lightened mud and added 1,000 gallons of water. Started drilling at 10:05 a.m. Drilled from 530 to 540 from 10:05 to 10:20. From 10:40 to 11:22 drilled 540 to 560. From 11:26 to 12:00 noon drilled 560 to 580. From 12:03 to 12:35 drilled 580 to 600. From 12:40 to 1:28 drilled 600 to 620 feet. Fluid loss; 3 gallons per minute during morning's drilling and 2 gallons per minute at 1:30 in the afternoon. From 1:31 to 2:10 p.m. drilled 620 to 640. From 2:14 to 2:35 p.m. drilled 640 to 660 feet. Thinned mud and added 400 gallons of water. From 2:40 to 3:20 drilled 660 to 680 feet. From 3:24 to 4:15 drilled from 680 to 700 feet. Light show of gas at 646 to 650 feet at 2:25 p.m. The same at 678 feet. Heavy show of gas at 682 feet at 3:29 p.m. Came out of hole and changed bits. Back in hole. Picked up third load of water from tank at 5:00 p.m. Shut down at 6:15 p.m.

June 1, 1959; Monday: Drill back in hole and circulating at 7:30 a.m. iwth thin mud. Added 300 gallons of water. Drilled 8:03 a.m. to 9:50 and made from 700 to 720 feet. Fluid loss 2 gallons per minute. From 9:54 to 10:48 a.m. made from 720 to 740. From 10:57 to 11:46 made from 740 to 760. Fluid loss 1 gallon per minute. From 11:49 to 1:48 p.m. drilled from 760 to 780. From 2:18 to 4:25 p.m. made from 780 to 792. Came out of hole and changed bit. From 5:55 to 6:35 drilled from 792 to 800 feet. Light show of gas at 722 feet at 10:03 am. and light show of gas at 744 feet at 11:02 a.m. Good show of gas after starting circulation at 7:56 a.m. the next morning. Hauled water load No. 4.

June 2, 1959, Tuesday: No fluid loss noted over night. Circulated with drill on bottom at 792 feet from 8:10 a.m. to 8:22 a.m. Heavy show of gas as heavy mud returns and is thinned in pits. Five feet 8 1/2 inches difference in elevation between surface at Well No. 2 and surface at Well No. 1. Started drilling at 8:22 a.m. and drilled until 9:45 a.m., drilling from 800 to 820 feet. From 9:48 a.m. to 10:40 a.m., drilled from 820 to 840.

May 23, 1959, Saturday: Rigged up haulback on bailer line and swabbed from 950 feet 3 runs. Average bail out 75 gallons. Fluid level at 500 feet at 12:30 p.m. Made 6 runs from the total depth with good return of mud and increase of clear hard water. Measured fluid level at 6:00 p.m. after bailing ended at 5:30 p.m. Fluid level 308 feet 6 inches.

May 24, 1959, Sunday: Made two swab runs from 600 feet, starting fluid level at 308 feet 6 inches. Finished at 306'0". Agreed to put in 950 feet of 2 3/8 inch flush joint pipe and blow hole with air. Total pipe in hole 978 feet 1 inch, with thread make up of 3 feet 3 inches, total length 974 feet 10 inches.

May 25, 1959, Monday: Sent for tubing. Purchased strong of 1 1/4 inch, standard black line pipe.

May 26, 1959, Tuesday: Made up adapters and subs for 1 1/4 inch pipe and ran for 420 feet (20 joints) in hole. Fluid level at 308 feet 6 inches. Started blowing air and expelled water at rate of 7 g.p.m. Constant displacement of 7 g.p.m. from 1:25 p.m. to 5:40 p.m. when drive shaft broke on compressor. Compressor showed 100 lbs. to start flow and steady pressure of 72 lbs. during flow operation. Sample of water (very salty) taken and left with geologist to be given to lab for analysis. Indication is that Coconino is wet. No sign of gas before or after air blowing.

May 27, 1959, Wednesday: Discussed cost of plugging and squeeze cementing as against drilling new site. Agreed on spudding in new location.

# 2

May 28, 1959, Thursday: Pulled 420 feet of 1 1/4 inch line pipe from Well No. 1 and moved rig to Well Site No. 2. Mud pits dug and rig up to start drilling at 2:00 p.m. Drilled light powerdy mudstone from 90 to 100 feet and from 160 to 165 feet. Total depth drilled in day; 240 feet.

May 29, 1959, Friday: Started at 9 a.m. Drilled to 300 feet at 11:00 p.m., 320 feet at 12:00 noon, 420 feet at 4:40 p.m. Hauled one tank of water. Picked up 12 sacks of mud from Eastern Well. Drilling limestone at 365 to 375 feet, approximately 7 feet difference than in Well No. 1. Started into massive light green siltstone at 405 feet. Some difficulty in holding hole open. Came out of hole and replaced bit at 360 feet. Total 570 feet of drilling on bit, and bearings were 40 percent worn out.

No water shut off indicated. Finished work at 2 a.m., Saturday morning, May 16.

May 17, 1959, Sunday: Made arrangements for 1,000 feet of 3 inch pipe with fittings..Float and collar from Halliburton. Cement trucks to arrive at 4:00 p.m. on Tuesday, May 19. Welex to perforate.

May 19, 1959: Beasley Hotshot Truck Service delivered 40 pcs. of 3 inch line pipe or 1,000 feet with well head fittings. Went into 760 feet with drill. Fluid level at 320 feet. Dropped drill to 900 feet and eased on down to 970 feet. Drilled to 980 feet and circulated for 30 minutes. Came out of hole and set 971 feet of 3 inch standard 7.7 pound line pipe. Hole in good condition. Made up strong with 4'6" of extension above surface. Halliburton hooked on to string flushed with 1,000 gallons of water. Returned to surface, staging in full return. Hauled extra tank of water from Paulsells sump, making a total of 5 loads (2,400 gals. each) for drilling operation. Made up 18.3 barrels of slurry with 75 sacks of cement and pumped into 3 inch casing followed by plug. Forced plug to 950 feet in clear water. Held pressure of 500 lbs. on plug and then released to make up pressure to 640 lbs. Use sounding line and plug checked at 950 feet. Observed water level in top of pipe and no loss. A 3 inch plug was placed in the pipe collar at the surface to restrain any possible upward movement of plug. There was good circulation with new mud before the casing was set. Cementing was started at 9:30 p.m. and finished at 10:00 p.m. with cement returned to surface. Mixed weight of slurry was 15.2 lbs. per gallon.

May 20, 1959, Wednesday: Perforating program was discussed with geologists. Picked up 3 inch swab in Gallup.

May 21, 1959: Stevenson from Welex gave following perforating schedule; 880 to 888 feet, 892 to 910 feet and 132 to 940 feet. Picked up 40 gallons of mud acid from Halliburton and perforating truck was to come in Friday.

May 22, 1959, Friday: Made up swab and installed 4 inch valve on well. Bailed water from casing to 600 feet. Welex perforated as per schedule given above. See Welex Service Ticket #31128. Used 2 1/8 inch link jet charges, 4 per foot - 34 foot total, 136 perforations of .55 inch. Made one swab run from 600 feet and one swab run from 900 feet. Fluid level estimated at 700 feet and no gas. Measured fluid level at 6:30 p.m. as 282 feet. Added 40 gallons of mud acid to hole and left set over night.

May 11, 1959, Monday: Drilled from 680 to 800 feet. Sent for  $4\frac{1}{2}$  inch and  $4\frac{3}{4}$  inch bits and a set of valve rubbers for pump. Went back in hole with a two cone bit at 720 feet at 9:50 a.m. Drilled to 750 feet and bearings were worn out on bit. Then went in with new  $4\frac{1}{2}$  inch bit and drilled to 800 feet at 12 feet per hour. Came part way out of the hole to 400 feet at 9:30 p.m. Start of transition from Chinle to Moenkopi at 690 feet. Increased in amount of lime at 760 feet in conglomerate. Further lime increase at 790 feet. Mud mixture thinned and first show of gas in mud at 760 feet in conglomerate.

May 12, 1959, Tuesday: Came out of hole and went in with new  $4\frac{5}{8}$  inch reamer above a new  $4\frac{3}{4}$  inch bit. in to 640 feet and then started reaming with thin mud. Have used three truck loads of water to this point. Had drilled to 875 feet at 6 p.m. Came out of hole at 7:00 a.m. the next morning. Bearings were badly worn on bit. Possible contact with Coconino at 872 feet under hard shelf at 860 to 865 feet.

May 13, 1959, Wednesday: Started in hole at 7 a.m. with new  $4\frac{3}{4}$  inch 3 cone bit. Started circulating at 620 feet and was necessary to ream from 655 to 680 feet. Set on bottom and drilling at 8:20 a.m. Mud lightened. Repaired goose neck at 8:40 a.m., taking out 20 minutes and 10 minutes to repair guide. Started drilling at 10:20 at 900 feet and was at 920 feet at 11:20 a.m., 925 feet at 11:35 a.m. on an unusually hard 6 inch strata, at 940 feet at 1:20 p.m., 960 feet at 3:00 p.m. and at 4:20 p.m. changed to  $4\frac{3}{4}$  inch long tooth bit. Drilled to 980 feet at 5:50 p.m., 1,000 feet at 7:30 p.m. Finished at 8:30 p.m. Pulled 21 joints and left 560 feet hanging in hole. Still cutting at 20 feet per hour. Light sandstone, Coconino.

May 14, 1959, Thursday: Went back in hole after checking bit and drilled from 1,020 to 1,040 feet in 1 hour and 15 minutes. Attempted to blow hole clear to 320 feet and called for Welex for logging. Coconino sandstone was identified by geologists at 940 to 980. The long tooth 3 cone bit showed little wear after cutting 80 feet of Coconino.

May 15, 1959, Friday: Cleaned mud pump and cleaned out mud pits and made up new mud to condition hole. Had to drill down from 520 feet on and redrilled from 720 to 980 feet. Welex started first test run from 980 feet at 11:30 p.m. Finished run and made 5 copies of log. Good Coconino formation from, roughly, 875 feet to 980 feet. with very good porosity.

NOTES ON WILKINSON OIL AND GAS COMPANY WELL NO. 1  
TRANSCRIBED FROM FIELD NOTES TAKEN BY CHARLES FREESH

By

Samuel F. Turner

May 1, 1959: Drill rig and water trailer moved from port of entry at Sanders to site on Prulsells Ranch.

May 3, 1959: Brought in two cattle guards, 193 feet of 5½ inch OD surface pipe, 25 sacks of cement, Baker float, and orbit shut off valve. Fence laid out at well location.

May 4, 1959: Rig moved into location and drilled 206 feet of 6 3/4 inch hole. Indians erecting fence.

May 5, 1959, Tuesday: Pipe and cattle guards moved to location. One hundred ninety feet and six inches of surface pipe set with Baker float. Fence built.

May 6, 1959, Wednesday: Surface string cemented with 24 sacks of Ideal No. 1 cement. Drive plug with drill pipe to 170 feet. Good return of cement to surface outside of 5½ inch surface string. Finished at 10:30 a.m. Wire put on fence.

May 7, 1959, Thursday: Drilled out from under shoe at 10:30 a.m. Continued drilling and changed over to drag bit at 560 feet. Fence finished and cattle guards installed.

May 8, 1959, Friday: Drill from 560 feet to 655 feet. Lost drill, sub and drill pipe collar. Fishing spear and overshot picked up in New Mexico and brought out fish on second run with spear.

May 9, 1959, Saturday: Drilled from 655 feet to 680 feet. Small yield of water encountered at 660 feet in limestone lens. Quit drilling with air and started drilling with mud at 660 feet using rock bit. Drill to 680 feet then burned out bearing on drawworks.

May 10, 1959, Sunday: New bearing installed and other repairs made on drawworks. No drilling.

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR **Wilkinson Oil & Gas Co.,** DATE **June 1, 1959**  
**Phoenix** **Arizona**  
City State

Address **444 W. Camelback Rd.,**

DESCRIPTION OF WELL AND LEASE

Name of lease <b>State</b>	Well number <b>2</b>	Elevation (ground) <b>5597'</b>
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Well location (give footage from section lines) **SENESEW; Sec. 28, T. 19 N., R. 26 E.** Section--township--range or block & survey **2450' EWL; 1800 NSL;**

Field & reservoir (if wildcat, so state) **Wildcat** County **Apache**

Distance, in miles, and direction from nearest town or post office  
**6 Miles SW of Navajo, Arizona**

Nearest distance from proposed location to property or lease line:  feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <b>200' SW</b> feet
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Proposed depth: <b>1250'</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start: <b>June 1, 1959</b>
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Number of acres in lease: <b>640</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>No</b>
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If lease, purchased with one or more wells drilled, from whom purchased: Name Address

Status of bond **Written 6/1/59** **Western Surety Company**

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

• Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Acting Agent of the Wilkinson Oil-Gas (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.

[Signature]  
Signature

Permit Number: 87  
 Approval Date: June 18, 1959  
 Approved By: Obed M. Larsen

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.  
 See Instruction on Reverse Side of Form

STATE OF ARIZONA STATE LAND COMMISSIONER

Application to Drill, Deepen or Plug Back

Form No. P-1 File two copies

Authorized by Order No. 4-6-59  
 Effective April 6, 1959

87

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**INSTRUCTIONS**

**READ CAREFULLY AND COMPLY FULLY**

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

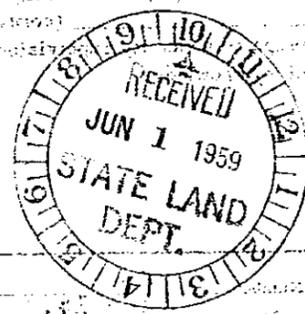
Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
8 5/8	24	1-T&C	0	185	Circ.	
4 1/2	-	1-T&C	170	1250	Circ.	

Form No. P-1



STATE OF ARIZONA DEPARTMENT OF STATE LANDS

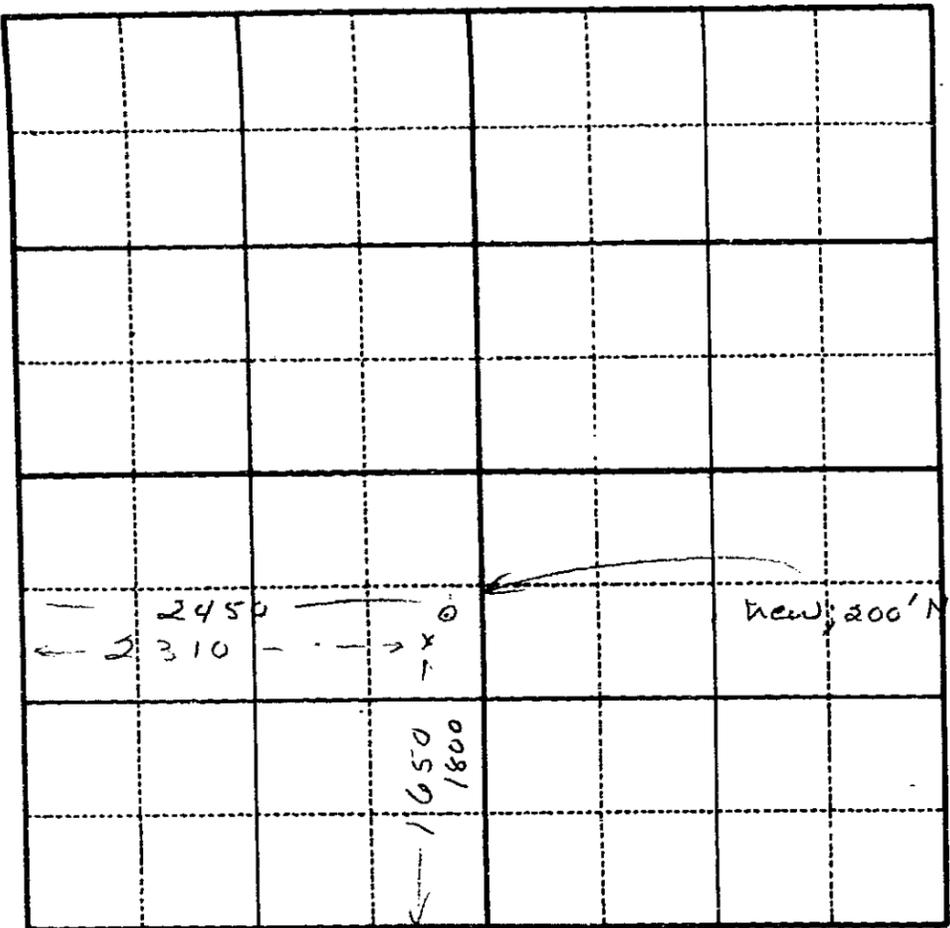
APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

SEC. 28 T. 19 R. 26E



SCALE 1" = 1000'

ABSTRACTED \_\_\_\_\_ AREA \_\_\_\_\_

PLAT OF SURVEY FILED \_\_\_\_\_

New Bond  
New Permit  
Solid Plug old hole,





BOND

KNOW ALL MEN BY THESE PRESENTS, Bond No. 996000-59

That we: Wilkinson Oil & Gas Company

of the County of: Maricopa in the State of: Arizona

as Principal, and WESTERN SURETY COMPANY, a corporation

of Sioux Falls, South Dakota authorized to do business within the State of Arizona,

as surety, are held and firmly bound unto the 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 condition of this obligation is 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:

Two (200) Hundred Feet Northeast of the well located at the Northeast 1/4 (May be used as blanket bond or for single well) of the Southwest 1/4 of Section 28, Township 19 North, Range 26, East, Apache County, Arizona, known as Wilkinson Oil & Gas Company, Sunland Development, State No. 1.

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 State Land Commissioner, 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 State Land Commissioner all notices and records required by said Commissioner, 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.

Penal sum of Two Thousand Five Hundred and No/100 (\$2,500.00)

Witness our hands and seals, this 18th day of June, 1959

**CANCELLED**

WILKINSON OIL & GAS Co  
Phil Wilkinson  
Principal

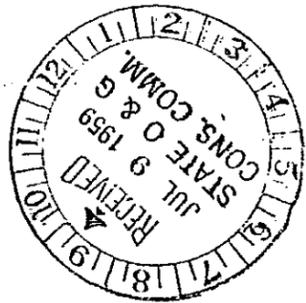
DATE 4-11-61 Witness our hands and seals, this 18th day of June, 1959

WESTERN SURETY COMPANY  
By: M Baker  
M. BAKER, ASST. SECRETARY Surety

(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.)

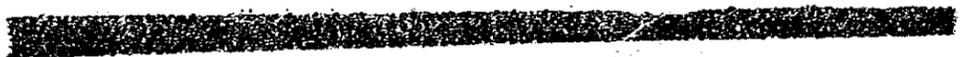
Approved June 18, 1959  
Date

Obed M. Larson  
STATE LAND COMMISSIONER



~~11438~~

000001



STATE OF TEXAS }  
County of Dallas } ss.

On this 18th day of June, 19 59, before me, a Notary Public in and

for said County, personally appeared M. BAKER, ASST. SECRETARY  
personally known to me, who being by me duly sworn, did say that he is the aforesaid officer of the  
WESTERN SURETY COMPANY, a corporation duly organized and existing under the laws of the State  
of South Dakota, that the seal affixed to the foregoing instrument is the corporate seal of said corpora-  
tion, that the said instrument was signed, sealed and executed in behalf of said corporation by authority  
of its Board of Directors, and further acknowledge that the said instrument and the execution thereof to  
be the voluntary act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my official seal at Dallas,  
Texas, the day and year last above written.

My commission expires

JUN 1 1961, 19

*Betty Harris*  
Notary Public

April 11, 1961

State Land Department  
4th Floor Office Building, East  
Phoenix 7, Arizona

Attention: Mr. Frederick C. Ryan

Re: Wilkinson Oil and Gas Company State #2  
SE NE SW Sec. 28, T 19 N, R 26 E, Apache Co.

Gentlemen:

This is to advise that the above captioned test  
has been properly completed and we have given  
authorization to release the bond.

We are closing our files on this test.

Yours very truly,

Brooks Pierce  
Petroleum Geologist

BP:hme

February 28, 1961

Western Surety Company  
1401 E. Camelback Road  
Phoenix, Arizona

Attention: Mr. Earle C. Woodland

Re: Bond #996000-59  
Wilkinson Oil & Gas Co., State #2

Dear Sir:

This is your authority to release Mr. Samuel F. Turner from the above named bond, covering the drilling operations of the Wilkinson Oil & Gas Company, #2 State well, located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 28, T. 19N, R. 26E.

Yours very truly,

Brooks Pierce  
Petroleum Geologist

BP/ew

**TURNER AND ASSOCIATES**

**CONSULTING  
GEOLOGISTS, ENGINEERS  
AND GEOPHYSICISTS  
SPECIALIZING IN WATER**

**350 EAST CAMELBACK ROAD  
CRESTWOOD 4-2262  
PHOENIX, ARIZONA**

**SAMUEL F. TURNER  
REGISTERED GEOLOGIST  
REGISTERED ENGINEER**

February 27, 1961

Oil and Gas Conservation Commission  
State of Arizona  
3500 North Central Ave., Suite 211  
Phoenix 12, Arizona

Dear Sirs:

Enclosed you will find original and one copy of the Abandonment and Plugging Record for Wilkinson Oil & Gas Well No. 2. We will greatly appreciate your sending the proper notification regarding the bond with the Western Surety Company to Earl C. Woodland, Jr., 1401 E. Camelback Rd., Phoenix, Arizona.

I greatly appreciate your cooperation in this matter.

Very truly yours,

TURNER AND ASSOCIATES

*Samuel F. Turner*  
Samuel F. Turner

SFT.e  
encls

**TURNER AND ASSOCIATES**

SAMUEL F. TURNER  
REGISTERED GEOLOGIST  
REGISTERED ENGINEER

CONSULTING  
GEOLOGISTS, ENGINEERS  
AND GEOPHYSICISTS  
SPECIALIZING IN WATER

350 EAST CAMELBACK ROAD  
CRESTWOOD 4-2262  
PHOENIX, ARIZONA

February 20, 1961

Oil and Gas Conservation Commission  
State of Arizona  
3500 North Central Avenue - Suite 312  
Phoenix 12, Arizona

Dear Sirs:

This letter relates to Wilkinson Oil and Gas Company Well No. 2, located in the SE $\frac{1}{4}$ , NE $\frac{1}{4}$ , SW $\frac{1}{4}$ , Sec. 28, T. 19 N., R. 26 E. This well is located about 100 feet north of Well No. 1.

The well was drilled to a total depth of 960 feet, using a rotary drill. It was completed on June 3, 1959. The hole diameter was approximately 6 inches.

At 8:38 p.m., on June 3, Welex started in the hole with an induction probe but found a bridge at 519 feet and could not penetrate deeper than 520 feet. Driller reported that continuous return of light green silt stone in the drill cuttings indicated that hole was caving from a depth of 325 to 600 feet.

On June 4, the driller cleaned out the mud pits and made up new mud with six sacks of bentonite and went to the bottom of the hole at 960 feet with the drill. They circulated additional mud bringing more silt stone up from 300 to 600 feet. Again, Welex started into the hole but could not pass 522 feet. The driller went in with a drill stem and bit to 600 feet and Welex tried again but hung up at 600 feet.

On June 5, the driller ran in a drill pipe with a 6 $\frac{1}{2}$  inch Hawthorne bit and ran to 953 feet. Welex went in immediately with the logging probes and bottomed at 900 feet, then they ran the logs which have been placed on file.

Oil and Gas Conservation Commission  
Page 2

As can be seen from the above description, the well was caving badly and was filled with extra heavy bentonitic mud in order to run the logs. On June 9, 1959, the driller reported that the mud level in the hole stood at 113 feet below the surface and that this balanced the displacement in pulling out the wet drill pipe. To the best of my knowledge, this was the way that the hole was left.

The surface casing in the well was apparently never cemented and was pulled. Therefore there is no casing in the hole. The only water encountered was salty water in the Coconino sandstone. Therefore no fresh water aquifer is involved. Mr. Silas C. ("Buzz") Brown, the geologist for the well, agrees with this statement.

My involvement in the matter came about as follows. The driller, Mr. C. T. Henderson, and I have worked together on many water wells. He was to drill this hole and part of his job was to furnish the completion bond. However, since the U. S. Government had taken his drill rigs for income tax matters, he was not able to make the bond and I signed the bond for him.

When Well 2 was completed they expected to raise more money and make a thorough test but Mr. Wilkinson left the country with some of the funds involved and the rest of the backers fell apart. Therefore I have been left holding the bag, as it is sometimes called.

The driller, Mr. C. T. Henderson, has been able to rent a small churn drill rig and is making a bare living drilling water wells. However, this rig is available to me to plug this well. Mr. Henderson will furnish the rig and his time but he does not have the finances to pay for the operating expense, moving the rig up there and plugging the hole so this is up to me.

It is our plan to open the hole as deep as possible with the churn drill rig, set a plug at the bottom, fill the intervening space, if any, with heavy mud and then set

Oil and Gas Conservation Commission  
Page 3

the concrete plug and the required marker at the surface of the ground. If approved, we expect to move on the well on February 22, and the well will be plugged by the end of the week.

I will greatly appreciate any consideration you can give me on approving this matter.

Very truly yours,

TURNER AND ASSOCIATES

  
Samuel F. Turner

SFT/cn

CR 42262

January 23, 1961

Mr. Harry Ruppelius  
Sunland Development Co.  
1505 N. 15th Avenue  
Phoenix, Arizona

Dear Mr. Ruppelius:

Enclosed is a letter we received from Mr. Turner's secretary.

As soon as we receive a reply from Mr. Turner, we will send you a copy of his letter.

Yours very truly,

D. A. Jerome  
Executive Secretary

EW  
Enc.

**TURNER AND ASSOCIATES**

SAMUEL F. TURNER  
REGISTERED GEOLOGIST  
REGISTERED ENGINEER

CONSULTING  
GEOLOGISTS, ENGINEERS  
AND GEOPHYSICISTS  
SPECIALIZING IN WATER

350 EAST CAMELBACK ROAD  
CRESTWOOD 4-2262  
PHOENIX, ARIZONA

January 20, 1961

Re: Wilkinson Oil & Gas Company-  
Sunland Development-Well No. 2

Mr. D. A. Jerome, Executive Secretary  
Oil and Gas Conservation Commission  
3500 North Central - Suite 221  
Phoenix 12, Arizona

Dear Mr. Jerome:

In answer to your letter of January 18, 1961, Mr. Turner  
is in the hospital. I will give your letter to him as soon  
as possible.

Very truly yours,

TURNER AND ASSOCIATES

*Catherine S. Newell*  
Catherine S. Newell,  
Secretary for Samuel F. Turner

cn

January 18, 1961

Turner & Associates  
350 E. Camelback Road  
Phoenix, Arizona

Attention: Samuel F. Turner

Dear Mr. Turner:

A year ago this date, you wrote the Commission a letter in which you stated that certain things would be done on Well #2, which is the Wilkinson Oil & Gas Company-Sunland Development, State #2, in Apache County, Section 28, T. 19N, R. 26E. To date, we have not heard from you, and it would be greatly appreciated if you would advise us when we can expect this well to be either drilled deeper or plugged and abandoned.

Mr. Harry Ruppelius has consulted the Commission and is desirous to be released on the bond. We do not desire to be harsh, but this well #2 was completed June 5, 1959, and we have had no filing of logs or samples with the Commission. After a period this long, it is necessary that the well either be drilled or plugged.

Kindly advise us at your earliest convenience.

cc: Mr. Harry Ruppelius  
Sunland Develop. Co.  
1505 N. 15th Avenue

Yours very truly,

D. A. Jerome  
Executive Secretary

DAJ/ew

From the desk . . .

W. F. MAULE

March 2, 1960

Dear Sam,

I sent this to wilkinson Oil & Gas Co. and  
it was returned unclaimed.

Yours truly,

W.F. Maule,  
Petroleum Engineer

*Form letter*

Form letter sent February 25, 1960, by instructions  
of Petroleum Engineer, W.F. Smith

82

87

February 17, 1960

Turner & Associates  
350 E. Camelback Road  
Phoenix, Arizona

ATTENTION: Mr. Samuel F. Turner

Dear Sam:

We are returning herewith, an "Approved Copy" of the Plugging Record Form, on the Wilkinson Oil & Gas Company, State #1 Well, in Apache County, Arizona, and hereby release your Bond, No. 981848-59, in the amount of twenty-five hundred dollars (\$2,500.), with the Western Surety Company, dated April 27, 1959, which covers the above well.

Also, additional forms for the #2 Well, which you requested, are enclosed.

Thanks,

William F. Maule,  
Petroleum Engineer

WFM:mar

Enclosures:

3 of - Application to Abandon & Plug (Form 15A)  
3 of - Plugging Record (Form P-15)

*File*

Letter

Turner & Associates  
350 E Camelback Rd  
Phoenix, Ariz

Att. Samuel F. Turner.

Dear Sam:

We are returning  
here with an  
copy of the logging record  
on the Wilkinson oil & gas Co.  
State # 1 well in Apache  
City area and hereby  
release your bond, # 981848-59  
in the amount of \$2500. with the  
Western Surety Company, dated  
27<sup>th</sup> April 1959 which covers  
~~this well~~ the above well.

also additional forms for  
the # 2 well which you  
requested.

87 Thanks,



February 10, 1960

Mr. Sam Turner  
TURNER & ASSOCIATES  
350 E. Camelback Road  
Phoenix, Arizona

Dear Sam:

Don't forget to include "emergency plugging authorization" received from Mr. M. F. Wharton February 8, 1960.

Enclosed are the Application to Abandon and Plug forms, in accordance with our conversation.

Yours very truly,

William F. Maule,  
Petroleum Engineer

WFM:mar

Enclosures:

**TURNER AND ASSOCIATES**

CONSULTING  
WATER AND MINING GEOLOGISTS  
AND GEOPHYSICISTS

350 EAST CAMELBACK ROAD  
CRESTWOOD 4-2262  
PHOENIX, ARIZONA

SAMUEL F. TURNER  
REGISTERED GEOLOGIST  
REGISTERED ENGINEER

ROBERT L. WELLS  
REGISTERED GEOLOGIST

January 18, 1960

The Arizona State Oil and Gas Commission  
3500 North Central Avenue - Suite 312  
Phoenix, Arizona

ATTENTION: Mr. Maule

Dear Mr. Maule:

Enclosed you will find the original typed copy of my transcription of notes taken by Charlie Freesh on the Wilkinson Oil and Gas Company, Well No. 1 and then, going to Well No. 2. Also, enclosed is a copy of the radioactivity log on Well No. 1. This consists of a gamma ray and a neutron log. I am enclosing field prints of the induction electric log and of the contact micro log taken on Well No. 2. This was called Well No. 1 by Wilkinson under some mistaken idea of his but the last two items were taken on Well No. 2 or the second well drilled.

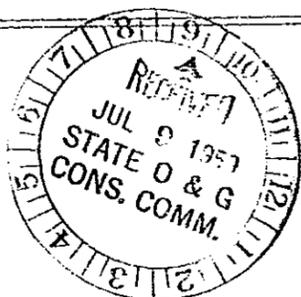
It is my plan to get on the property as soon as weather conditions permit and check the depth that is open on Well 1 inside the casing and check the condition of Well 2. A fence will be put around each well site to keep stock out, on our first trip to the property. As soon as weather conditions will permit, a rig that is now on a well in Western New Mexico will be moved to this site and Well No. 2 will be plugged. We can state that all of this work will be done by June 30. In case interested parties wish to take over responsibility for Well 2 and drill it deeper, the proper arrangements will have to be made with your office. We will keep you informed and will let you know when we plan to go on the property for the fencing and when we plan to move a rig onto the property.

Very truly yours,

*Samuel F. Turner*  
Samuel F. Turner

SFT/cn

EARLE C. WOODLAND, JR.  
General Insurance



1401 EAST CAMELBACK ROAD  
P. O. Box 10235  
TELEPHONE: AMHERST 6-9311  
PHOENIX, ARIZONA  
June 29, 1959

Mr. Phil Wilkinson  
Navajo, Arizona

Re: Bond No. 996000-59  
Western Surety Co.

Dear Mr. Wilkinson:

The bond has been in our office since last Wednesday and I have tried to telephone several times but get no response. I wrote a letter to your home but have had no response so am sending the bond on to you at Navajo. I hesitated to mail it up there but perhaps this is best.

Please sign on the line marked "Principal" and then send it on to Mr. F. Ryan. An envelope is enclosed.

Sorry this has been so long in getting to you, but it is just "one of those things" and trust that all is now to your satisfaction.

Very truly yours,

EARLE C. WOODLAND, JR. INS.

*Earlene Campbell*

The  
Connecticut  
Fire Ins. Co.



Pacific Dept.  
500 Mills Bldg.  
San Francisco  
California

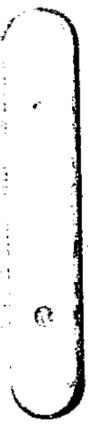
dc  
Encs.

87



~~11-438~~

600001



Per FCR: - June 1, 1959

Western Surety assured him that they had written bond in the amount of \$2500 for the new well which is to be located 200' NE of the first hole in Section 28, T. 19 N., R. 26 E.

Per MB:

Spoke to Mr. Woodland 6/5/59 and he stated that the bond would be forthcoming just as soon as Mr. Wilkinson signed the bond. Mr. W. was expected in their office today.

See Daily log 6/11/59.

6/23/59: Spoke to secretary again (MB) and she stated that bond should be received in their office today. Mr. Woodland took care of it last Saturday. She will mail or bring it out here as soon as she receives it from Dallas.

John  
call  
Keith Walden  
Inson

Apr. 50

622-3377

Smiland Development Co.

170 ft

655 in  $1\frac{1}{2}$  hrs w/air

then

WILKINSON OIL & GAS COMPANY

W. F. MAULE

1. Ruppelius wants to know what he has to do as lessee, to satisfy the Commission in regard to the two wells drilled by Wilkinson.
2. Johnson, in Tucson, knows very little. Suggests we contact Bob Laus, Durango, Colorado, who took over from Freesh, as Geologist.
3. Talked to Earle Woodland, re. Bond. He has recommended to his company that the Bond be cancelled, non-payment of fee; says he has some charges to file.
4. Sam Turner & Associates says C. T. Henderson was driller on well - YE 7-3129. Black Canyon Freeway - 1st home on N. - 2614 Freeway Lane. 12/2/59 - Car in driveway, no one home.
5. Talked W/Brown (Scottsdale), Geologist, on well, WH 6-2701, will contact Laus on samples and logs - Wilkinson owes him also.

CONCLUSIONS: No completion report filed.

- A. Apparently Ruppelius wants to clear-up and get out of this mess with Wilkinson. Further, it appears the wells were drilled, Casing Set, perf. and tested, showing water. It will be necessary for lessee to file FM P-15A, intention to abandon and P-15, upon completion of plugging.
- B. Inasmuch as more than 6 months (#2 Completed 6/5/59) has lapsed since completing wells, he is delinquent in filing logs and samples with Commission.

NOTE:

Suggest various cementing companies be informed that we require affidavit on cement and plug jobs.

