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NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104  
Supersedes Old C-101 and C-1  
Effective 1-1-65

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SEP 12 1980

O. C. D.  
ARTESIA, OFFICE

I.

|                                                                                                                                |                                          |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Operator<br>Delta Drilling Company                                                                                             |                                          |
| Address<br>P. O. Box 3467 Midland, Texas 79702                                                                                 |                                          |
| Reason(s) for filing (Check proper box)                                                                                        |                                          |
| New Well <input checked="" type="checkbox"/>                                                                                   | Change in Transporter of:                |
| Recompletion <input type="checkbox"/>                                                                                          | Oil <input type="checkbox"/>             |
| Change in Ownership <input type="checkbox"/>                                                                                   | Coalinghead Gas <input type="checkbox"/> |
|                                                                                                                                | Dry Gas <input type="checkbox"/>         |
|                                                                                                                                | Condensate <input type="checkbox"/>      |
| Other (Please explain)<br>CASINGHEAD GAS MUST NOT BE<br>FLARED AFTER 11-4-80<br>UNLESS AN EXCEPTION TO RULE 306<br>IS OBTAINED |                                          |
| If change of ownership give name<br>and address of previous owner                                                              |                                          |

II. DESCRIPTION OF WELL AND LEASE

|                                                                                                                                                       |               |                                                                      |                                        |     |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------|----------------------------------------|-----|-----------|
| Lease Name<br>South Culebra Bluff Unit                                                                                                                | Well No.<br>4 | Pool Name, including Formation (Bone<br>South Culebra Bluff Springs) | Kind of Lease<br>State, Federal or Fee | Fee | Lease No. |
| Location<br>Unit Letter A : 660 Feet From The North Line and 560 Feet From The East<br>Line of Section 23 Township 23-S Range 28-E, NMPM, Eddy County |               |                                                                      |                                        |     |           |

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

|                                                                                                                                                     |                                                                                                                 |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------|
| Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/><br>The Permian Corporation         | Address (Give address to which approved copy of this form is to be sent)<br>Box 1183 Houston, Texas 77001       |             |
| Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/><br>El Paso Natural Gas Co. | Address (Give address to which approved copy of this form is to be sent)<br>P. O. Box 1492 El Paso, Texas 79778 |             |
| If well produces oil or liquids,<br>give location of tanks.                                                                                         | Unit<br>A                                                                                                       | Sec.<br>23  |
|                                                                                                                                                     | Twp.<br>23S                                                                                                     | Rge.<br>28E |
|                                                                                                                                                     | Is gas actually connected? No                                                                                   |             |

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

|                                                 |                                              |                                   |                                              |                                   |                                 |                                    |                                      |                                |
|-------------------------------------------------|----------------------------------------------|-----------------------------------|----------------------------------------------|-----------------------------------|---------------------------------|------------------------------------|--------------------------------------|--------------------------------|
| Designate Type of Completion - (X)              | Oil Well <input checked="" type="checkbox"/> | Gas Well <input type="checkbox"/> | New Well <input checked="" type="checkbox"/> | Workover <input type="checkbox"/> | Deepen <input type="checkbox"/> | Plug Back <input type="checkbox"/> | Same Res'v. <input type="checkbox"/> | Perf. <input type="checkbox"/> |
| Date Spudded<br>8/9/79                          | Date Compl. Ready to Prod.<br>9/4/80         |                                   | Total Depth<br>9802                          |                                   | P.B.T.D.<br>9510'               |                                    |                                      |                                |
| Elevations (DF, RKB, RT, GR, etc.)<br>2987.1 GR | Name of Producing Formation<br>Bone Springs  |                                   | Top Oil/Gas Pay<br>7055                      |                                   | Tubing Depth<br>7065            |                                    |                                      |                                |
| Perforations<br>7055<br>7630-9490               |                                              |                                   |                                              |                                   | Depth Casing Shoe<br>9800'      |                                    |                                      |                                |
| TUBING, CASING, AND CEMENTING RECORD            |                                              |                                   |                                              |                                   |                                 |                                    |                                      |                                |
| HOLE SIZE                                       | CASING & TUBING SIZE                         |                                   | DEPTH SET                                    |                                   | SACKS CEMENT                    |                                    |                                      |                                |
| 17-1/2                                          | 13-3/8                                       |                                   | 440                                          |                                   | 550                             |                                    |                                      |                                |
| 12-1/4                                          | 7-5/8                                        |                                   | 6185                                         |                                   | 6200                            |                                    |                                      |                                |
| 6-1/2                                           | 4-1/2                                        |                                   | 9800                                         |                                   | 475                             |                                    |                                      |                                |
|                                                 | 2-3/8                                        |                                   | 7065                                         |                                   |                                 |                                    |                                      |                                |

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

|                                           |                         |                                                       |                     |
|-------------------------------------------|-------------------------|-------------------------------------------------------|---------------------|
| Date First New Oil Run To Tanks<br>9/4/80 | Date of Test<br>9/10/80 | Producing Method (Flow, pump, gas lift, etc.)<br>Pump |                     |
| Length of Test<br>24                      | Tubing Pressure<br>0    | Casing Pressure<br>0                                  | Choke Size<br>64/64 |
| Actual Prod. During Test<br>193.64 Bbl    | Oil-Bbls.<br>74.09      | Water-Bbls.<br>119.55                                 | Gas-MCF<br>183      |

GAS WELL

|                                 |                           |                           |                       |
|---------------------------------|---------------------------|---------------------------|-----------------------|
| Actual Prod. Test-MCF/D         | Length of Test            | Bbls. Condensate/MMCF     | Gravity of Condensate |
| Testing Method (flow, back pr.) | Tubing Pressure (shut-in) | Casing Pressure (shut-in) | Choke Size            |

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Raul Madrid (Signature)  
Raul Madrid  
Staff Engineer  
9/11/80 (Date)  
9/11/80 (Date)

OIL CONSERVATION COMMISSION

SEP 16 1980

APPROVED

BY

TITLE SUPERVISOR, DISTRICT II

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or recompleted well, this form must be accompanied by a tabulation of the well tests taken on the well in accordance with RULE 111.

All portions of this form must be filled out completely for all wells, new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of conditions.

**RAILROAD COMMISSION OF TEXAS**  
**OIL AND GAS DIVISION**

Form W-12  
(1-1-71)

| INCLINATION REPORT<br>(One Copy Must Be Filed With Each Completion Report.)                |                                             |                                                        |
|--------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------|
| 1. FIELD NAME (as per RRC Records or Wildcat)<br><b>South Culebra Bluff (Bone Springs)</b> | 2. LEASE NAME<br><b>South Culebra Bluff</b> | 6. RRC District                                        |
| 3. OPERATOR<br><b>Delta Drilling Company, Production Department</b>                        |                                             | 7. RRC Lease Number.<br>(Oil completions only)         |
| 4. ADDRESS<br><b>P. O. Box 3467 Midland, Texas 79702</b>                                   |                                             | 8. Well Number<br><b>#4</b>                            |
| 5. LOCATION (Section, Block, and Survey)<br><b>Section 23 T-23S R-28E</b>                  |                                             | 9. RRC Identification Number<br>(Gas completions only) |
|                                                                                            |                                             | 10. County<br><b>Eddy</b>                              |

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**SEP 15 1979**

**SEP 12 1980**

**O. C. D.**  
**ARTESIA, OFFICE**

**RECORD OF INCLINATION**

| *11. Measured Depth<br>(feet) | 12. Course Length<br>(Hundreds of feet) | *13. Angle of<br>Inclination<br>(Degrees) | 14. Displacement per<br>Hundred Feet<br>(Sine of Angle X100) | 15. Course<br>Displacement (feet) | 16. Accumulative<br>Displacement (feet) |
|-------------------------------|-----------------------------------------|-------------------------------------------|--------------------------------------------------------------|-----------------------------------|-----------------------------------------|
| 205                           | 2.05                                    | 3/4                                       | 1.31                                                         | 2.69                              | 2.69                                    |
| 360                           | 1.55                                    | 1 1/2                                     | 2.62                                                         | 4.06                              | 6.75                                    |
| 440                           | .80                                     | 1 1/2                                     | 2.62                                                         | 2.10                              | 8.85                                    |
| 600                           | 1.60                                    | 1 3/4                                     | 3.05                                                         | 4.88                              | 13.73                                   |
| 800                           | 2.00                                    | 1 1/2                                     | 2.62                                                         | 5.24                              | 18.97                                   |
| 1158                          | 2.58                                    | 1 1/4                                     | 2.18                                                         | 5.62                              | 24.59                                   |
| 1350                          | 1.92                                    | 1 1/4                                     | 2.18                                                         | 4.19                              | 28.78                                   |
| 1550                          | 2.00                                    | 1 1/2                                     | 2.62                                                         | 5.24                              | 34.02                                   |
| 1754                          | 2.04                                    | 1 1/4                                     | 2.18                                                         | 4.45                              | 38.47                                   |
| 1908                          | 1.54                                    | 1 1/4                                     | 2.18                                                         | 3.36                              | 41.83                                   |
| 2031                          | 1.23                                    | 1 3/4                                     | 3.05                                                         | 3.75                              | 45.58                                   |
| 2145                          | 1.14                                    | 1 3/4                                     | 3.05                                                         | 3.48                              | 49.06                                   |
| 2267                          | 1.22                                    | 2                                         | 3.49                                                         | 4.26                              | 53.32                                   |
| 2360                          | .93                                     | 2 1/4                                     | 3.93                                                         | 3.65                              | 56.97                                   |
| 2432                          | .72                                     | 2 1/4                                     | 3.93                                                         | 2.83                              | 59.80                                   |
| 2480                          | .48                                     | 2                                         | 3.49                                                         | 1.68                              | 61.48                                   |

If additional space is needed, use the reverse side of this form.

17. Is any information shown on the reverse side of this form? ☒ yes ☐ no
18. Accumulative total displacement of well bore at total depth of 9430 feet = 252.25 feet.
- \*19. Inclination measurements were made in — ☐ Tubing ☐ Casing ☐ Open hole ☒ Drill Pipe
20. Distance from surface location of well to the nearest lease line \_\_\_\_\_ feet.
21. Minimum distance to lease line as prescribed by field rules \_\_\_\_\_ feet.
22. Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? NO
- (If the answer to the above question is "yes", attach written explanation of the circumstances.)

| INCLINATION DATA CERTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | OPERATOR CERTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.</p> <p align="center"><i>Ken Heathman</i></p> <p>Signature of Authorized Representative</p> <p><b>Ken Heathman - Drilling Engineer</b></p> <p>Name of Person and Title (type or print)</p> <p><b>Delta Drilling Company</b></p> <p>Name of Company</p> <p>Telephone: <u>915</u> <u>332-7371</u></p> <p align="center">Area Code</p> | <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.</p> <p align="center"><i>Raul Madrid</i></p> <p>Signature of Authorized Representative</p> <p><b>Raul Madrid - Staff Engineer</b></p> <p>Name of Person and Title (type or print)</p> <p><b>Delta Drilling Company</b></p> <p>Operator</p> <p>Telephone: <u>915</u> <u>682-4161</u></p> <p align="center">Area Code</p> |

*Railroad Commission Use Only:*

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

\* Designates items certified by company that conducted the inclination surveys.

# RECORD OF INCLINATION (Continued from reverse side)

| *11. Measured Depth<br>(feet) | 12. Course Length<br>(Hundreds of feet) | *13. Angle of<br>Inclination (Degrees) | 14. Displacement per<br>Hundred Feet<br>(Sine of Angle X100) | 15. Course<br>Displacement (feet) | 16. Accumulative<br>Displacement (feet) |
|-------------------------------|-----------------------------------------|----------------------------------------|--------------------------------------------------------------|-----------------------------------|-----------------------------------------|
| 2520                          | .40                                     | 1 3/4                                  | 3.05                                                         | 1.22                              | 62.70                                   |
| 2618                          | .98                                     | 1 3/4                                  | 3.05                                                         | 2.99                              | 65.69                                   |
| 2743                          | 1.25                                    | 2                                      | 3.49                                                         | 4.36                              | 70.05                                   |
| 2838                          | .95                                     | 1 3/4                                  | 3.05                                                         | 2.90                              | 72.95                                   |
| 2928                          | .90                                     | 1 3/4                                  | 3.05                                                         | 2.75                              | 75.70                                   |
| 3023                          | .95                                     | 1 3/4                                  | 3.05                                                         | 2.90                              | 78.60                                   |
| 3114                          | .91                                     | 1 3/4                                  | 3.05                                                         | 2.78                              | 81.38                                   |
| 3180                          | .66                                     | 2                                      | 3.49                                                         | 2.30                              | 83.68                                   |
| 3432                          | 2.52                                    | 1 3/4                                  | 3.05                                                         | 7.69                              | 91.37                                   |
| 3699                          | 2.67                                    | 1                                      | 1.75                                                         | 4.67                              | 96.04                                   |
| 4196                          | 4.97                                    | 3/4                                    | 1.31                                                         | 6.51                              | 102.55                                  |
| 4683                          | 4.87                                    | 1/2                                    | .87                                                          | 4.24                              | 106.79                                  |
| 5148                          | 4.65                                    | 1                                      | 1.75                                                         | 8.14                              | 114.93                                  |
| 5575                          | 4.27                                    | 1/2                                    | .44                                                          | 1.88                              | 116.81                                  |
| 5999                          | 4.24                                    | 3/4                                    | 1.31                                                         | 5.55                              | 122.36                                  |
| 6430                          | 4.31                                    | 1 1/2                                  | 2.62                                                         | 11.29                             | 133.65                                  |
| 6806                          | 3.76                                    | 1 1/2                                  | 2.62                                                         | 9.85                              | 143.50                                  |
| 7160                          | 3.54                                    | 1 1/2                                  | 2.62                                                         | 9.27                              | 152.77                                  |
| 7535                          | 3.75                                    | 1                                      | 1.75                                                         | 6.56                              | 159.33                                  |
| 7702                          | 1.67                                    | 2 1/2                                  | 3.93                                                         | 6.56                              | 165.89                                  |
| 8112                          | 4.10                                    | 3 1/2                                  | 6.10                                                         | 25.01                             | 190.90                                  |
| 8240                          | 1.28                                    | 3 3/4                                  | 6.54                                                         | 8.37                              | 199.27                                  |
| 8294                          | .54                                     | 3 1/2                                  | 6.10                                                         | 3.29                              | 202.56                                  |
| 8356                          | .62                                     | 3 1/2                                  | 6.10                                                         | 3.78                              | 206.34                                  |
| 8513                          | 1.57                                    | 3 1/2                                  | 6.10                                                         | 9.58                              | 215.92                                  |
| 8575                          | .62                                     | 3                                      | 5.23                                                         | 3.24                              | 219.16                                  |
| 8637                          | .62                                     | 2 3/4                                  | 4.80                                                         | 2.98                              | 222.14                                  |
| 8700                          | .63                                     | 2                                      | 3.49                                                         | 2.20                              | 224.34                                  |
| 8765                          | .65                                     | 2                                      | 3.49                                                         | 2.27                              | 226.61                                  |
| 8859                          | .94                                     | 1 1/2                                  | 2.62                                                         | 2.46                              | 229.07                                  |
| 9028                          | 1.69                                    | 1 3/4                                  | 3.05                                                         | 5.15                              | 234.22                                  |
| 9177                          | 1.49                                    | 2 1/2                                  | 4.36                                                         | 6.50                              | 240.72                                  |
| 9275                          | .98                                     | 2                                      | 3.49                                                         | 3.42                              | 244.14                                  |
| 9430                          | 1.55                                    | 3                                      | 5.23                                                         | 8.11                              | 252.25                                  |

If additional space is needed, attach separate sheet and check here. ☐

REMARKS:

## - INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.