

STATE OF KANSAS  
STATE CORPORATION COMMISSION  
Give All Information Completely  
Make Required Affidavit  
Mail or Deliver Report to:  
Conservation Division  
State Corporation Commission  
212 No. Market  
Wichita, Kansas

Form CP-4

WELL PLUGGING RECORD

NORTH

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Locate well correctly on above Section Plat

Pratt County, Sec. 34 Twp. 29S Rge. (E) 14 (W)  
Location as "NE/CNWSW" or footage from lines SW/4 SW/4 SW/4  
Lease Owner Skelly Oil Company  
Lease Name F. L. Buck Well No. 1  
Office Address 1860 Lincoln Street, Denver, Colorado 80203  
Character of Well (completed as Oil, Gas or Dry Hole) Oil  
Date well completed April 10, 1959  
Application for plugging filed February 13, 1969  
Application for plugging approved February 17, 1969  
Plugging commenced March 25, 1969  
Plugging completed April 26, 1969  
Reason for abandonment of well or producing formation Depleted Oil

If a producing well is abandoned, date of last production February 28, 1969  
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well R. J. Warren, Box 322, Pratt, Kansas  
Producing formation Viola Depth to top 4501' Bottom 4522' Total Depth of Well 4523-1/2' Feet PB  
Show depth and thickness of all water, oil and gas formations.

| OIL, GAS OR WATER RECORDS |         |       |       | CASING RECORD |           |            |
|---------------------------|---------|-------|-------|---------------|-----------|------------|
| FORMATION                 | CONTENT | FROM  | TO    | SIZE          | PUT IN    | PULLED OUT |
| Viola                     | Oil     | 4501' | 4522' | 8-5/8"        | 921-1/2'  | None       |
|                           |         |       |       | 5-1/2"        | 4588-1/2' | 3743'      |
|                           |         |       |       |               |           |            |
|                           |         |       |       |               |           |            |
|                           |         |       |       |               |           |            |
|                           |         |       |       |               |           |            |
|                           |         |       |       |               |           |            |
|                           |         |       |       |               |           |            |

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from feet to feet for each plug set.

3/25/69 Moved in and rigged up casing pulling machine.  
Plugged back with sand from 4523' to 4490'. 5 sacks of cement from 4490' to 4450'.  
Pulled 21" tension on 5-1/2" OD casing.  
Shot 5-1/2" casing at 3825', 3760', 3727'; casing pulled free at 3727'.  
Pulled casing to approximately 2500', well started blowing gas through 5-1/2" casing.  
Killed well with mud.  
Pulled 113 joints (3743') 5-1/2" 14# R2 SS J-55 8R condition "C" casing.  
Plugged as follows:  
4450' - 260' -- Mud  
260' - 250' -- Rock Bridge  
250' - 175' -- 25 Sacks Cement  
175' - 40' -- Mud  
40' - 30' -- Rock Bridge  
30' - Base of Cellar -- 10 Sacks Cement  
Filled cellar to ground level with surface soil.  
Completed P&A 4/26/69.

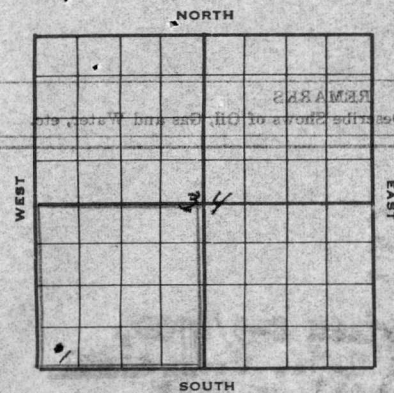
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Wichita, Kansas

(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor Russ Casing Pulling Company  
Address Box 1082, Great Bend, Kansas

STATE OF Colorado, COUNTY OF Denver, ss.  
Leland Franz (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Leland Franz  
1860 Lincoln Street, Denver, Colorado 80203  
(Address)

SUBSCRIBED AND SWORN TO before me this 30th day of April 1969  
My commission expires June 17, 1970  
Notary Public.



## SKELLY OIL COMPANY

| FORMATION                     |  | TOP                                                       | BOTTOM | REMARKS                                                                                                                 |
|-------------------------------|--|-----------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------|
| Well Record                   |  |                                                           |        |                                                                                                                         |
| Lease Name and No.            |  | F. L. Buck #51339                                         |        | Well No. 1 Elev. 1966' DB                                                                                               |
| Lease Description             |  | SW/4 Section 34-29S-14W, Pratt County, Kansas (160 Acres) |        | 1964' DB                                                                                                                |
| Location made                 |  | February 15, 19 59 by T. L. Dix                           |        | 1962' DB                                                                                                                |
| feet from North line          |  | feet from East line                                       |        |                                                                                                                         |
| 330 feet from South line      |  | 330 feet from West line                                   |        | of Sec. 34                                                                                                              |
| Work com'd 2/12 19 59         |  | Rig comp'd 2/19 19 59                                     |        | Drlg. com'd 2/19 19 59                                                                                                  |
| Drlg. comp'd 3/9 19 59        |  |                                                           |        |                                                                                                                         |
| Rig Contractor                |  | Claude Wentworth Drlg. Co., Inc.                          |        |                                                                                                                         |
| Drilling Contractor           |  | Claude Wentworth Drlg. Co., Inc., Tulsa, Oklahoma         |        |                                                                                                                         |
| Rotary Drilling from          |  | 0' to 4559'                                               |        | Cable Tool Drilling from To Complete to                                                                                 |
| Commenced Producing           |  | April 10, 19 59                                           |        | Initial Prod. before shot or acid Show of oil Bbls.                                                                     |
|                               |  |                                                           |        | Initial Prod. after shot or acid POB 8 hrs., 29.29 bbl w/ trace wtr. to estab. 24 hr. SCC potential of 88 barrels Bbls. |
| Dry Gas Well Press            |  |                                                           |        | Volume Cu. ft.                                                                                                          |
| Casing Head Gas Pressure      |  |                                                           |        | Volume Cu. ft.                                                                                                          |
| Braden Head (8-5/8" x 51" OD) |  | Gas Pressure                                              |        | Volume Cu. ft.                                                                                                          |
| Braden Head ( )               |  | Gas Pressure                                              |        | Volume Cu. ft.                                                                                                          |
| PRODUCING FORMATION           |  | Viola Line (Name)                                         |        | Top 4501' Bottom 4522' TOTAL DEPTH 4559' PB 45234'                                                                      |

## CASING RECORD

| Size                                                                        | Wt.  | Thds. | Where Set | PULLED OUT |      |     | LEFT IN |      |     | KIND      | Cond'n | CEMENTING  |                   |
|-----------------------------------------------------------------------------|------|-------|-----------|------------|------|-----|---------|------|-----|-----------|--------|------------|-------------------|
|                                                                             |      |       |           | Jts.       | Feet | In. | Jts.    | Feet | In. |           |        | Sacks Used | Method Employed   |
| 8-5/8"                                                                      | 22.7 | SJ    | 916'      |            |      |     | 23      | 921  | 6   | Armaco SW | A      | 475        | Halliburton 912'  |
| 5-1/2"                                                                      | 14.8 | BR    | 4557'     |            |      |     | 138     | 4588 | 6   | J55 R2 SS | A      | 150        | Halliburton 4554' |
| (8-5/8" casing set 2' below ground surface, and 5 1/2" set 1' above ground) |      |       |           |            |      |     |         |      |     |           |        |            |                   |
| 5 1/2" casing perforations open:                                            |      |       |           |            |      |     |         |      |     |           |        |            |                   |
| Above PB TD: 4501'-4522' with 118 holes                                     |      |       |           |            |      |     |         |      |     |           |        |            |                   |
| Below PB TD: 4541'-45434' with 10 holes                                     |      |       |           |            |      |     |         |      |     |           |        |            |                   |

|               |               |               |
|---------------|---------------|---------------|
| Liner Set at  | Length        | Perforated at |
| Liner Set at  | Length        | Perforated at |
| Packer Set at | Size and Kind |               |
| Packer Set at | Size and Kind |               |

## SHOT OR ACID TREATMENT RECORD

|                                     | FIRST                 | SECOND                | THIRD                  | FOURTH         |
|-------------------------------------|-----------------------|-----------------------|------------------------|----------------|
| Date                                | 3/20/59               | 3/21/59               | 3/25/59                |                |
| Acid Used                           |                       |                       |                        |                |
| Size Shot                           | Gals. Qts. 250        | Gals. Qts.            | Gals. Qts.             | Gals. Qts.     |
| Shot Between                        | 4541 Ft. and 4545 Ft. | 4541 Ft. and 4545 Ft. | 4541 Ft. and 45434 Ft. | Ft. and Ft.    |
| Size of Shell                       |                       |                       |                        | For remaining  |
| Put in by (Co.)                     | Halliburton           | Halliburton           | Halliburton            | treatments see |
| Length anchor                       | Vis-O-Frac            |                       | Sand-Oil-Frac          | remarks        |
| Distance below Cas'g                |                       |                       |                        |                |
| Damage to Casing or Casing Shoulder |                       |                       |                        |                |

## SIGNIFICANT GEOLOGICAL FORMATIONS

| NAME          | Top   | Bottom | GAS  |    | OIL   |       | REMARKS               |
|---------------|-------|--------|------|----|-------|-------|-----------------------|
|               |       |        | From | To | From  | To    |                       |
| Heebner Shale | 3819' |        |      |    |       |       |                       |
| Lansing Lime  | 3996' |        |      |    |       |       |                       |
| Wormaton Lime | 4400' |        |      |    |       |       |                       |
| Viola Line    | 4491' |        |      |    | 4501' | 4522' | Prod. thru csg. perf. |
| Simpson Sand  | 4540' |        |      |    |       |       |                       |
|               |       |        |      |    |       |       |                       |
|               |       |        |      |    |       |       |                       |

## CLEANING OUT RECORDS

|     | DATE COMMENCED | DATE COMPLETED | PROD. BEFORE | PROD. AFTER | REMARKS                        |
|-----|----------------|----------------|--------------|-------------|--------------------------------|
| 1st |                |                |              |             | See Reverse for other details. |
| 2nd |                |                |              |             | " " " " "                      |
| 3rd |                |                |              |             | " " " " "                      |
| 4th |                |                |              |             | " " " " "                      |

## PLUGGING BACK AND DEEPENING RECORDS

|     | Date Commenced | Date Completed | No. Feet Plugged Back or Deepened | Prod. Before | Prod. After | REMARKS                        |
|-----|----------------|----------------|-----------------------------------|--------------|-------------|--------------------------------|
| 1st |                |                |                                   |              |             | See Reverse for other details. |
| 2nd |                |                |                                   |              |             | " " " " "                      |
| 3rd |                |                |                                   |              |             | " " " " "                      |
| 4th |                |                |                                   |              |             | " " " " "                      |

(See Reverse for Record of Formation)



RECORD OF FORMATIONS

| FORMATION                                                                                                                                                                                                                                                                                                                                                                  | TOP  | BOTTOM | REMARKS                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indicate Casing Points, Describe Shows of Oil, Gas and Water, etc.                                                                                                                                                                                                                                                                                                         |      |        |                                                                                                                                                                                                                 |
| Surface soil, sand and clay                                                                                                                                                                                                                                                                                                                                                | 0    | 125    |                                                                                                                                                                                                                 |
| Sand                                                                                                                                                                                                                                                                                                                                                                       | 125  | 190    |                                                                                                                                                                                                                 |
| Red bed, clay and shale                                                                                                                                                                                                                                                                                                                                                    | 190  | 590    |                                                                                                                                                                                                                 |
| Shale and shells                                                                                                                                                                                                                                                                                                                                                           | 590  | 1000   | Set and cemented 8-5/8" OD, 22.7%, Armco S.W., S.J. steel casing (A cond.) at 916' with 475 sacks of common cement, 2% Cel and 1% calcium chloride, cement circulated. Finished cementing at 4:00 p.m. 2/21/59. |
| Shale                                                                                                                                                                                                                                                                                                                                                                      | 1000 | 1465   |                                                                                                                                                                                                                 |
| Shale and shells                                                                                                                                                                                                                                                                                                                                                           | 1465 | 1700   |                                                                                                                                                                                                                 |
| Line and shale                                                                                                                                                                                                                                                                                                                                                             | 1700 | 2658   |                                                                                                                                                                                                                 |
| Shale                                                                                                                                                                                                                                                                                                                                                                      | 2658 | 2790   |                                                                                                                                                                                                                 |
| Shale and shells                                                                                                                                                                                                                                                                                                                                                           | 2790 | 2910   |                                                                                                                                                                                                                 |
| Line and shale                                                                                                                                                                                                                                                                                                                                                             | 2910 | 3635   |                                                                                                                                                                                                                 |
| Line                                                                                                                                                                                                                                                                                                                                                                       | 3635 | 3745   |                                                                                                                                                                                                                 |
| Line and shale                                                                                                                                                                                                                                                                                                                                                             | 3745 | 4015   |                                                                                                                                                                                                                 |
| Line                                                                                                                                                                                                                                                                                                                                                                       | 4015 | 4491   |                                                                                                                                                                                                                 |
| Line and shale                                                                                                                                                                                                                                                                                                                                                             | 4491 | 4492   |                                                                                                                                                                                                                 |
| Mostly fresh chert                                                                                                                                                                                                                                                                                                                                                         | 4492 | 4523   |                                                                                                                                                                                                                 |
| Poor porosity, 20% has poor to fair spotted stain.                                                                                                                                                                                                                                                                                                                         |      |        |                                                                                                                                                                                                                 |
| <p>Run Halliburton drill stem test No. 1, packer set at 4495', used 28' anchor, open 64 minutes, gas to surface in 5 minutes, gas gauged 167 MCF decreasing to 139 MCF in 10 minutes, recovered 60' of oil and gas cut mud, 150' oil and gas cut fluffy mud, 150' oily muddy water, 60' muddy water, IBHP-1545/ in 20 minutes, IFF-85/ in 1757, FBHP-1460/ in 20 mins.</p> |      |        |                                                                                                                                                                                                                 |
| Cored from 4523' to 4528' - Recovered 5'                                                                                                                                                                                                                                                                                                                                   |      |        |                                                                                                                                                                                                                 |
| Top 1' - Buff to light gray lime and chert breccia fractures filled with gilsonite and gray shale                                                                                                                                                                                                                                                                          |      |        |                                                                                                                                                                                                                 |
| Next 3' - Same as above with few spots of dark stain in fractures                                                                                                                                                                                                                                                                                                          |      |        |                                                                                                                                                                                                                 |
| Last 1'6" - Fractured chert and partly sandy lime with several thin green shale streaks                                                                                                                                                                                                                                                                                    |      |        |                                                                                                                                                                                                                 |
| Cored from 4528' to 4547' - Recovered 19'                                                                                                                                                                                                                                                                                                                                  |      |        |                                                                                                                                                                                                                 |
| Top 5' - Lime, partly fractured, cherty at top with shale streaks                                                                                                                                                                                                                                                                                                          |      |        |                                                                                                                                                                                                                 |
| TOP SIMPSON SHALE 4532'                                                                                                                                                                                                                                                                                                                                                    |      |        |                                                                                                                                                                                                                 |
| Next 3'6" - Dolomite, partly fractured and shaley                                                                                                                                                                                                                                                                                                                          |      |        |                                                                                                                                                                                                                 |
| Next 3'6" - Shale with streaks of sandy dolomite                                                                                                                                                                                                                                                                                                                           |      |        |                                                                                                                                                                                                                 |
| TOP SIMPSON SAND 4540'                                                                                                                                                                                                                                                                                                                                                     |      |        |                                                                                                                                                                                                                 |
| Last 7' - Sand, slightly shaly and partly dolomitic, fair porosity, poor to fair spotted light stain.                                                                                                                                                                                                                                                                      |      |        |                                                                                                                                                                                                                 |
| <p>Run Halliburton drill stem test No. 2 with packer set at 4539', used 8' anchor, open 65 minutes, good blow of air throughout test, gas to surface in 60 minutes, too small to gauge, recovered 130' gas cut oily mud, SI 30 mins., IBHP-1176#, IFF-20#, FFP-45#, FBHP-1070/ in 30 mins.</p>                                                                             |      |        |                                                                                                                                                                                                                 |
| Cored from 4547' to 4557' - Recovered 9'                                                                                                                                                                                                                                                                                                                                   |      |        |                                                                                                                                                                                                                 |
| Top 6" - Sand, slightly shaly and dolomitic, poor porosity, fair spotted stain                                                                                                                                                                                                                                                                                             |      |        |                                                                                                                                                                                                                 |
| Next 2' - Sand, good porosity, good even stain                                                                                                                                                                                                                                                                                                                             |      |        |                                                                                                                                                                                                                 |
| Next 2' - Sand, fair porosity, fair spotted stain                                                                                                                                                                                                                                                                                                                          |      |        |                                                                                                                                                                                                                 |
| Next 4'6" - Sand, slightly shaly and dolomitic, poor porosity, poor spotted stain                                                                                                                                                                                                                                                                                          |      |        |                                                                                                                                                                                                                 |
| Last 6" - Sand, good porosity, very friable, light even stain, fair odor                                                                                                                                                                                                                                                                                                   |      |        |                                                                                                                                                                                                                 |

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Ran Halliburton drill stem test No. 3, packer set at 4547', used 10' of anchor, open 65 minutes, good blow of air throughout test, recovered 300' gas in drill pipe, 60' of oil and gas cut mud, and 2500' of salt water, IHP-1243# in 30 mins., IFP-255#, FFP-1188#, FBHP-1243# in 30 minutes.

Shale and sand

4557

4559

Ran Schlumberger Survey Set and cemented 5 1/2" OD, 14#, 8R thd., R-2, J-55, S.S. casing (A cond.) at 4557' with 150 sacks of common cement, 2% Gel, finished 9:00 a.m. 3/10/59. Halliburton Temperature Survey showed top of cement behind 5 1/2" casing at 3775'.

TOTAL DEPTH 4559'

Total depth reached 3/9/59

Moved in and rigged up cable tools and bailed the hole dry on March 14 to 4521'SLM. Drilled cement plug and cleaned out to bottom, 4559'. Swabbed through 5 1/2" casing 4 hours, 24 barrels of salt water per hour, no oil.

Set Baker bridging plug at 4553'. Swabbed and bailed the hole dry and 5 1/2" casing tested dry.

Casing Perforation No. 1 - Simpson Sand - 4548' to 4552'

4548'-4552'

16 Kone shots

Swabbed through 5 1/2" casing 3 1/2 hours, 1 gallon of oil and 11 1/2 barrels of salt water per hour. On March 16, swabbed through 5 1/2" casing 7 hours, 6 gallons of oil and 10 barrels of salt water per hour. Ran 2" tubing and set Halliburton DM retainer at 4540' and cemented off perforations from 4548' to 4552' with 75 sacks of common cement, maximum TP-3800#, finished cementing 9:00 p.m. 3/16/59. Pulled 2" tubing and shut down for cement to set.

On March 18, swabbed and bailed the hole dry to top of retainer at 4540'. Drilled up retainer and drilled cement plug to 4546'SLM, and 5 1/2" casing tested dry.

Casing Perforation No. 2 - Simpson Sand - 4541' to 4545'

4541'-4545'

16 Kone shots

Bailed and tested 4 hours, 4 gallons of water per hour with good scum of oil. Bailed and tested 14 hours, 2 gallons of oil per hour with trace of water. Ran 2" tubing and set Halliburton HM packer at 4532'. Ran Halliburton Vis-O-Frac treatment as follows:

TREATMENT NO. 1 - Vis-O-Frac - 4541' to 4545'

Used 750# of sand

750 gallons of lease crude oil

131 barrels of oil to load hole and flush

Maximum TP-6500#, minimum TP-3800#

Time 30 minutes

Injection rate: 1 barrel per minute

Pulled 2" tubing and packer and swabbed through 5 1/2" casing 2 hours, 95 barrels of oil used in treating. Bailed and cleaned out frac sand to bottom, then bailed and tested 4 hours, 7 gallons of oil used in treating, no water per hour. On March 21, treated through 5 1/2" casing from 4541' to 4545' with 250 gallons of Halliburton MCA acid as follows:

TREATMENT NO. 2 - Acidized between 4541' and 4545'

Treatment put in 3/21/59 by Halliburton, using 250 gallons of acid and 120 barrels of oil.

| TIME     | CP    | TP | REMARKS           |
|----------|-------|----|-------------------|
| 12:00 n  |       |    | Start acid        |
| 12:05 pm |       |    | Acid in casing    |
| 12:25 pm | 2650# |    | Acid on bottom    |
| 12:40 pm | 850#  |    | Acid in formation |

Swabbed through 5 1/2" casing 2 hours, 120 barrels of oil used in treating, 6 barrels of acid water, and 10 barrels of salt water. Swabbed through 5 1/2" casing 3 hours, 2 barrels of oil and 36 barrels of water per hour.

Ran 2" tubing and set Halliburton DM retainer at 4531'. Cemented off perforations from 4541' to 4545' with 75 sacks of common cement, maximum TP-3100#. Finished cementing at 4:30 am 3/22/59. Pulled 2" tubing and shut down for cement to set.



On March 23, swabbed and bailed the hole dry to top of retainer at 4531'. Drilled up retainer, drilled cement plug and cleaned out to 4545' and 5 1/2" casing tested dry.

Casing Perforation No. 3 - Simpson Sand - 4541' to 4544'  
4541'-4544' 12 Kone shots

Bailed and tested 16 hours, 3/4 gallon of water with slight show of oil per hour. Plugged back with 1/4 sack of Cal-Seal from 4545' to 4543 1/2'. Ran 2" tubing and set Halliburton HM packer at 4530'. Treated through 2" tubing from 4541' to 4543 1/2' as follows:

TREATMENT NO. 3 - SAND-OIL-FRAC - 4541'-4543 1/2'

Used 50 gallons of Halliburton MCA acid  
750# of sand  
750 gallons of heavy crude oil  
140 barrels of crude oil to fill and flush  
Maximum TP-5600#, minimum TP-4100#  
Time 5 minutes  
Injection rate: 3 1/2 barrels per minute

Pulled 2" tubing and packer, swabbed through 5 1/2" casing 6 hours, 97 barrels of oil used in treating and 62 barrels of water. On March 26, swabbed through 5 1/2" casing 10 hours, 2 barrels of oil used in treating and 106 barrels of water.

Set Lane-Wells bridging plug at 4530', swabbed the hole dry and 5 1/2" casing tested dry. Plugged back with 1/2 sack of Cal-Seal from 4530' to 4523 1/2'.

Casing Perforation No. 4 - Viola Lime - 4518' to 4522'  
4518'-4522' 16 Kone shots

Bailed and tested 8 hours, 1/2 barrel of drilling mud with few spots of oil per hour. On March 27, bailed and tested 4 hours, 3/4 gallon of mud with spots of oil per hour. Treated through 5 1/2" casing from 4518' to 4522' with 250 gallons of Halliburton MCA acid as follows:

TREATMENT NO. 4 - Acidized 4518'-4522'

Treatment put in 3/27/59 by Halliburton, using 250 gallons of acid and 120 barrels of oil.

| TIME     | CP    | TP | REMARKS                     |
|----------|-------|----|-----------------------------|
| 10:45 pm |       |    | Start acid                  |
| 10:48 pm |       |    | Acid in casing, start flush |
| 11:04 pm |       |    | Acid on bottom              |
| 11:08 pm | 1700# |    | Acid in formation           |
| 11:12 pm | 1250# |    | Treatment completed         |

Swabbed through 5 1/2" casing 3 hours, 120 barrels of oil used in treating. Then swabbed 15 hours, 22 barrels of formation oil and 2 barrels of acid water with good show of gas. Ran 2" tubing and set Halliburton HM packer at 4500'. Ran Halliburton Sand-Oil-Frac as follows:

TREATMENT NO. 5 - Sand-Oil-Frac between 4518' and 4522'

Used 2000# of sand  
2000 gallons of heavy crude oil  
138 barrels regular crude to fill and flush  
Maximum TP-5200#, minimum TP-3800#  
Time 9 minutes  
Injection rate: 1.8 barrels per minute

Pulled 2" tubing and packer and swabbed through 5 1/2" casing 10 hours, 186 barrels of oil used in treating and 10 barrels of water. Then swabbed 1/2 hour, 3 barrels of formation oil and 1 barrel of water. On March 29, swabbed through 5 1/2" casing 7 hours, 40 barrels of formation oil and 3 barrels of water.

Casing Perforation No. 5 - Viola Lime - 4501' to 4518'  
4501'-4518' 102 holes

Swabbed through 5 1/2" casing 8 hours, 58 barrels of formation oil and 2 barrels of water. Loaded hole with 116 barrels of oil and plugged back from 4523 1/2' to 4517' with sand. Plugged back from 4517' to 4513' with 1/4 sack of Cal-Seal. Ran 2" tubing and set Halliburton HM packer at 4486'. Ran Halliburton Sand-Oil-Frac treatment as follows:

TREATMENT NO. 6 - Sand-Oil-Frac between 4501' and 4513'

Used 5000# of sand  
3750 gallons of heavy crude oil  
60 barrels of oil to fill and flush  
Maximum TP-4900#, minimum TP-3900#  
Time 14 minutes  
Injection rate: 6 barrels per minute



Let set 4 hours for pressure drop, then flowed through 2" tubing with 1" choke 3 hours, 16 barrels of oil used in treating and well quit flowing.

Pulled 2" tubing and packer, bailed and cleaned out to 4523½". Ran 2" tubing to 4520", then swabbed through 2" tubing 22 hours, 248 barrels of oil used in treating and 10 barrels of water, gas estimated 200 MCF. On April 1, pulled 2" tubing, ran bailer and found no sand in hole. Swabbed through 5½" casing 5 hours, 40 barrels of formation oil and 1 barrel of water, gas gauged 240 MCF. Ran 2" tubing and rods and moved out cable tools. Installed surface pumping equipment and lease tank battery.

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On April 5, POB 12 hours, 40 barrels of oil and 1 barrel of water. On April 6, POB 19 hours, 52 barrels of oil and 1½ barrels of water. On April 7, POB 24 hours, 90 barrels of oil and 1½ barrels of water. On April 8, POB 24 hours, 77 barrels of oil and 1 barrel of water. On April 10, POB 8 hours on physical potential test, 29.29 barrels of oil with trace of water, to establish 24 hour State Corporation Commission potential of 88 barrels. Allowable 37 barrels per day for the remainder of April, 1959.

PLUGGED BACK TOTAL DEPTH 4523½"

| DEPTH | SLOPE TEST DATA    |         |
|-------|--------------------|---------|
|       | ANGLE OF DEPLETION |         |
| 375'  | 0                  | Degrees |
| 700'  | 0                  | "       |
| 950'  | 0                  | "       |
| 1200' | 0                  | "       |
| 1500' | 0                  | "       |
| 2350' | 3/4                | "       |
| 2900' | 0                  | "       |
| 3400' | 0                  | "       |
| 3915' | 1                  | "       |
| 4260' | 1/2                | "       |

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STATE CORPORATION COMMISSION  
MAY 1 1969  
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Wichita, Kansas

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