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DST #5: 12,956'-13,044' Morrow

Opn w/weak blow, increased to btm of bucket in 3 mins, continued increasing for remainder of 15 min init. flow; opn on final flow w/weak blow; inc. to good blow in 5 mins; stabilized for 40 mins & decreased slowly for remaining 15 mins of test.

Rec. in drill pipe, 3000' water blanket, 5117' salty formation water. Chlorides:

42,000 ppm, Middle: 40,000 ppm, Btm: 40,000 ppm. Sampler: 3600#, no oil or gas, 1300 cc formatino water. Chlorides 40,000 ppm.

6535# \mathbb{H} 2004-2103# (15 mins) IFP 6620# (60 mins) ISIP 2696-3921# (60 mins) FFP6208‡ (120 mins) FSIP 6835# FHP

DST #6: 13,086'-13,308' Morrow sand

Ran 3080' water blanket, tool opn on 15 min pre flow w/weak blow, SI 60 mins; re-opn w/weak blow, died in 38 mins and remained dead for remainder of 50 mins. Rec. 3080' water blanket, 60' drlg mud, slightly gas cut. Sampler chamber: 1930 psi, 1.62 cf gas, 1950 cc slightly gas cut mud.

```
1622-1622# (15 mins)
IFP
            4630# (60 mins)
ISIP
            1622--1656# (60 mins)
FFP
            4422 # (120 mins)
FSIP
            6957#
IHP
            6904#
FHP
             176°
BHT
```

Morrow sand 13,326-13,600' DST #7:

15 min pre flow, 60 min ISIP, 275 mins final flow, no FSIP due to pkr failure 275 mins into final flow. Opn w/strong blow on init. flow, opn w/strong blow on final flow, burned to pit on 1/2" choke, wtr blanket to surf. in 14 mins into final flow. GTS in 29 mins, 500# max. surf. press, 13.5 MMCF stabilized at 275#; 225 mins into final flow 7.3 MMCF. Rec. 50' distilate in drill pipe.

```
2000年時間
                   2861-2526#
IFP
                   6672#
ISIP
                   2784-1881#
                   none - pkr failure
FFP
                          SHOW SAME OF THE
FSIP
                    7144
Hydro - in
                    7119
Hydro - out
```

PREP TO RUN DST #8 AT SAME INTERVAL IN ORDER TO OBTAIN FSIP.

DST #8: 13,326'-13,600' Morrow sand

IHP 7168#

IFP 2655# (15 mins)
ISIP 6672# (60 mins)

FHP 7069#

FFP 2809 increased to 2861# when packer failed. Reversed out pure distillate for 5 to 6 mins. Presently making trip in hole w/bit to drill out pkr rubbers. Depth 13,600', Logging.

Picked up test tool, run 3316' water blanket and trip in hole, ran DST #8, packer failed 14 mins on final flow, water blanket to surface at this time, flow down test tool, pull 10 stands and reverse out, laid down test tool, break and load out, trip in hole with bit.



FORSTER DRILLING CO., INC.

5502 W INDUSTRIAL P O BOX 3526 MIDLAND, TEXAS 79702

INCLINATION REPORT

LOCA

Union Federal No. 1 Lea County, New Mexico

697.3166

563-0221

OPERATOR:

Estoril Producing Corporation 1120 Vaughn Building Midland, Texas 79701

DEPTH FEET	INCLINATION DEGREES	DEPTH FEET	INCLINATION DEGREES	DEPTH FEET	INCLINATION DEGREES
150	3/4	7,215	1 1/4	_	
300	1/2	7,660	3/4		
458	1/2	8,160	1		
665	1/4	8,660	1		
853	1/4	8,991	1 1/4		
1,345	3/4	9,491	3/4		
1,696	3/ 4	9,660	3/4		
•	2 / 1	•	•		
1,994	3/4	10,160	3/4		
2,470	3/4	10,660	3/4		
2,968	2	10,983	3/4		
3,323	2 1/4	11,483	<u>i</u>		
3 , 823	2	11,983	1 3/4		
4,323	2	12,362	1 3/4		
4,823	2	12,710	1 3/4		
5,215	2	13,210	2		
5,715	1 1/2	13.377	2 3/4		
6,215	1 1/2	13,600	2 1/4		
6,715	1 1/2	,	- , -		
			· · · · · · · · · · · · · · · · · · ·		

COUNTY OF MIDLAND STATE OF TEXAS

The undersigned states that he has knowledge of the facts and matter herein set forth and that the same are true and correct.

L.E. Grimes, Vice President

SUBSCRIBED AND SWORN TO BEFORE ME THIS 7th DAY OF

1979

My Commission Expires: March 7,1980