

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

- \*See Instructions on Reverse Side**

CHACE APACHE 15-2 RECOMPLETION

T. D. 7525'.

Tubing set @ 7176'. (August, 1977)

Move in w/o rig. Pull tubing. Have Bluejet run cement bond, gas spectrum, and correlation logs. Look for frac up casing.

GIHWT. Spot 350 gals. 7½% Hcl from bottom of hole up, to cover Dakota "B", Dakota "A", and Greenhorn zones. COH. GIH to reperfurate Dakota zones as follows:

DAKOTA "B": 7264', 7266', 7268', 7270', 7272', 7274', 7276'. 4 SPF. (28 holes)

DAKOTA "A": 7155', 7157', 7159', 7161', 7171', 7173', 7175', 7177', 7179',  
7206', 7208'. (44 holes)

Shoot initial GREENHORN perforations as follows:

7092', 7097', 7101', 7103', 7108', 7111', 7114'. 4 SPF. (28 holes)

Pump in. Establish rate 50-60 bbls. Break down. Drop 190 balls. Ball off.

GIHWJB. Retrieve balls.

Prepare to frac @ 35-40 BPM @ 3500 PSI, with 130,000 lbs. of 20/40 sand as follows:

|            |              |          |              |
|------------|--------------|----------|--------------|
| 24,000 gal | pad          |          |              |
| 7,500 gal  | 1/2 lb/gal   | 20/40 sd | 3,750 lbs.   |
| 10,000 gal | 1 lb/gal     | 20/40 sd | 10,000 lbs.  |
| 77,500 gal | 1 1/2 lb/gal | 20/40 sd | 116,250 lbs. |

Flush to bottom perforation with 2% Kcl water.

Total fluid to circulate hole, break down, and frac:

132,500 gal 130,000 lbs.

TOCITO ZONE: Set bridge plug @ 7030'. Test plug to 4000 PSI max. Spot 250 gal.

7½% Hcl. COHWT and perforate zone as follows:

TOCITO PERFORATIONS: 6741', 6751', 6753', 6773', 6779', 6788', 6794', 6808'  
6812', 6817', 6819', 6827', 6829', 6838', 6847', 6853', 6855',  
6860', 6864', 6867', 6869', 6875'. 4 SPF (88 holes)

Break down formation and establish rate with 25-50 bbls. 2% Kcl water. Max. pressure 4000 PSI. Drop 130 balls. Ball off perforations. GIHWJB. Retrieve balls. Prepare to frac down casing @ 40 BPM @ 3500 PSI with 30,000 lbs. 20/40 mesh sand.

|            |            |                 |             |
|------------|------------|-----------------|-------------|
| 13,000 gal | pad        |                 |             |
| 10,000 gal | 1/2 lb/gal | 20/40 mesh sand | 5,000 lbs.  |
| 33,333 gal | 3/4 lb/gal | 20/40 mesh sand | 25,000 lbs. |
|            |            |                 | 30,000 lbs. |

Flush to bottom perforation with 2% Kcl water. Total fluid for break down and frac: 70,000 gal.

GALLUP ZONE: Set bridge plug at 6300'. Test plug to 4000 PSI max. GIHWT. Spot 250 gal. 7½% Hcl. COHWT and perforate as follows:

5997', 6006', 6008', 6029', 6031', 6036', 6038', 6051', 6053', 6061', 6063', 6071', 6073', 6080', 6170', 6172', 6174', 6176'. 4 SPF (72 holes)

Break down formation and establish rate with 25 bbls. 2% Kcl water. Drop 110 balls. Ball off perforations. GIHWJB. Retrieve balls.

Prepare to frac down casing at 40-50 BPM @ 3500 PSI with 54,000 lbs. of 20/40 mesh sand as follows:

|            |              |       |             |
|------------|--------------|-------|-------------|
| 10,000 gal | pad          |       |             |
| 7,500 gal  | 1/2 lb/gal   | 20/40 | 3,750 lbs.  |
| 10,000 gal | 1 lb/gal     | 20/40 | 10,000 lbs. |
| 26,833 gal | 1 1/2 lb/gal | 20/40 | 40,250 lbs. |

Totals: 68,000 gal. 54,000 lbs.

Flush to bottom perforation with 2% Kcl water.