



**REPORT  
of  
SUB-SURFACE  
DIRECTIONAL  
SURVEY**

SHELL WESTERN EXPLORATION AND PRODUCTION INC..  
COMPANY

ANTELOPE RIDGE WELL NO. 10  
WELL NAME

LEA COUNTY, NEW MEXICO  
LOCATION

JOB NUMBER

WT0585-A0286

TYPE OF SURVEY

SEEKER I GYROSCOPIC SURVEY

DATE

5/24/85

SURVEY BY  
STEVE COVINGTON

OFFICE  
WEST TEXAS

SHELL WESTERN EXPLORATION AND PRODUCTION INC.

WELL NAME: ANTELOPE RIDGE #10

LOCATION: LEA COUNTY, NEW MEXICO BD2-218

DATE: 24-MAY-85

LATITUDE: 32.23

SLEW/SETTLE: 14/11

TOOL: EW0240

DISTRICT: WEST TEXAS

SURVEYOR: SIEVE COVINGTON

CO. REP: JIM HORTON

HEAT SHIELD: 2 INCH HALF FLASK

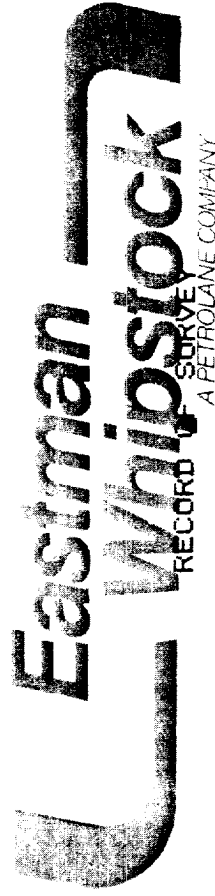
EASTMAN WHIPSTOCK, INC.

SEEKER I GYROSCOPIC SURVEY

SURVEY DEPTHS:

WT0585-A0286

(0'-11770')



RADIUS OF CURVATURE METHOD

WELL NAME: ANTELOPE RIDGE #10

TIME DATE

56:19:42 26-MAY-85

LOCATION: LEA COUNTY, NEW MEXICO BD2-218

| MEASURED<br>DEPTH<br>FEET | DRIFT<br>ANGLE<br>D M | DRIFT<br>DIRECTION<br>D | TRUE<br>VERTICAL<br>DEPTH<br>FEET | R E C T A N G U L A R<br>C O O R D I N A T E S |        | DOG LEG<br>SEVERITY<br>DG/100FT |
|---------------------------|-----------------------|-------------------------|-----------------------------------|------------------------------------------------|--------|---------------------------------|
|                           |                       |                         |                                   | FEET                                           |        |                                 |
| 0.                        | 0 0                   | 0                       | 0.00                              | 0.00                                           | 0.00   | 0.00                            |
| 100.                      | 0 5                   | N 59 W                  | 100.00                            | 0.04 N                                         | 0.07 W | 0.09                            |
| 200.                      | 0 4                   | N 21 E                  | 200.00                            | 0.17 N                                         | 0.11 W | 0.11                            |
| 300.                      | 0 3                   | N 64 E                  | 300.00                            | 0.24 N                                         | 0.04 W | 0.06                            |
| 400.                      | 0 10                  | N 82 E                  | 400.00                            | 0.30 N                                         | 0.15 E | 0.11                            |
| 500.                      | 0 11                  | N 73 E                  | 500.00                            | 0.37 N                                         | 0.47 E | 0.04                            |
| 600.                      | 0 11                  | N 76 E                  | 600.00                            | 0.45 N                                         | 0.79 E | 0.01                            |
| 700.                      | 0 11                  | N 71 E                  | 700.00                            | 0.54 N                                         | 1.10 E | 0.02                            |
| 800.                      | 0 8                   | N 84 E                  | 800.00                            | 0.60 N                                         | 1.37 E | 0.06                            |
| 900.                      | 0 14                  | N 44 E                  | 900.00                            | 0.74 N                                         | 1.66 E | 0.16                            |
| 1000.                     | 0 10                  | S 30 E                  | 1000.00                           | 0.70 N                                         | 1.97 E | 0.33                            |
| 1100.                     | 0 23                  | N 61 E                  | 1100.00                           | 0.36 N                                         | 1.40 E | 0.42                            |
| 1200.                     | 0 5                   | N 48 W                  | 1199.99                           | 0.93 N                                         | 1.44 E | 0.43                            |
| 1300.                     | 0 8                   | N 46 W                  | 1299.99                           | 1.06 N                                         | 1.30 E | 0.05                            |
| 1400.                     | 0 8                   | N 39 W                  | 1399.99                           | 1.25 N                                         | 2.12 E | 0.02                            |
| 1500.                     | 0 9                   | N 61 W                  | 1499.99                           | 1.42 N                                         | 1.92 E | 0.06                            |
| 1600.                     | 0 12                  | N 68 W                  | 1599.99                           | 1.55 N                                         | 1.62 E | 0.06                            |
| 1700.                     | 0 13                  | N 63 W                  | 1699.99                           | 1.72 N                                         | 1.27 E | 0.02                            |
| 1800.                     | 0 12                  | N 62 W                  | 1799.99                           | 1.89 N                                         | 0.93 E | 0.02                            |
| 1900.                     | 0 13                  | N 56 W                  | 1899.99                           | 2.07 N                                         | 0.62 E | 0.03                            |
| 2000.                     | 0 15                  | N 57 W                  | 1999.99                           | 2.30 N                                         | 0.26 E | 0.04                            |
| 2100.                     | 0 11                  | N 53 W                  | 2099.99                           | 2.54 N                                         | 0.08 W | 0.07                            |
| 2200.                     | 0 12                  | N 57 W                  | 2199.99                           | 2.75 N                                         | 0.39 W | 0.02                            |
| 2300.                     | 0 13                  | N 52 W                  | 2299.99                           | 2.97 N                                         | 0.71 W | 0.02                            |
| 2400.                     | 0 17                  | N 41 W                  | 2399.99                           | 3.28 N                                         | 1.05 W | 0.09                            |
| 2500.                     | 0 16                  | N 41 W                  | 2499.99                           | 3.65 N                                         | 1.37 W | 0.02                            |
| 2600.                     | 0 17                  | N 38 W                  | 2599.98                           | 4.03 N                                         | 1.69 W | 0.02                            |
| 2700.                     | 0 25                  | N 33 W                  | 2699.98                           | 4.54 N                                         | 2.06 W | 0.15                            |
| 2800.                     | 0 31                  | N 30 W                  | 2799.98                           | 5.24 N                                         | 2.50 W | 0.10                            |
| 2900.                     | 0 26                  | N 30 W                  | 2899.98                           | 5.97 N                                         | 2.93 W | 0.08                            |

SHELL WESTERN EXPLORATION AND PRODUCTION INC.  
WELL NAME: ANTELOPE RIDGE #10  
LOCATION: LEA COUNTY, NEW MEXICO BD2-218

COMPUTATION PAGE NO. 2

TIME DATE  
56:19:42 26-MAY-85

| MEASURED<br>DEPTH<br>FEET | DRIFT<br>ANGLE<br>D M | DRIFT<br>DIRECTION<br>D | TRUE<br>VERTICAL<br>DEPTH<br>FEET | R E C T A N G U L A R<br>C O R R E C T I O N S<br>FEET | D O G L E G<br>S E V E R I T Y<br>DG/100FT |
|---------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------------------------|--------------------------------------------|
|                           |                       |                         |                                   |                                                        |                                            |
| 3000.                     | 0 22                  | N 27 W                  | 2999.97                           | 6.67 N                                                 | 3.33 W 0.06                                |
| 3100.                     | 0 35                  | N 11 W                  | 3099.97                           | 7.57 N                                                 | 3.64 W 0.18                                |
| 3200.                     | 0 38                  | N 8 W                   | 3199.96                           | 8.63 N                                                 | 3.83 W 0.06                                |
| 3300.                     | 0 41                  | N 6 W                   | 3299.95                           | 9.78 N                                                 | 3.99 W 0.04                                |
| 3400.                     | 0 42                  | N 0 W                   | 3399.95                           | 10.98 N                                                | 4.07 W 0.08                                |
| 3500.                     | 0 32                  | N 3 W                   | 3499.94                           | 12.17 N                                                | 4.12 W 0.06                                |
| 3600.                     | 0 41                  | N 3 W                   | 3599.93                           | 13.35 N                                                | 4.20 W 0.03                                |
| 3700.                     | 0 43                  | N 13 W                  | 3699.93                           | 14.58 N                                                | 4.38 W 0.12                                |
| 3800.                     | 0 42                  | N 23 W                  | 3799.92                           | 15.79 N                                                | 4.79 W 0.13                                |
| 3900.                     | 0 41                  | N 20 W                  | 3899.91                           | 16.91 N                                                | 5.24 W 0.04                                |
| 4000.                     | 0 46                  | N 35 W                  | 3999.89                           | 18.05 N                                                | 5.84 W 0.21                                |
| 4100.                     | 0 42                  | N 42 W                  | 4099.87                           | 19.06 N                                                | 6.66 W 0.11                                |
| 4200.                     | 0 26                  | N 44 W                  | 4199.89                           | 19.79 N                                                | 35 W 0.27                                  |
| 4300.                     | 0 11                  | S 34 E                  | 4299.89                           | 19.55 W                                                | 6.64 W 0.64                                |
| 4400.                     | 0 23                  | S 23 E                  | 4399.89                           | 19.11 N                                                | 7.39 W 0.19                                |
| 4500.                     | 0 31                  | S 3 E                   | 4499.88                           | 18.33 N                                                | 7.20 W 0.22                                |
| 4600.                     | 0 44                  | S 31 E                  | 4599.88                           | 17.29 N                                                | 6.87 W 0.37                                |
| 4700.                     | 0 54                  | S 63 E                  | 4699.87                           | 16.34 N                                                | 5.82 W 0.48                                |
| 4800.                     | 1 5                   | S 74 E                  | 4799.85                           | 15.73 N                                                | 4.19 W 0.26                                |
| 4900.                     | 0 59                  | S 76 E                  | 4899.83                           | 15.28 N                                                | 2.43 W 0.10                                |
| 5000.                     | 0 57                  | S 87 E                  | 4999.82                           | 15.03 N                                                | 0.76 W 0.19                                |
| 5100.                     | 0 44                  | N 88 E                  | 5099.81                           | 15.01 N                                                | 0.72 E 0.22                                |
| 5200.                     | 0 34                  | N 70 E                  | 5199.80                           | 15.21 N                                                | 1.85 E 0.26                                |
| 5300.                     | 0 33                  | N 68 E                  | 5299.80                           | 15.57 N                                                | 2.81 E 0.04                                |
| 5400.                     | 0 32                  | N 62 E                  | 5399.79                           | 15.97 N                                                | 3.67 E 0.06                                |
| 5500.                     | 0 34                  | N 62 E                  | 5499.79                           | 16.37 N                                                | 4.55 E 0.08                                |
| 5600.                     | 0 28                  | N 68 E                  | 5599.78                           | 16.69 N                                                | 5.40 E 0.10                                |
| 5700.                     | 0 16                  | N 39 E                  | 5699.78                           | 17.08 N                                                | 5.93 E 0.27                                |
| 5800.                     | 0 9                   | N 18 E                  | 5799.78                           | 17.41 N                                                | 6.11 E 0.14                                |
| 5900.                     | 0 10                  | N 2 E                   | 5899.78                           | 17.70 N                                                | 6.16 E 0.05                                |

SHELL WESTERN EXPLORATION AND PRODUCTION INC.  
WELL NAME: ANTELOPE RIDGE #10  
LOCATION: LEA COUNTY, NEW MEXICO BD2-218

COMPUTATION PAGE NO. 3

TIME DATE  
56:19:42 26-MAY-85

| MEASURED<br>DEPTH<br>FEET | DRIFT<br>ANGLE<br>D M | DRIFT<br>DIRECTION<br>D | TRUE<br>VERTICAL<br>DEPTH<br>FEET | R E C T A N G U L A R |         | DOG LEG<br>SEVERITY<br>DG/100FT |
|---------------------------|-----------------------|-------------------------|-----------------------------------|-----------------------|---------|---------------------------------|
|                           |                       |                         |                                   | C O O R D I N A T E S | FEET    |                                 |
| 6000.                     | 0 11                  | N 0 W                   | 5999.78                           | 18.00 N               | 6.17 E  | 0.03                            |
| 6100.                     | 0 13                  | N 5 W                   | 6099.78                           | 18.38 N               | 6.15 E  | 0.03                            |
| 6200.                     | 0 15                  | N 3 W                   | 6199.78                           | 18.80 N               | 6.12 E  | 0.04                            |
| 6300.                     | 0 26                  | N 8 W                   | 6299.77                           | 19.41 N               | 6.05 E  | 0.18                            |
| 6400.                     | 0 25                  | N 9 W                   | 6399.77                           | 20.15 N               | 5.93 E  | 0.03                            |
| 6500.                     | 0 23                  | N 1 W                   | 6499.77                           | 20.86 N               | 5.86 E  | 0.06                            |
| 6600.                     | 0 26                  | N 9 W                   | 6599.77                           | 21.58 N               | 5.80 E  | 0.07                            |
| 6700.                     | 0 23                  | N 0 W                   | 6699.76                           | 22.30 N               | 5.73 E  | 0.07                            |
| 6800.                     | 0 24                  | N 3 E                   | 6799.76                           | 23.00 N               | 5.75 E  | 0.03                            |
| 6900.                     | 0 25                  | N 6 E                   | 6899.76                           | 23.72 N               | 5.81 E  | 0.04                            |
| 7000.                     | 0 23                  | N 16 E                  | 6999.75                           | 24.44 N               | 5.96 E  | 0.08                            |
| 7100.                     | 0 20                  | N 18 E                  | 7099.73                           | 25.03 N               | 6.15 E  | 0.05                            |
| 7200.                     | 0 16                  | N 38 E                  | 7199.75                           | 25.52 N               | 6.41 E  | 0.12                            |
| 7300.                     | 0 18                  | N 54 E                  | 7299.75                           | 25.84 N               | 6.77 E  | 0.09                            |
| 7400.                     | 0 16                  | N 69 E                  | 7399.73                           | 26.06 N               | 7.19 E  | 0.06                            |
| 7500.                     | 0 19                  | N 77 E                  | 7499.75                           | 26.21 N               | 7.70 E  | 0.07                            |
| 7600.                     | 0 20                  | N 72 E                  | 7599.75                           | 26.36 N               | 8.27 E  | 0.03                            |
| 7700.                     | 0 35                  | N 69 E                  | 7699.74                           | 26.63 N               | 9.04 E  | 0.25                            |
| 7800.                     | 0 40                  | N 60 E                  | 7799.74                           | 27.09 N               | 10.03 E | 0.12                            |
| 7900.                     | 1 52                  | N 8 W                   | 7899.71                           | 28.96 N               | 10.96 E | 1.75                            |
| 8000.                     | 1 54                  | N 10 W                  | 7999.66                           | 32.22 N               | 10.43 E | 0.07                            |
| 8100.                     | 1 39                  | N 10 W                  | 8099.61                           | 35.28 N               | 9.87 E  | 0.26                            |
| 8200.                     | 1 33                  | N 8 W                   | 8199.57                           | 38.04 N               | 9.40 E  | 0.11                            |
| 8300.                     | 1 10                  | N 0 W                   | 8299.54                           | 40.41 N               | 9.20 E  | 0.43                            |
| 8400.                     | 0 57                  | N 9 E                   | 8399.52                           | 42.27 N               | 9.34 E  | 0.28                            |
| 8500.                     | 0 50                  | N 15 E                  | 8499.51                           | 43.81 N               | 9.68 E  | 0.16                            |
| 8600.                     | 0 43                  | N 23 E                  | 8599.50                           | 45.08 N               | 10.13 E | 0.16                            |
| 8700.                     | 0 34                  | N 44 E                  | 8699.50                           | 46.01 N               | 10.76 E | 0.28                            |
| 8800.                     | 0 28                  | N 55 E                  | 8799.49                           | 46.60 N               | 11.46 E | 0.14                            |
| 8900.                     | 0 28                  | N 59 E                  | 8899.49                           | 47.05 N               | 12.16 E | 0.04                            |

WELL NAME: ANTELOPE RIDGE #10

TIME DATE

56:19:42 26-MAY-85

LOCATION: LEA COUNTY, NEW MEXICO BD2-218

| MEASURED<br>DEPTH<br>FEET | DRIFT<br>ANGLE<br>D M | DRIFT<br>DIRECTION<br>D | TRUE<br>VERTICAL<br>DEPTH<br>FEET | R E C T A N G U L A R |         | DOG LEG<br>SEVERITY<br>DG/100FT |
|---------------------------|-----------------------|-------------------------|-----------------------------------|-----------------------|---------|---------------------------------|
|                           |                       |                         |                                   | C O O R D I N A T E S | F E E T |                                 |
| 2000.                     | 0 28                  | N 55 E                  | 8999.49                           | 47.49 N               | 12.86 E | 0.03                            |
| 9100.                     | 0 48                  | N 32 E                  | 9099.48                           | 48.29 N               | 13.63 E | 0.42                            |
| 9200.                     | 0 44                  | N 56 E                  | 9199.47                           | 49.25 N               | 14.58 E | 0.33                            |
| 9300.                     | 1 22                  | N 59 E                  | 9299.45                           | 50.24 N               | 16.15 E | 0.64                            |
| 9400.                     | 1 48                  | N 39 E                  | 9399.41                           | 52.04 N               | 18.25 E | 0.70                            |
| 9500.                     | 2 5                   | N 24 E                  | 9499.35                           | 54.93 N               | 20.04 E | 0.58                            |
| 9600.                     | 2 13                  | N 11 E                  | 9599.28                           | 58.52 N               | 21.18 E | 0.52                            |
| 9700.                     | 2 13                  | N 7 E                   | 9699.21                           | 62.35 N               | 21.79 E | 0.16                            |
| 9800.                     | 2 16                  | N 10 E                  | 9799.13                           | 66.22 N               | 22.38 E | 0.14                            |
| 9900.                     | 2 15                  | N 8 E                   | 9899.05                           | 70.12 N               | 23.03 E | 0.08                            |
| 10000.                    | 1 56                  | N 0 W                   | 9999.45                           | 73.77 N               | 23.27 E | 0.46                            |
| 10100.                    | 1 52                  | N 16 W                  | 10098.78                          | 77.03 N               | 23.93 E | 0.34                            |
| 10200.                    | 1 59                  | N 19 W                  | 10198.87                          | 80.23 N               | 24.03 E | 0.32                            |
| 10300.                    | 2 1                   | N 25 W                  | 10298.81                          | 83.59 N               | 24.65 E | 0.22                            |
| 10400.                    | 2 11                  | N 28 W                  | 10398.74                          | 86.91 N               | 25.96 E | 0.15                            |
| 10500.                    | 2 27                  | N 30 W                  | 10498.66                          | 90.44 N               | 26.96 E | 0.29                            |
| 10600.                    | 2 16                  | N 23 W                  | 10598.57                          | 94.12 N               | 27.08 E | 0.36                            |
| 10700.                    | 2 1                   | N 33 W                  | 10698.50                          | 97.41 N               | 27.30 E | 0.46                            |
| 10800.                    | 1 58                  | N 34 W                  | 10798.44                          | 100.28 N              | 28.35 E | 0.07                            |
| 10900.                    | 1 58                  | N 29 W                  | 10898.38                          | 103.19 N              | 29.50 E | 0.17                            |
| 11000.                    | 2 3                   | N 22 W                  | 10998.32                          | 106.36 N              | 30.95 E | 0.28                            |
| 11100.                    | 2 15                  | N 22 W                  | 11098.25                          | 109.84 N              | 32.51 E | 0.19                            |
| 11200.                    | 2 57                  | N 23 W                  | 11198.14                          | 114.02 N              | 34.72 E | 0.72                            |
| 11300.                    | 2 57                  | N 15 W                  | 11298.01                          | 118.87 N              | 37.00 E | 0.44                            |
| 11400.                    | 2 32                  | N 15 W                  | 11397.90                          | 123.48 N              | 39.74 E | 0.41                            |
| 11500.                    | 2 42                  | N 24 W                  | 11497.79                          | 127.78 N              | 42.20 E | 0.44                            |
| 11600.                    | 2 49                  | N 34 W                  | 11597.68                          | 131.98 N              | 45.18 W | 0.53                            |
| 11700.                    | 3 6                   | N 36 W                  | 11697.54                          | 136.16 N              | 48.21 W | 0.29                            |
| 11770.                    | 3 14                  | N 37 W                  | 11767.43                          | 139.24 N              | 51.55 W | 0.20                            |

FINAL CLOSURE - DIRECTION: N 3 DEGS 6 MINS W  
DISTANCE: 139.45 FEET

SHELL WESTERN EXPLORATION AND PRODUCTION  
WELL NAME: ANTELOPE RISE  
LOCATION: LEA COUNTY, MO.

HORIZONTAL PROJECTION

SCALE 1 IN. = 20 FEET  
DEPTH INDICATOR: MD

EASTMAN WHIPSTOCK, IN



SIGNAL STATION:  
DEPTH 11770 MD. 11767.43 TVD  
NORTH 139.24 WEST 7.55  
PRESSURE 139.44 N 3 6 20 W

10420

9850C





(915) 563-0511

P.O. Box 6341/Terminal Station/Midland, TX 79711-0341

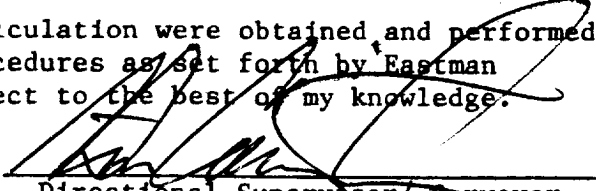
SURVEY CERTIFICATION SHEET

STATE OF TEXAS  
COUNTY OF MIDLAND

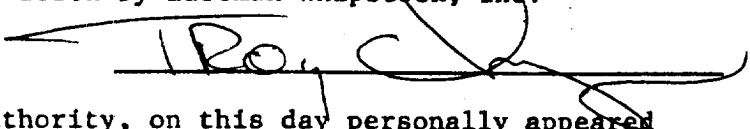
I, STEVE COVINGTON, in the employ of Eastman Whipstock, Inc., did on the days of MAY 23, 1985 thru MAY 24, 1985 conduct or supervise the taking of a SEEKER I GYROSCOPIC survey by the method of magnetic orientation from a depth of 0 feet to 11770 feet, with recordings of inclination and direction being obtained at approximate intervals of 100 feet.

This survey was conducted at the request of SHELL WESTERN EXP. & PROD. INC. for their ANTELOPE RIDGE #10, LEA County, State of NEW MEXICO, in the        field.

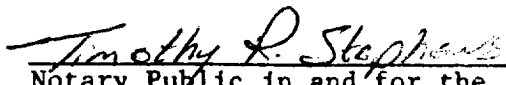
This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Whipstock, Inc. and is true and correct to the best of my knowledge.

  
\_\_\_\_\_  
Directional Supervisor/ Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Whipstock, Inc.

  
Before me, the undersigned authority, on this day personally appeared STEVE COVINGTON, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this 16 day of July, 1985

  
\_\_\_\_\_  
Notary Public in and for the  
County of Midland, Texas  
My commission expires \_\_\_\_\_



Timothy R. Stephens  
Notary Public, State of Texas  
My Commission Expires 4-1-89

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-128  
Effective 1-1-83

All distances must be from the outer boundaries of the Section

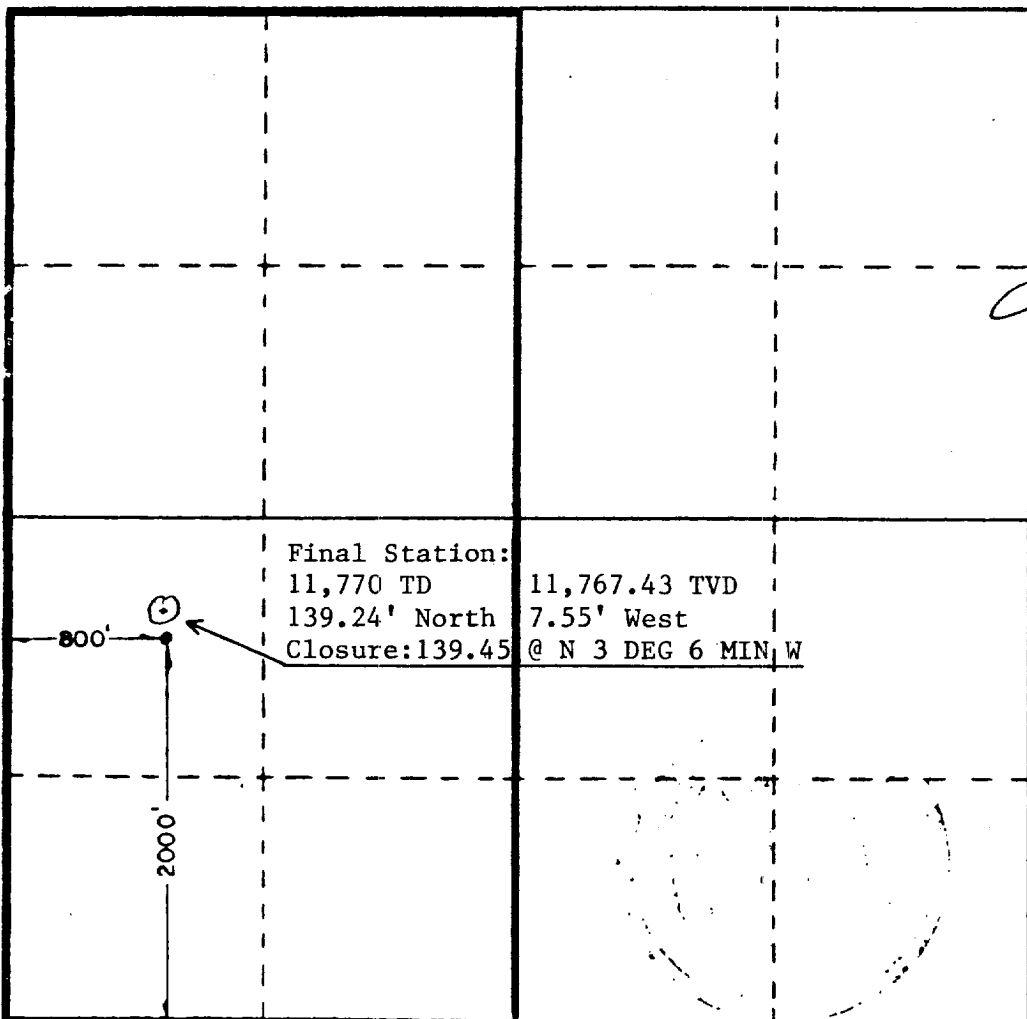
|                                                                                                                                                                                                               |                                      |                             |                                                |                      |  |                                        |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------|------------------------------------------------|----------------------|--|----------------------------------------|--|--|
| Operator<br><b>SHELL WESTERN E. &amp; P., INC.</b>                                                                                                                                                            |                                      |                             | Lease<br><b>ANTELOPE RIDGE UNIT</b>            |                      |  | Well No.<br><b>10</b>                  |  |  |
| Well Letter<br><b>1.</b>                                                                                                                                                                                      | Section<br><b>3</b>                  | Township<br><b>24 SOUTH</b> | Range<br><b>34 EAST</b>                        | County<br><b>LEA</b> |  |                                        |  |  |
| Actual Footage Location of Well:<br><div style="display: flex; justify-content: space-between;"> <span>2000 feet from the <b>SOUTH</b> line and</span> <span>800 feet from the <b>WEST</b> line</span> </div> |                                      |                             |                                                |                      |  |                                        |  |  |
| Ground Level Elev.<br><b>3539.0</b>                                                                                                                                                                           | Producing Formation<br><b>MORROW</b> |                             | Pool<br><b>ANTELOPE RIDGE<br/>ATOKA/MORROW</b> |                      |  | Dedicated Acreage:<br><b>320</b> Acres |  |  |

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes    ☐ No    If answer is "yes," type of consolidation **UNITIZATION**

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

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

Name *A. J. Fore* for **A. J. FORE**  
 Position \_\_\_\_\_  
**SUPERVISOR REG. & PERMITTING**  
 Company **SHELL WESTERN E&P INC.**

Date  
**AUGUST 14, 1984**

*I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.*

Date Surveyed  
**JUNE 29, 1984**

Registered Professional Engineer  
and/or Land Surveyor

***John W. West***  
 Certificate No **JOHN W. WEST, 876**  
**RONALD J. EIDSON, 3239**

RECEIVED

JUL 17 1985

U.S. DEPT. OF JUSTICE