

IN REPLY REFER TO:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
P. O. Box 245  
Farmington, New Mexico

January 19, 1956

Standard Oil & Gas Company  
Box 487  
Farmington, New Mexico

Re: Jicarilla Apache  
Contract 114, Tract 243

Gentlemen:

Receipt is acknowledged of your "Notice of Intention to Drill" dated January 17, 1956 covering your well No. 7 Jicarilla Contract 114 in ~~Sec. 9, T. 25 N., R. 5 W., N. M. P. M., Rio~~ Arriba County, New Mexico, South Blanco-Pictured Cliffs ext.

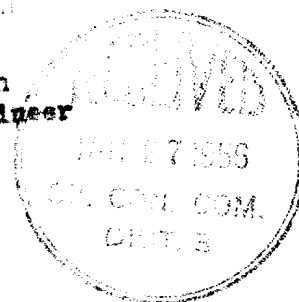
Your proposed work is hereby approved subject to compliance with the provisions of the "Oil and Gas Operating Regulations" revised May 25, 1948, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.
2. Furnish copies of all logs.

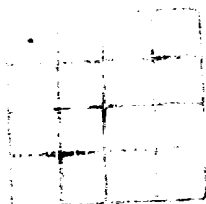
Very truly yours,

E. T. McGrath  
District Engineer

PMcGrath:ac  
cc: Jicarilla Agency



*Approved*  
*1/22/56*



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency .....

Jicarilla Apache

Allottee .....

Lease No. Jicarilla Contract 146  
Tract 243

## SUNDRY NOTICES AND REPORTS ON WELLS

|                                                    |                                     |                                                 |  |
|----------------------------------------------------|-------------------------------------|-------------------------------------------------|--|
| NOTICE OF INTENTION TO DRILL.....                  | <input checked="" type="checkbox"/> | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        |  |
| NOTICE OF INTENTION TO CHANGE PLANS.....           |                                     | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |  |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....    |                                     | SUBSEQUENT REPORT OF ALTERING CASING.....       |  |
| NOTICE OF INTENTION TO REDRILL OR REPAIR WELL..... |                                     | SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....  |  |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....       |                                     | SUBSEQUENT REPORT OF ABANDONMENT.....           |  |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....   |                                     | SUPPLEMENTARY WELL HISTORY.....                 |  |
| NOTICE OF INTENTION TO ABANDON WELL.....           |                                     |                                                 |  |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

COPY

Farmington, New Mexico January 17, 1956

Jicarilla Contract 146  
Well No. 7 is located 1150 ft. from N line and 850 ft. from W line of sec. 9NW/4 Sec. 9  
(1/4 Sec. and Sec. No.)T-25-N R-5-W  
(Twp.) (Range)NMPM  
(Meridian)South Blanco-Pictured ~~Cliffs~~ Rio Arriba  
(Field) (County or Subdivision)New Mexico  
(State or Territory)The elevation of the ~~ground level~~ above sea level is 6748 ft.  
ground level

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill the well to approximately 2990'. Rotary tools will be used to total depth. Anticipate production in the Pictured Cliffs formation. Stimulation will be with sand and water.

The following casing program is proposed:

| Size   | Depth | Cement | Remarks                   |
|--------|-------|--------|---------------------------|
| 8-5/8" | 150'  | 75     | 200% of theoretical fill. |
| 5-1/2" | 2990' | 100    | 100% of theoretical fill. |

Copies of location plat are attached. A copy of any survey taken will be submitted upon completion of well.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company STANDARD OIL & GAS COMPANYAddress 437  
FARMINGTON, NEW MEXICOBy H. O. Spurgeon  
Title Field Superintendent

COPY

COMPANY Stanolind Oil and Gas Company

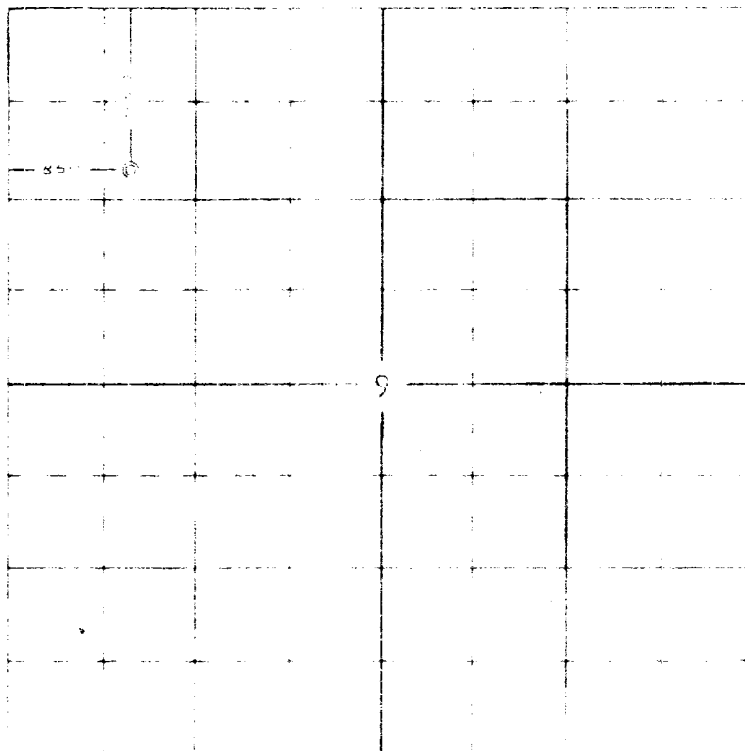
Well Name & No. Huerfano Contract No. 116 Well No. 7

Location 1150' from the North line and 850' from the West line.

Being in LN/WM

Sec. 9, T25 N., R. 5 W., N.M.P.M. Alto Arriba County, New Mexico.

Ground Elevation 6748, ungraded.



Surveyed December 22

55

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Ernest A. Echaback  
Ernest A. Echaback  
Registered Land Surveyor  
N. M. Reg. #1515

Subscribed

By Stanolind Oil and Gas Company  
Huerfano, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA  
EXCEPT BARKER DOME STORAGE AREA)

Pool South Elmore-Pictured Cliffs Formation Pictured Cliffs County Elm  
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed 8-7-57  
Operator PACIFIC NORTHWEST PIPELINE CORP. Lease Alamogordo 246 Well No. 7  
Unit 8 Sec. 9 Twp. 38N Rge. 9W Pay Zone: From 2945 To 3000  
Casing: OD 26 WT. 24 Set At 2145 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 2077  
Produced Through: Casing        Tubing X Gas Gravity: Measured 0.609 Estimated         
Date of Flow Test: From 6-2-57 To 7-6-57 \* Date S.I.P. Measured 8-17-57  
Meter Run Size 4" Orifice Size 1.375 Type Chart Sp. 21 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt)        psig + 12 =        psia (a)  
Flowing tubing pressure (Dwt)        psig + 12 =        psia (b)  
Flowing meter pressure (Dwt)        psig + 12 =        psia (c)  
Flowing meter pressure (meter reading when Dwt. measurement taken:  
Normal chart reading        psig + 12 =        psia (d)  
Square root chart reading (        )<sup>2</sup> x spring constant        =        psia (d)  
Meter error (c) - (d) or (d) - (c)        ±        =        psi (e)  
Friction loss, Flowing column to meter:  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing        =        psi (f)  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading        psig + 12 =        psia (g)  
Square root chart average reading ( 6.37 )<sup>2</sup> x sp. const. 25 = 624 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e)        = 624 psia (h)  
P<sub>t</sub> = (h) + (f)        = 624 psia (i)  
Wellhead casing shut-in pressure (Dwt)        psig + 12 =        psia (j)  
Wellhead tubing shut-in pressure (Dwt) 2024 psig + 12 = 2036 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through        = 2036 psia (l)  
Flowing Temp. (Meter Run)        °F + 460        =        ° Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l)        = 1018 psia (n)

Q =        X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{      }}{\text{      }} = \text{      } \right) = \text{      }$   
(Integrated)



DELIVERABILITY CALCULATION

D = Q 2130  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{709.907}{621.307} \right]^n$  1.342 = 135 MCF/da.

SUMMARY

P<sub>c</sub> = 2036 psia  
Q = 213 Mcf/day  
P<sub>w</sub> = 624 psia  
P<sub>d</sub> = 1018 psia  
D = 135 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORPORATION  
By H. H. Smith, Jr.  
Title Field Engineer  
Witnessed by         
Company       

- \* This is date of completion test.
- \* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

| GL   | (1-e <sup>-s</sup> ) | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 2024 | .337                 | 2.018                           | .263                                                                   | 706.906                                   | 707.277                                      | 624            |

\*Furnished by pipeline company.

Notes: INITIAL DELIVERABILITY TEST is being filed on the time entered Form C-122-A due

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco-Cliff Formation Cliff County Hidalgo  
Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 4-21-56  
Company STANDARD OIL & CO. COMPANY Lease Jicarilla Contract 146 Well No. 7  
Unit D Sec. 9 Twp. 25N Rge. 5E Purchaser \_\_\_\_\_  
Casing 5-1/2" Wt. 14 I.D. \_\_\_\_\_ Set at 3045 Perf. 2977-2985 ~~28~~ 2995-3003  
Tubing 3-8" Wt. 4.7 I.D. \_\_\_\_\_ Set at 2957 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 2977 To 3003 L 2977 xG 0.65 est. -GL 1935 Bar.Press. 11.5  
Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Single - Gas  
Date of Completion: 4-21-56 Packer \_\_\_\_\_ Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. 98° F.

## OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps \_\_\_\_\_

| No. | Flow Data            |                        |             |                      |           | Tubing Data |           | Casing Data |           | Duration of Flow Hr. |
|-----|----------------------|------------------------|-------------|----------------------|-----------|-------------|-----------|-------------|-----------|----------------------|
|     | (Prover) (Line) Size | (Choke) (Orifice) Size | Press. psig | Diff. h <sub>w</sub> | Temp. °F. | Press. psig | Temp. °F. | Press. psig | Temp. °F. |                      |
| 1.  |                      | <u>3/8</u>             | <u>136</u>  |                      |           | <u>963</u>  |           | <u>963</u>  |           |                      |
| 2.  |                      |                        |             |                      |           | <u>136</u>  |           | <u>976</u>  |           | <u>3 Hrs.</u>        |
| 3.  |                      |                        |             |                      |           |             |           |             |           |                      |
| 4.  |                      |                        |             |                      |           |             |           |             |           |                      |
| 5.  |                      |                        |             |                      |           |             |           |             |           |                      |

## FLOW CALCULATIONS

| No. | Coefficient (24-Hour) | $\sqrt{h_{wpf}}$ | Pressure psia | Flow Temp. Factor F <sub>t</sub> | Gravity Factor F <sub>g</sub> | Compress. Factor F <sub>pv</sub> | Rate of Flow Q-MCFPD @ 15.025 psia |
|-----|-----------------------|------------------|---------------|----------------------------------|-------------------------------|----------------------------------|------------------------------------|
| 1.  | <u>12.3690</u>        |                  | <u>146</u>    |                                  | <u>0.9608</u>                 | <u>1.014</u>                     | <u>1799</u>                        |
| 2.  |                       |                  |               |                                  |                               |                                  |                                    |
| 3.  |                       |                  |               |                                  |                               |                                  |                                    |
| 4.  |                       |                  |               |                                  |                               |                                  |                                    |
| 5.  |                       |                  |               |                                  |                               |                                  |                                    |

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)

Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid 0.65 est.  
P<sub>c</sub> 975 P<sub>c</sub> 950.6

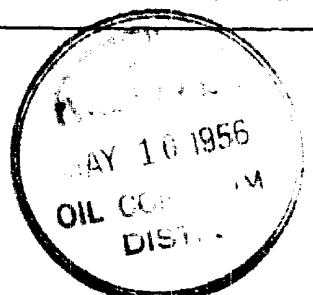
| No. | P <sub>w</sub> P <sub>t</sub> (psia) | P <sub>t</sub> <sup>2</sup> | F <sub>c</sub> Q | (F <sub>c</sub> Q) <sup>2</sup> | (F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> ) | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup> | Cal. P <sub>w</sub> | P <sub>w</sub> P <sub>c</sub> |
|-----|--------------------------------------|-----------------------------|------------------|---------------------------------|------------------------------------------------------|-----------------------------|----------------------------------------------------------|---------------------|-------------------------------|
| 1.  |                                      |                             |                  |                                 |                                                      | <u>150.5</u>                | <u>800</u>                                               |                     | <u>0.397</u>                  |
| 2.  |                                      |                             |                  |                                 |                                                      |                             |                                                          |                     |                               |
| 3.  |                                      |                             |                  |                                 |                                                      |                             |                                                          |                     |                               |
| 4.  |                                      |                             |                  |                                 |                                                      |                             |                                                          |                     |                               |
| 5.  |                                      |                             |                  |                                 |                                                      |                             |                                                          |                     |                               |

Absolute Potential: 2036 MCFPD; n 0.85COMPANY STANDARD OIL & CO. COMPANYADDRESS Box 487, Farmington, New MexicoAGENT and TITLE W. H. Bauer, Jr., Field Engineer

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

REMARKS \_\_\_\_\_



CONSERVATION COMMISSION

Form 331b  
(April 1962)

JUN 22 1956

JERRY W. LONG  
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency \_\_\_\_\_

Jicarilla Apache

Allottee \_\_\_\_\_

Lease No. Jicarilla Contract 146  
Tract 243

SUNDRY NOTICES AND REPORTS ON WELLS

|                                               |                                            |   |
|-----------------------------------------------|--------------------------------------------|---|
| NOTICE OF INTENTION TO DRILL                  | SUBSEQUENT REPORT OF WATER SHUT-OFF        | X |
| NOTICE OF INTENTION TO CHANGE PLANS           | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING |   |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF    | SUBSEQUENT REPORT OF ALTERING CASING       |   |
| NOTICE OF INTENTION TO REDRILL OR REPAIR WELL | SUBSEQUENT REPORT OF REDRILLING OR REPAIR  |   |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE       | SUBSEQUENT REPORT OF ABANDONMENT           |   |
| NOTICE OF INTENTION TO PULL OR ALTER CASING   | SUPPLEMENTARY WELL HISTORY                 | ✓ |
| NOTICE OF INTENTION TO ABANDON WELL           |                                            |   |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Farmington, New Mexico May 29, 1956

Jicarilla Contract 146  
Well No. 7 is located 1150 ft. from [N] line and 850 ft. from [W] line of sec. 9

NW/4 of Section 9 T-25-N T-5-W NMPH  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
South Blanco-Pictured Rio Arriba New Mexico  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ above sea level is 6748 ft.  
ground level

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate missing jobs, cementing points, and all other important proposed work)

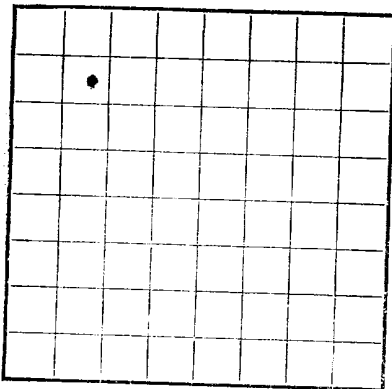
This well was perforated from 2977 feet to 2985 feet and 2995 feet to 3003 feet with four jet shots per foot and 3003 feet to 3017 feet with two jet shots per foot.

The well was then sand-water fracked with 25,000 gallons water and 30,000 pounds sand. Formation broke at 3000 pounds. Injection rate was 52.5 barrels per minute. Test after frac, 2153 MCFPD.

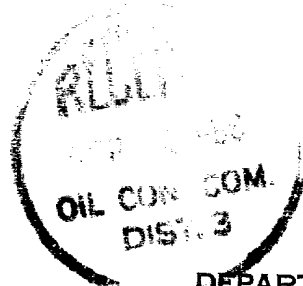
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company STANOLIND OIL & GAS COMPANY  
Address P. O. BOX 487  
FARMINGTON, NEW MEXICO

By *L. J. Jones*  
Title Field Superintendent



LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Jicarilla Apache**

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

**Jicarilla Contract 146****Tract 243**

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

**RECEIVED**  
JUL 19 1956  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICOCompany **STANOLIND OIL AND GAS COMPANY**

Address

Lessor or Tract **Jicarilla Contract 146**Field **South Blanco-****Pictured Cliffs**State **New Mexico**Well No. **7** Sec. **9** T. **25N** R. **5W** Meridian **NPM**County **Rio Arriba**Location **1150** ft. **XX** of **N** Line and **850** ft. **XX** of **W** Line of **Section 9**Elevation **6748** (GL)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

*Go. Lawry*Date **July 17, 1956**Title **Field Superintendent**

The summary on this page is for the condition of the well at above date.

Commenced drilling **March 6,** 19**56** Finished drilling **April 10,** 19**56**

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **2965** to **3020** No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

| Size casing   | Weight per foot | Threads per inch | Make            | Amount       | Kind of shoe   | Cut and pulled from | Perforated |     | Purpose           |
|---------------|-----------------|------------------|-----------------|--------------|----------------|---------------------|------------|-----|-------------------|
|               |                 |                  |                 |              |                |                     | From—      | To— |                   |
| <b>8-5/8"</b> | <b>23.75</b>    | <b>31</b>        | <b>National</b> | <b>158'</b>  | <b>Outside</b> |                     |            |     | <b>Surface</b>    |
| <b>5-1/2"</b> | <b>21.5</b>     | <b>26</b>        | <b>Crow</b>     | <b>3045'</b> | <b>Ball</b>    |                     |            |     | <b>Oil String</b> |

## MUDDING AND CEMENTING RECORD

| Size casing   | Where set    | Number sacks of cement | Method used       | Mud gravity | Amount of mud used |
|---------------|--------------|------------------------|-------------------|-------------|--------------------|
| <b>8-5/8"</b> | <b>158'</b>  | <b>100</b>             | <b>Circulated</b> |             |                    |
| <b>5-1/2"</b> | <b>3045'</b> | <b>100</b>             | <b>Circulated</b> |             |                    |

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

| Size | Shell used | Explosive used | Quantity | Date | Depth shot | Depth cleaned out |
|------|------------|----------------|----------|------|------------|-------------------|
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |
|      |            |                |          |      |            |                   |

## TOOLS USED

Rotary tools were used from **0** feet to **3045** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## DATES

**April 13,** 19**56** Put to producing **Shut-in**, 19\_\_\_\_

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment. Gravity, °Bé. \_\_\_\_\_

If gas well, cu. ft. per 24 hours **2,153,000** Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_

Rock pressure, lbs. per sq. in. **978 psig**

## EMPLOYEES

**Bill Padgett**, Driller **F. L. Jones**, Driller  
**Oval Cook**, Driller **Jack Dean**, Driller

## FORMATION RECORD

| FROM—       | TO—         | TOTAL FEET  | FORMATION                     |
|-------------|-------------|-------------|-------------------------------|
| <b>0</b>    | <b>2580</b> | <b>2580</b> | <b>Surface sand and shale</b> |
| <b>2580</b> | <b>2965</b> | <b>385</b>  | <b>Kirtland-Fruitland</b>     |
| <b>2965</b> | <b>3030</b> | <b>65</b>   | <b>Pictured Cliffs</b>        |

[OVER]



LOG OF OIL OR GAS WELL  
FARMINGTON, NEW MEXICO  
U.S. GEOLOGICAL SURVEY  
JUL 19 1956  
RECEIVED  
GEOLOGICAL SURVEY  
DEPARTMENT OF THE INTERIOR  
UNITED STATES

RECEIVED  
OIL CON. COM.  
DIST. 3

[illegible]

The information given herewith is a complete and correct record of the well and all work done thereon as far as can be determined from all available records.

On March 6, 1956, this well was spudded. On March 7, 1956, 6-5/8" casing was landed at 156 feet and cemented with 100 sacks. After waiting on cement for 27 days, casing and water shut off were tested with 500 pounds for 30 minutes with no drop in pressure.

On April 10, 1956, 5-1/2" casing was landed at 3045 feet and cemented with 100 sacks cement. After waiting on cement for 24 hours, casing and water shut off were tested with 500 pounds for 30 minutes with no drop in pressure. Completion operations were resumed.

On April 11, 1956, the well was perforated from 2977 to 2985 feet and 2995 to 3003 feet with four jet shots per foot and 3003 to 3017 feet with two jet shots per foot. Well was then sandwater flooded with 25,000 gallons water and 30,000 pounds sand. Formation broke at 3000 pounds. Injection rate was 52.5 barrels per minute. Test after time was 2,153 MCF per day.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and if any casing was "struck", or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shot. If pipes or pieces were put in to test for water, state kind of material used, position, and results of pumping or bailing.

## HISTORY OF OIL OR GAS WELL

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]

Form 8-381b  
(April 1962)

**APPROVED**

(SUBMIT IN TRIPLICATE)

Indian Agency \_\_\_\_\_

**Jicarilla Apache**

UNITED STATES

Allottee \_\_\_\_\_

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Lease No. **Jicarilla Contract 146**  
**Tract 243**

## SUNDRY NOTICES AND REPORTS ON WELLS

|                                                    |                                                 |          |
|----------------------------------------------------|-------------------------------------------------|----------|
| NOTICE OF INTENTION TO DRILL.....                  | SUBSEQUENT REPORT OF WATER SHUT-OFF.....        | <b>X</b> |
| NOTICE OF INTENTION TO CHANGE PLANS.....           | SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING..... |          |
| NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....    | SUBSEQUENT REPORT OF ALTERING CASING.....       |          |
| NOTICE OF INTENTION TO REDRILL OR REPAIR WELL..... | SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....  |          |
| NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....       | SUBSEQUENT REPORT OF ABANDONMENT.....           |          |
| NOTICE OF INTENTION TO PULL OR ALTER CASING.....   | SUPPLEMENTARY WELL HISTORY.....                 |          |
| NOTICE OF INTENTION TO ABANDON WELL.....           |                                                 |          |

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

**Farmington, New Mexico** **May 29**, 19 **56**

**Jicarilla Contract 146**

Well No. **7** is located **1150** ft. from **N** line and **850** ft. from **XX** line of sec. **9**

**NW 1/4 of Section 9**  
(1/4 Sec. and Sec. No.)

**T-25-N**  
(Twp.)

**R-5-W**  
(Range)

**NNPM**  
(Meridian)

**South Blanco-Pictured**  
(Field) **Cliffs**

**Rio Arriba**  
(County or Subdivision)

**New Mexico**  
(State or Territory)

The elevation of the ~~surface~~ **ground level** above sea level is **6748** ft.

### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On March 6, 1956, this well was spudded, and on March 7, 1956, 8-5/8" casing was landed at 158 feet and cemented with 100 sacks. After waiting on cement for 27 days, casing and water shut off were tested with 500 pounds for 30 minutes with no drop in pressure.

On April 10, 1956, 5 1/2" casing was landed at 3045 feet and cemented with 100 sacks cement. After waiting on cement for 24 hours, casing and water shut off were tested with 500 pounds for 30 minutes with no drop in pressure. Completion operations were resumed.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **STANOLIND OIL & GAS COMPANY**

Address **P. O. BOX 487**  
**FARMINGTON, NEW MEXICO**

By **L. O. Spurr**  
Title **Field Superintendent**

NEW MEXICO  
OIL CONSERVATION COMMISSION

Class We 210

APPROVED BY

Operator                      Lease 146 Well No. 7

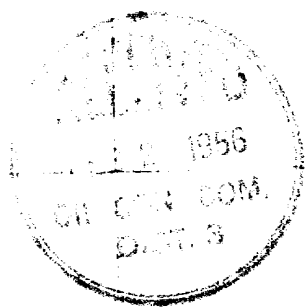
Name of Producing Formation                     

No. Acres I treated to my Well             

Acres owned by me at the time of ownership             

24 7 SECTION              TOWNSHIP              RANGE             

|                                        |  |  |
|----------------------------------------|--|--|
| <i>Indian Land</i><br><i>160 acres</i> |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |
|                                        |  |  |



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

Name                       
Position                       
Representing                       
Address                     

DATE

|                             |         |
|-----------------------------|---------|
| OIL CONSERVATION COMMISSION |         |
| ALTEC DISTRICT OFFICE       |         |
| No. Copies Received         | 3       |
| DISTRIBUTION                |         |
|                             | 100-245 |
| Operator                    | 1       |
| Santa Fe                    | 1       |
| Production Office           |         |
| State Land Office           |         |
| U. S. G. B.                 |         |
| Transporter                 |         |
| File                        | 1 ✓     |

NEW MEXICO OIL CONSERVATION COMMISSION  
MISCELLANEOUS REPORT ON WELLS  
(Submit to appropriate district office as per Commission Rule 1106)

COMPANY Pan American Petroleum Corporation, Box 487, Farmington, New Mexico

LEASE Jicarilla Contract 116 7 UND D S 9 T 25N R 5W

DATE WORK PERFORMED February 1, 1957 POOL South Blanco-Pictured Cliffs

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off

☐ Beginning Drilling Operations

☐ Remedial Work

☐ Plugging

☒ Other See below.

Detailed account of work done, nature and quantity of materials used and results obtained.

Change in operating name from "Stanolind Oil and Gas Company" to "Pan American Petroleum Corporation".

FILL IN BELOW FOR REMEDIAL WORK REPORT ONLY

Original Well Data:

DF Elev.            TD            PWD            Cased            Compl Date           

Tbng. Dia            Tbng Depth            Casing Log            Oil String Depth           

Perf Interval (s)           

Open Hole Interval            Perforation Interval (s)           

RESULTS OF WORKOVER:            BEFORE            AFTER           

Date of Test           

Oil Production, bbls. per day           

Gas Production, Mcf per day           

Water Production, bbls. per day           

Gas-Oil Ratio, cu. ft. per bbl           

Gas Well Potential, Mcf per day           

Witnessed by           

           (Company)

OIL CONSERVATION COMMISSION

Name Original Signed Emery C. Arnold

Title Oil and Gas Inspector Dist. #3.

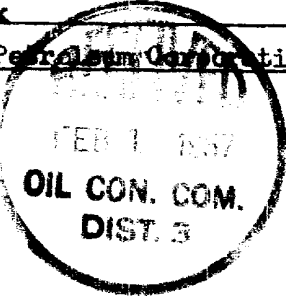
Date FEB 1 1957

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

NAME SCOTT

Position Field Clerk

Company Pan American Petroleum Corporation



NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Form C-110  
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator PAN AMERICAN PETROLEUM CORPORATION Lease JICARILLA CONTRACT 146

Well No. 7 Unit Letter D S 9 T 25N R 5W Pool South Blanco-Pictured Cliffs

County Rio Arriba Kind of Lease (State, Fed. or Patented) Federal

If well produces oil or condensate, give location of tanks: Unit S T R

Authorized Transporter of Oil or Condensate \_\_\_\_\_

Address \_\_\_\_\_

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Pacific Northwest Pipeline Corporation

Address Farmington, New Mexico

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well (X)

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ( ) Other ( )

Remarks: \_\_\_\_\_ (Give explanation below)

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 22 day of February 19 57

ORIGINAL SIGNED BY

By D. J. SCOTT

Approved MAR 8 1957 19

Title Field Clerk

OIL CONSERVATION COMMISSION

PAN AMERICAN PETROLEUM CORPORATION

Company 1401487

Address FARMINGTON, NEW MEXICO

By Original Signed By  
A. R. KENDRICK

Title PETROLEUM ENGINEER DIST. NO. 3



370, 240-71  
Pan American Petro. Corp.  
has changed its name to  
AMOCO PROD. CO.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-110

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

(Form C-104)  
(Revised 7/1/52)

REQUEST FOR ~~oil~~ - (GAS) ALLOWABLE

New Well  
~~Reopening~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico February 22, 1957  
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

PAN AMERICAN PETROLEUM CORPORATION Jicarilla  
(Company or Operator) Contract 146 Well No. 7, in NW 1/4 NW 1/4,  
(Lease)

D, Sec. 9, T. 25N, R. 5W, NMPM, South Blanco-Pictured Cliffs Pool  
Unit Letter

Rio Arriba County. Date Spudded. 3/6/56, Date Completed. 4/10/56

Please indicate location:

|   |   |   |   |
|---|---|---|---|
| D | C | B | A |
| X |   |   |   |
| E | F | G | H |
|   |   |   |   |
| L | K | J | I |
|   |   |   |   |
| M | N | O | P |
|   |   |   |   |

Elevation. 6748 Total Depth. 3045, P.B. 3035

Top oil/gas pay. 2967 Name of Prod. Form. Pictured Cliffs

Casing Perforations: See below or

Depth to Casing shoe of Prod. String. 3045

Natural Prod. Test. BOPD

based on. bbls. Oil in. Hrs. Mins.

Test after acid or shot. BOPD

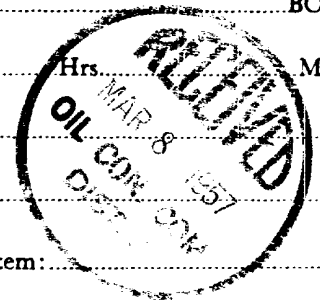
Based on. bbls. Oil in. Hrs. Mins.

Gas Well Potential. 213 2153 MCFPD

Size choke in inches. 2" outlet

Date first oil run to tanks or gas to Transmission system:

Transporter taking Oil or Gas: Pacific Northwest Pipeline Corporation



Section 9

Casing and Cementing Record

Size Feet Sax

|        |      |     |
|--------|------|-----|
| 8-5/8" | 158  | 100 |
| 5-1/2" | 3045 | 100 |
| 2-3/8" |      |     |
|        |      |     |

Remarks: Includes 3045' of 5 1/2" OD 5.012" ID 148B Casing; 2957' of 2-3/8" OD 1.995" ID 4.7LB Tubing. Well was fracked (thru perforations 2977-2985, 2995-3003, w/4 shots/foot, 3003-3017 w/2 shots/foot with 25,000 gallons water & 30,000 LB sand. Injection rate 52.5 bbl/min. Test after frac 2153 MCFPD.

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

Approved. MAR 8 1957, 19 PAN AMERICAN PETROLEUM CORPORATION  
(Company or Operator)

OIL CONSERVATION COMMISSION

(Original Signed By)

By: A. J. K. S. S.

Title PETROLEUM ENGINEER DIST. NO. 3

By: (Signature)

Title. Field Clerk

Send Communications regarding well to:

Name. PAN AMERICAN PETROLEUM CORPORATION  
P.O. BOX 487

Address. FARMINGTON, NEW MEXICO

Form 3160-5  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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.)

RECEIVED

UL 22 1985

1. WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Amoco Production Co.

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

3. ADDRESS OF OPERATOR

501 Airport Drive, Farmington, N M 87401

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

1150' FNL x 850' FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, CR, etc.)

6748' GR

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contract 146

6. IF INDIAN, ALIQUOT OR TRACT NAME

Jicarilla Apache

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla Contract 146

9. WELL NO.

7

10. FIELD AND POOL, OR WILDCAT

So Blanco Pictured Cliff

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

NW/NW Sec 9, T25N, R5W

12. COUNTY OR PARISH

13. STATE

Rio Arriba NM

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

NOTICE OF INTENTION TO:

1. STOP WATER SHUT-OFF

2. FRACTURE TREAT

3. SHOOT OR ACIDIZE

4. REPAIR WELL

5. PULL OR ALTER CASING

6. MULTIPLE COMPLETE

7. ABANDON\*

8. CHANGE PLANN

SUBSEQUENT REPORT OF:

9. WATER SHUT-OFF

10. FRACTURE TREATMENT

11. SHOOTING OR ACIDIZING

12. OTHER

13. REPAIRING WELL

14. ALTERING CASING

15. ABANDONMENT\*

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

\*If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.\*

Moved in and rigged up service unit on 6-25-85. Total depth of the well 3045' and plugback depth is 3035'. Cleaned out sand fill with nitrogen foam. Replaced 63 joints of 2-3/8" tubing. Relanded tubing and released the rig on 6-27-85.

RECEIVED  
AUG 2 - 1985  
OIL CON. DIV.  
DIST. 3

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

SIGNED

*[Signature]*

TITLE District Adm Supervisor

ACCEPTED FOR RECORD  
DATE 7-17-85

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

FARMINGTON RESOURCE AREA

BY

\*See Instructions on Reverse Side

NMOCC

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



# OIL CONSERVATION DIVISION

Energy, Minerals and Natural Resources Department

## REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240  
DISTRICT II  
P.O. Drawer BD, Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

Santa Fe, New Mexico 87504-2088  
P.O. Box 2088

|                                                                                                    |  |                                                                                                                                                                    |  |                                                                                                                                                                                    |  |                                                 |  |           |  |
|----------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|-----------|--|
| Operator<br>AMOCO PRODUCTION COMPANY                                                               |  | Well No.<br>7                                                                                                                                                      |  | Pool Name, including Formation<br>BLANCO P.C. SOUTH (GAS)                                                                                                                          |  | Kind of Lease<br>State, Federal or Fee          |  | Lease No. |  |
| Address<br>P.O. Box 800, DENVER, COLORADO 80201                                                    |  | Reasons for Filing (Check proper box)<br>New Well <input type="checkbox"/><br>Recompletion <input type="checkbox"/><br>Change in Operator <input type="checkbox"/> |  | Change in Transport of:<br>Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/><br>Casinghead Gas <input type="checkbox"/> Condensate <input checked="" type="checkbox"/> |  | Other (Please explain) <input type="checkbox"/> |  |           |  |
| Location<br>Unit Letter D<br>1150<br>FNL<br>Line and 850<br>Feet From The FWL<br>County Rio Arriba |  | Section 09<br>Township 25N<br>Range 5W<br>NMPM                                                                                                                     |  | Line<br>FNL<br>850<br>Feet From The FWL<br>County Rio Arriba                                                                                                                       |  |                                                 |  |           |  |

### II. DESCRIPTION OF WELL AND LEASE

### III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

|                                                                                                                                                                                             |  |                                                                                                                                                                                                                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Name of Authorized Transporter of Oil<br>GARY WILLIAMS ENERGY CORPORATION<br>Address (Give address to which approved copy of this form is to be sent)<br>P.O. Box 159, BLOOMFIELD, NM 87413 |  | Name of Authorized Transporter of Casinghead Gas<br>NORTHWEST PIPELINE CORPORATION<br>Address (Give address to which approved copy of this form is to be sent)<br>P.O. Box 8900, SALT LAKE CITY, UT 84108-0899 |  |
| <input type="checkbox"/> or Condensate<br><input type="checkbox"/> or Dry Gas<br><input checked="" type="checkbox"/> or Casinghead Gas                                                      |  | <input type="checkbox"/> or Condensate<br><input type="checkbox"/> or Dry Gas<br><input checked="" type="checkbox"/> or Casinghead Gas                                                                         |  |

### IV. COMPLETION DATA

|                                                                                                                                                                                                                                                                                                                                   |  |                             |  |                            |  |              |  |                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------|--|----------------------------|--|--------------|--|-------------------|--|
| Designate Type of Completion - (X)<br>Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> New Well <input type="checkbox"/> Workover <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Same Resv <input type="checkbox"/> Diff Resv <input type="checkbox"/> |  | Date Spudded                |  | Date Compl. Ready to Prod. |  | Total Depth  |  | P.B.T.D.          |  |
| Elevations (D.F., R.K.B., R.T., C.K., etc.)                                                                                                                                                                                                                                                                                       |  | Name of Producing Formation |  | Top Oil/Gas Pay            |  | Tubing Depth |  | Depth Casing Shoe |  |
| HOLE SIZE                                                                                                                                                                                                                                                                                                                         |  | CASING & TUBING SIZE        |  | DEPTH SET                  |  | SACKS CEMENT |  |                   |  |

### V. TEST DATA AND REQUEST FOR ALLOWABLE

|                                |  |                |  |                 |  |                                               |  |            |  |
|--------------------------------|--|----------------|--|-----------------|--|-----------------------------------------------|--|------------|--|
| Date First New Oil Run To Tank |  | Length of Test |  | Tubing Pressure |  | Casing Pressure                               |  | Choke Size |  |
| Actual Prod. During Test       |  | Oil - Bbls     |  | Water - Bbls    |  | Producing Method (Flow, pump, gas lift, etc.) |  |            |  |

### GAS WELL

|                                  |  |                           |  |                      |  |                           |  |               |  |
|----------------------------------|--|---------------------------|--|----------------------|--|---------------------------|--|---------------|--|
| Actual Prod. Test - MCF/D        |  | Length of Test            |  | Bbls. Condensate/MCF |  | Casing Pressure (Shut-in) |  | Oil CON. DIV. |  |
| Sealing Method (Pilot, back pr.) |  | Tubing Pressure (Shut-in) |  | Bbls. Condensate/MCF |  | Casing Pressure (Shut-in) |  | Oil CON. DIV. |  |

### VI. OPERATOR CERTIFICATE OF COMPLIANCE

|                                                                                                                                                                                                            |  |                                                      |  |                             |  |                           |  |                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------|--|-----------------------------|--|---------------------------|--|-------------------------------|--|
| I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. |  | Signature<br>Doug W. Whaley, Staff Admin. Supervisor |  | Printed Name                |  | Date<br>June 25, 1990     |  | Telephone No.<br>303-830-4280 |  |
| By<br>SUPERVISOR DISTRICT #3                                                                                                                                                                               |  | Title                                                |  | Date Approved<br>JUL 2 1990 |  | Oil CONSERVATION DIVISION |  |                               |  |

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filled for each pool in multiply completed wells.