

SOUTH TAYLOR 13 #3
CONVERT TO INJECTION
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: South Taylor 13

Well No: 3 (To be renamed ESDU #1)

Location: 430' FSL & 1650' FEL, Sec 13 T-18-S
R-31-E, Eddy County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 366' in 12 1/4" hole ,
cemented w/230 sx. TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5450' in
7 7/8" hole, cemented w/ 1950 sx. TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Baker-Loc Set
injection packer set @ +/- 5000'.

B. Other well information

1. Injection formation: Delaware

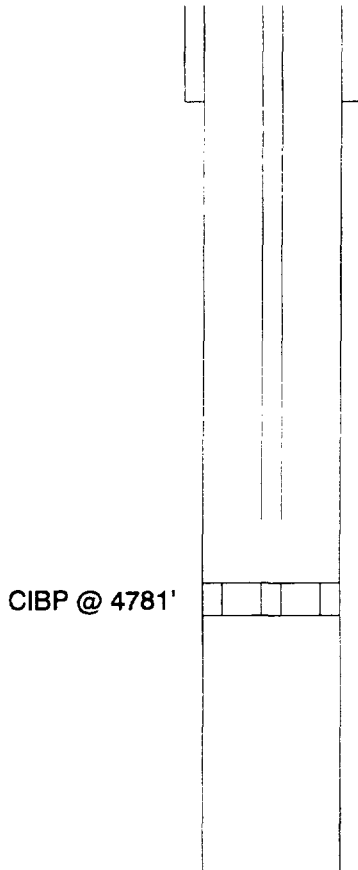
Field: East Shugart
2. Existing perforations: 4848-70 & 4330-4428 (These will be
squeezed off with cement.)

Proposed perfs: 5090-5420 w/ 2 JSPF
3. This well was drilled as a Delaware oil well.
4. There are no other perferd or tested intervals in
this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

ST. MARY LAND & EXPLORATION CURRENT

WELL: SOUTH TAYLOR 13 #3
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
430' FSL & 1650' FEL
SECTION 13
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:
RAN 24# 8 5/8" J-55 CSG, SET @ 366' CMT W/230 SXS
TOC @ SURFACE.

PRESENT COMPLETION INTERVAL:

DELAWARE - 4848-70'
GRAYBURG - 4330-4428'

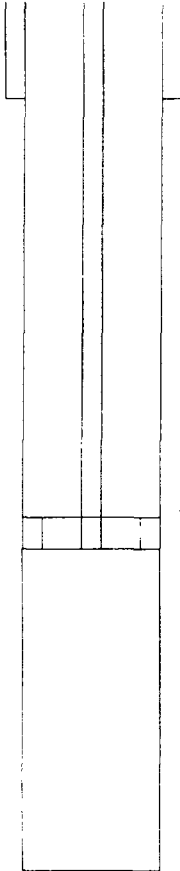
PRODUCTION CASING:
RAN 15.5# 5 1/2" J-55 CSG, SET @ 5450'.
CMT W/1950 SXS, TOC @ SURFACE.

TD: 5450'
PBTD: 4781'

ST. MARY LAND & EXPLORATION PROPOSED

WELL: ESDU #1 (FORMERLY SOUTH TAYLOR 13 #3)
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
430' FSL & 1650' FEL
SECTION 13
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:
RAN 24# 8 5/8" J-55 CSG, SET @ 366' CMT W/230 SXS
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:
SQUEEZE OFF GRAYBURG AND CHERRY CANYON
PERFS WITH CEMENT.

PERFORATE THE BRUSHY CANYON AT
5090-5420'

2 3/8" PLASTIC COATED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC-SET PACKER

PRODUCTION CASING:
RAN 15.5# J-55 CSG, SET @ 5450'.
CMT W/1950 SXS, TOC @ SURFACE.

TD: 5450'
PBTD: 4781'

ESDU #17
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 17

Location: 248' FNL & 302' FEL, Sec 24 T-18-S
R-31-E, Eddy County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole.
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5500' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

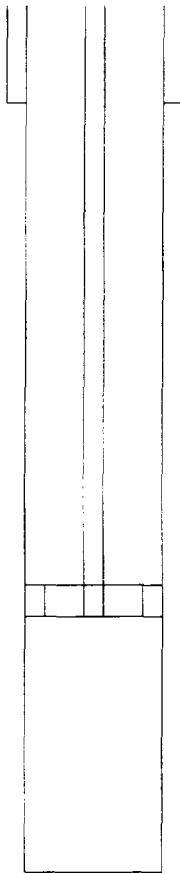
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5030'-5310' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #17
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
248' FNL & 302' FEL
SECTION 24
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5030' - 5310'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC-SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD = 5500'

ESDU #18
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 18

Location: 190' FNL & 1045' FWL, Sec 19 T-18-S
R-32-E, Lea County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5500' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

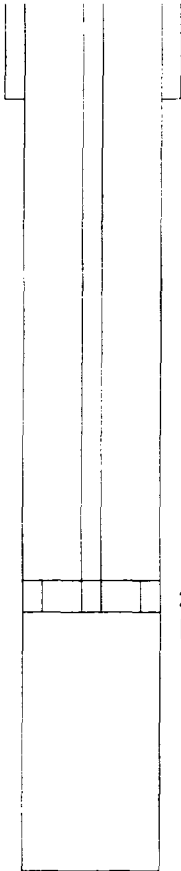
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5065'- 5320' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #18
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
190' FNL & 1045' FWL
SECTION 19
TWP-18-S, RNG-32-E
LEA COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5065' - 5320'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC - SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD = 5500'

ESDU #19
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 19

Location: 1288' FNL & 1361' FEL, Sec 24 T-18-S
R-31-E, Eddy County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5550' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

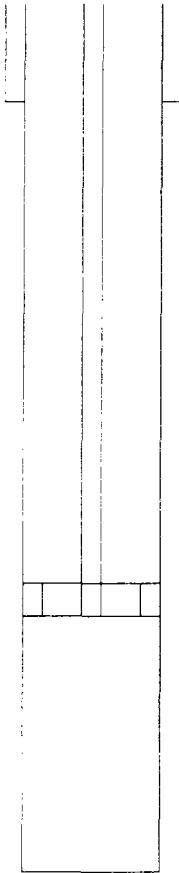
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5020' - 5310' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #19
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
1288' FNL & 1361' FEL
SECTION 24
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5020' - 5310'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC-SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD= 5500'

ESDU #20
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 20

Location: 1250' FNL & 303' FEL, Sec 24 T-18-S
R-31-E, Eddy County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5550' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Model R Lockset
injection packer set @ +/- 5000'.

B. Other well information

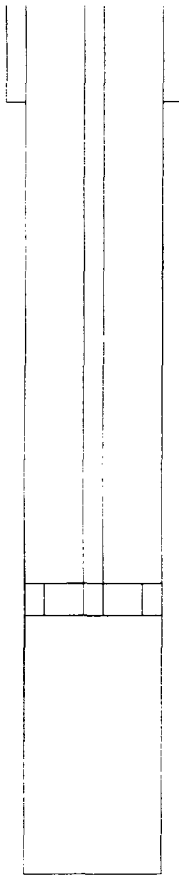
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5020' - 5310' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #20
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
1250' FNL & 303' FEL
SECTION 24
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5020' - 5310'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC - SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD= 5500'

ESDU #21
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 21

Location: 1193' FNL & 1018' FWL, Sec 19 T-18-S
R-32-E, Lea County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5550' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

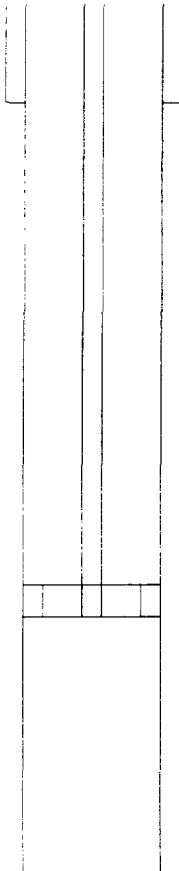
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5015' - 5330' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #21
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
1193' FNL & 1018' FWL
SECTION 19
TWP-18-S, RNG-32-E
LEA COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5015' - 5330'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC-SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD= 5500'

ESDU #22
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 22

Location: 2330' FNL & 1320' FEL, Sec 24 T-18-S
R-31-E, Eddy County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5550' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

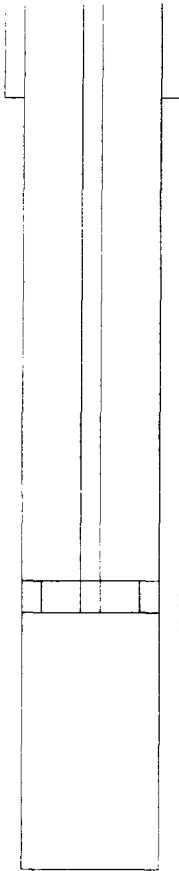
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5030'- 5340' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #22
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
2330' FNL & 1320' FEL
SECTION 24
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5030' - 5340'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC - SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD= 5500'

ESDU #23
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 23

Location: 2322' FNL & 248' FEL, Sec 24 T-18-S
R-31-E, Eddy County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5500' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

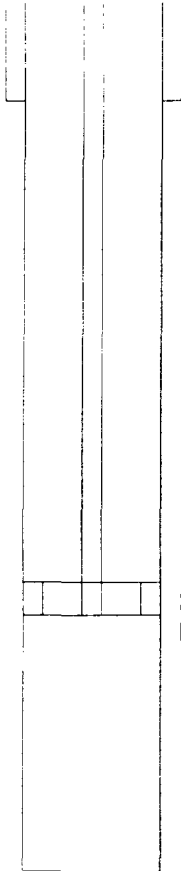
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5025'- 5345' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #23
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
2322' FNL & 248' FEL
SECTION 24
TWP-18-S, RNG-31-E
EDDY COUNTY, NM



SURFACE CASING:

24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE- 5025' - 5345'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC-SET PACKER

PRODUCTION CASING:

15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD= 5500'

ESDU #24
DRILL AS INJECTOR
NMOCD Form C-108 Section III

III. Data on injection well(s)

A. Injection well information (see attached schematic)

Tabular data

1. Lease: East Shugart Delaware Unit (ESDU)

Well No: 24

Location: 2322' FNL & 1073' FWL, Sec 19 T-18-S
R-32-E, Lea County, NM
2. Casing: 8 5/8", 24 #/ft, surface @ 350' in 12 1/4" hole
TOC @ surf.

5 1/2", 15.5 #/ft, production casing @ 5500' in
7 7/8" hole, TOC @ surf.
3. Injection tubing: + or - 156 jts 2 3/8", 4.7 lb/ft,
J-55 Duoline PVC lined tubing.:
4. Packer: An internally plastic coated Baker Loc-set
injection packer set @ +/- 5000'.

B. Other well information

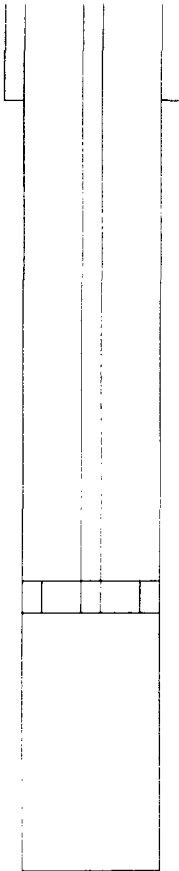
1. Injection formation: Delaware

Field: East Shugart
2. Proposed perfs: 5030' - 5360' w/ 2 JSPF
3. This well will be drilled as a Delaware injection well.
4. No other intervals will be perfed or tested in this well.
5. Within the area of this well the Grayburg is productive at a
depth of 4300'. The Bone Spring is productive at a depth of
7800'.

**ST. MARY LAND & EXPLORATION
PROPOSED
(TO BE DRILLED)**

WELL: ESDU #24
FIELD: EAST SHUGART
INTERVAL: DELAWARE

LOCATION:
2322' FNL & 1073' FWL
SECTION 19
TWP-18-S, RNG-32-E
LEA COUNTY, NM



SURFACE CASING:
24#, J-55, 8 5/8" CSG, SET @ 350'
TOC @ SURFACE.

PROPOSED COMPLETION INTERVAL:

DELAWARE - 5030' - 5360'

2 3/8" DUOLINE PVC LINED TUBING SET @ 5000' WITH A
PLASTIC COATED BAKER LOC-SET PACKER

PRODUCTION CASING:
15.5#, J-55, 5 1/2" CSG, SET @ 5500'.
TOC @ SURFACE.

TD= 5500'