

Formation Stage No. I Date 9/16/80 Chacon Jicarilla

Operator ODESSA NATURAL CORPORATION Lease and Well "D" No. 17

Correlation Log Type GR-CCL From 7563' To 5900'

Temporary Bridge Plug Type None Set At

Perforations 7392'-7401'; 7404'-7412'
2 Per foot type 3-1/2" Glass Strip Jets

Pad 7,000 gallons. Additives % Kcl. 15 lbs.
FR-20 per 1000 gallons. Adomite per 1000
gallons.

Water 40,000 gallons. Additives 1% Kcl. 2 lbs.
FR-20 per 1000 gallons. 15 lbs. Adomite per
1000 gallons.

Sand 40,000 lbs. Size 20/40 mesh

Flush 5,500 gallons. Additives 1% Kcl. 2 lbs.
FR-20 & 2gallon Frac Flo per 1000 gallons.
15 lbs. Adomite per 1000 gallons.

Breakdown 2500 psig

Ave. Treating Pressure 2600 psig

Max. Treating Pressure 2700 psig

Ave. Injecton Rate 31.5 BPM

Hydraulic Horsepower 2007 HHP

Instantaneous SIP 1500 psig

5 Minute SIP 1300 psig

10 Minute SIP 1250 psig

15 Minute SIP 1150 psig

Ball Drops: None Balls at gallons psig
 Balls at gallons psig
 Balls at gallons psig

Remarks: Pressured up to 4300 lbs., bled back pressure to 3500 fo 5".

Bled off pressure completely. Pressured to 3700 5" well broke to 2500. **Walsh** ENGINEERING & PRODUCTION CORP.

Formation Dakota "A" Stage No. 11

Date 9/18/80 Chacon Jicarilla

Operator ODESSA NATURAL CORPORATION

Lease and Well "D" o. 17

Correlation Log Type GR-CCL From 7560' To 5900'

Temporary Bridge Plug Type Halliburton Speed-E-Line Set At 7355' KE

Perforations 7283'-7326'
1 Per foot type 3-1/2" Glass Strip Jet

Pad 10,000 gallons. Additives 1% Kcl. 2 lbs
FR-20 per 1000 gallons. 1 gallon Frac Flo per
1000 gallons. 15 lbs. Adomite per 1000 gallons.

Water 80,000 gallons. Additives 1% Kcl. 2 lbs
FR-20 per 1000 gallons. 15 lbs. Adomite per 1000
gallons.

Sand 80,000 lbs. Size 20/40 mesh

Flush 4,900 gallons. Additives 1% Kcl. 2 lbs
FR-20.

Breakdown 2700 psig

Ave. Treating Pressure 2700 psig

Max. Treating Pressure 3300 psig

Ave. Injecton Rate 41 BPM

Hydraulic Horsepower 2713 HHP

Instantaneous SIP 1800 psig

5 Minute SIP 1650 psig

10 Minute SIP 1550 psig

15 Minute SIP 1500 psig

Ball Drops: 11 Balls at 40,000 gallons 250 psig

_____ Balls at _____ gallons _____ psig

_____ Balls at _____ gallons _____ psig
_____ incre

Remarks: _____