JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

September 28, 2010

Case 14563

Florene Davidson
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Florene:

Enclosed for filing, on behalf of Lime Rock Resources A, L.P., is an application to approve a waterflood project, together with a proposed advertisement. The advertisement has also been e-mailed to the Division. Please set this matter for the October 28, 2010 Examiner hearing. Thank you.

Very truly yours,

James Bruce

Attorney for Lime Rock Resources A, L.P.

Edge Petroleum Operating Co., Inc. a subsidiary of Mariner Energy
2000 West Sam Houston Parkway, Suite 2000
Houston, Texas 77042

Finney Oil Company
P.O. Box 1569
Artesia, New Mexico 88211

I & W Inc.
P.O. Box 98
Loco Hills, New Mexico 88255

Kersey & Company
P.O. Box 1248
Fredericksburg, Texas 78624

Marbob Energy Corp.
P. O. Box 227
Artesia, New Mexico 88211

Navajo Refining Co., Pipeline Division (Injection Well)
P.O. Box 159
Artesia, New Mexico

Three Rivers Operating
1122 S. Capital of Texas Highway, Suite 325
Austin, Texas 78746

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2000 West Sam Houston Parkway, Suite 2000
Houston, Texas 77042

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P.O. Box 159
Artesia, New Mexico

Three Rivers Operating
1122 S. Capital of Texas Highway, Suite 325
Austin, Texas 78746

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

RECEIVED OCD
2010 SEP 29 P 12:54

APPLICATION OF LIME ROCK RESOURCES A, L.P. FOR APPROVAL OF A WATERFLOOD PROJECT IN THE SAN ANDRES FORMATION, EDDY COUNTY, NEW MEXICO.

Case No. 14563

APPLICATION

Lime Rock Resources A, L.P. applies for an order approving a waterflood project in the San Andres formation for its proposed Northwest State Cooperative Waterflood Project, and in support thereof, states:

1. Applicant proposes to convert to injection the following wells located in Eddy County, New Mexico:

(a) The Northwest 29 State Well No. 14, located 330 feet from the south line and 990 feet from the east line of Section 29, Township 17 South, Range 28 East, N.M.P.M.

(b) The Northwest 31 State Well No. 28, located 973 feet from the north line and 956 feet from the east line of Section 31, Township 17 South, Range 28 East, N.M.P.M.

(c) The Northwest 31 State Well No. 9, located 2310 feet from the north line and 270 feet from the east line of Section 31, Township 17 South, Range 28 East, N.M.P.M.

(d) The Northwest 32 State Well No. 20, located 330 feet from the north line and 330 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(e) The Northwest 32 State Well No. 1, located 990 feet from the north line and 990 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(f) The Northwest 32 State Well No. 17, located 2237 feet from the north line and 990 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(g) The Northwest 32 State Well No. 3, located 1650 feet from the north line and 1650 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(h) The Northwest 32 State Well No. 6, located 2310 feet from the ~~north~~ SOUTH line and 990 feet from the west line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(i) The Northwest 32 State Well No. 7, located 990 feet from the ~~north~~ SOUTH line and 990 feet from the west line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(j) The Northwest 6 State Well No. 15, located 430 feet from the north line and 330 feet from the east line of Section 6, Township 18 South, Range 28 East, N.M.P.M.

A Form C-108 for the project is attached hereto as Exhibit A.

2. Injection will be into the San Andres zone of the Artesia Queen-Grayburg-San Andres Pool, at the approximate depths of 2400-3400 feet subsurface.

3. The waterflood project will be a cooperative project which will benefit the following lands:

(a) The Northwest Artesia Unit Agreement, covering the following state lands:

Township 17 South, Range 28 East, N.M.P.M.
Section 29: SE¼SE¼
Section 31: SE¼SE¼ and E½NE¼
Section 32: NE¼, SW¼, NE¼SE¼, and S½SE¼

Township 18 South, Range 28 East, N.M.P.M.
Section 6: NE¼NE¼

(b) State Lease 647-405 insofar as it covers:

Township 17 South, Range 28 East, N.M.P.M.
Section 31: NE¼NE¼

(c) State Lease B-5862-21 insofar as it covers:

Township 17 South, Range 28 East, N.M.P.M.
Section 32: NW¼NW¼

(d) State Lease E-6942-2 insofar as it covers:

Township 17 South, Range 28 East, N.M.P.M.
Section 32: SW¼NW¼

(e) State Lease E-1717-3 insofar as it covers:

Township 17 South, Range 28 East, N.M.P.M.
Section 32: NW¼SE¼

4. Applicant requests that the order entered by the Division contain a provision to administratively approve an expansion of this project.

5. The granting of this application will prevent waste and protect correlative rights.

WHEREFORE, applicant requests that, after notice and hearing, the Division enter its order approving this application.

Respectfully submitted,

James Bruce
Post Office Box 1056
Santa Fe, New Mexico 87504
(505) 982-2043

Attorney for Lime Rock Resources A, L.P.

PROPOSED ADVERTISEMENT

RECEIVED OCD

2010 SEP 29 P 12: 54

Case No. 14563 :

Application of Lime Rock Resources A, L.P. to institute a cooperative waterflood project in the San Andres formation, Eddy County, New Mexico. Applicant seeks approval to institute a cooperative waterflood project by the injection of produced water into the San Andres formation at the approximate depths of 2400-3400 feet subsurface into the following ten wells:

(a) The Northwest 29 State Well No. 14, located 330 feet from the south line and 990 feet from the east line of Section 29, Township 17 South, Range 28 East, N.M.P.M.

(b) The Northwest 31 State Well No. 28, located 973 feet from the north line and 956 feet from the east line of Section 31, Township 17 South, Range 28 East, N.M.P.M.

(c) The Northwest 31 State Well No. 9, located 2310 feet from the ~~north~~ SOUTH line and 270 feet from the east line of Section 31, Township 17 South, Range 28 East, N.M.P.M.

(d) The Northwest 32 State Well No. 20, located 330 feet from the north line and 330 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(e) The Northwest 32 State Well No. 1, located 990 feet from the north line and 990 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(f) The Northwest 32 State Well No. 17, located 2237 feet from the north line and 990 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(g) The Northwest 32 State Well No. 3, located 1650 feet from the north line and 1650 feet from the east line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(h) The Northwest 32 State Well No. 6, located 2310 feet from the ~~north~~ SOUTH line and 990 feet from the west line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(i) The Northwest 32 State Well No. 7, located 990 feet from the ~~north~~ SOUTH line and 990 feet from the west line of Section 32, Township 17 South, Range 28 East, N.M.P.M.

(j) The Northwest 6 State Well No. 15, located 430 feet from the north line and 330 feet from the east line of Section 6, Township 18 South, Range 28 East, N.M.P.M.

The project area will be a cooperative area encompassing State of New Mexico leases covering the following described acreage:

Township 17 South, Range 28 East, N.M.P.M.
Section 29: SE¼SE¼ — NWAU
Section 31: E½E½ — NWAU on NE/SE NE/NE Sec in B 647-405
Section 32: NE¼, W½NW¼, and S½ — NWAU — NW/NW in B 5862-21, SW/NW in E 6942-2

NE SW in NWAU
NE/SE S/2 SE/4 in NWAU
NW SE in E 1188-3

Township 18 South, Range 28 East, N.M.P.M.
Section 6: NE¼NE¼ — NWAL

The project area is centered approximately 12 miles east-southeast of Artesia, New Mexico.

APPLICATION FOR AUTHORIZATION TO INJECT

Lime Rock Resources, LLC
Eddy County, New Mexico

List of Wells for this Application

Northwest 29 State #14
Section 29, T-17S, R-28E
Location: 330' FSL and 990' FEL
API #: 30-015-30824
Eddy County, New Mexico

Northwest 32 State #20
Section 32, T-17S, R-28E
Location: 330' FNL and 330' FEL
API #: 30-015-30892
Eddy County, New Mexico

Northwest 32 State #1
Section 32, T-17S, R-28E
Location: 990' FNL and 990' FEL
API #: 30-015-30609
Eddy County, New Mexico

Northwest 31 State #28
Section 31, T-17S, R-28E
Location: 973' FNL and 956' FEL
API #: 30-015-30893
Eddy County, New Mexico

Northwest 32 State #17
Section 32, T-17S, R-28E
Location: 2237' FNL and 990' FEL
API #: 30-015-31933
Eddy County, New Mexico

Northwest 32 State #3
Section 32, T-17S, R-28E
Location: 1650' FNL and 1650' FEL
API #: 30-015-30684
Eddy County, New Mexico

EXHIBIT A

Northwest 31 State #9
Section 31, T-17S, R-28E
Location: 2310' FNL and 270' FEL
API #: 30-015-30849
Eddy County, New Mexico

Northwest 32 State #6
Section 32, T-17S, R-28E
Location: 2310' FNL and 990' FWL
API #: 30-015-30777
Eddy County, New Mexico

Northwest 32 State #7
Section 32, T-17S, R-28E
Location: 990' FNL and 990' FWL
API #: 30-015-30685
Eddy County, New Mexico

Northwest 6 State #15
Section 6, T-18S, R-28E
Location: 430' FNL and 330' FEL
API #: 30-015-30785
Eddy County, New Mexico

Requirements per Form C-108

I. Purpose: Lime Rock plans to commence injection into the above listed permitted wells for waterflood purposes.

II. Operator: Lime Rock Resources A, L.P.
1111 Bagby, Ste. 4600
Houston, Texas 77002
Contact Party: Chuck L. Reagan
Phone: (713) 292-9548

III. Well Data:
The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

Well Number:
(1) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 29 State #14
Operator: Lime Rock Resources
Section 29, T-17-S, R-28E
Location: 330' FSL and 990' FEL, Unit P
API #: 30-015-30824
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Surface Casing
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 531 feet
Cemented with: 382 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 700 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,235'

INJECTION INTERVAL
San Andres

INJECTION WELL DATA
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,346'
Other Type of Tubing/Casing Seal (if applicable): N/A

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2436', 51, 65, 68, 79, 87, 2502, 10, 32, 40, 63, 77, 80, 90, 2618, 34, 46, 60, 76, 81, 90, 98, 2703

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower:	Glorieta 3,321'
Next higher:	Grayburg 1,606'

(2) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 32 State #20
Operator: Lime Rock Resources
Section 32, T-17-S, R-28E
Location: 330' FNL and 330' FEL, Unit A
API #: 30-015-30892
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

<u>Surface Casing</u>
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 505 feet

Cemented with: 350 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 650 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,205'

INJECTION WELL DATA
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,377'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2446', 52, 60, 64, 76, 95, 2508, 10, 21, 32, 34, 42, 62, 73, 2575, 87, 92, 2630, 46, 70, 78, 86, 94, 2704, 10, 20, 29

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower: Glorieta
3,339'

Next higher: Grayburg
1,647'

(3) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 32 State #1
Operator: Lime Rock Resources
Section 32, T-17-S, R-28E
Location: 990' FNL and 990' FEL, Unit A
API #: 30-015-30609
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Surface Casing
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 418 feet
Cemented with: 325 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 800 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,197'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,366'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2456', 58, 70, 72, 74, 83, 86, 92, 2524, 50, 61, 76, 83, 94, 2611, 18, 66, 90, 98, 2706, 12, 20, 23, 29 and 36

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower:	Glorieta 3,341'
Next higher:	Grayburg 1,650'

(4) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 31 State #28
Operator: Lime Rock Resources
Section 31, T-17-S, R-28E
Location: 973' FNL and 959' FEL, Unit A
API #: 30-015-30893
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

<u>Surface Casing</u>
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 452 feet

Cemented with: 325 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 600 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 2,802'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,196'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2286, 2304, 28, 30, 36, 40, 46, 52, 62, 68, 80, 2428, 38, 40, 62, 66, 84, 2502, 04, 18, 22, 32, 34, 44, 48

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower: Glorieta
3,302'

Next higher: Grayburg
1,592'

(5) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 32 State #17
Operator: Lime Rock Resources
Section 32, T-17-S, R-28E
Location: 2237' FNL and 990' FEL, Unit H
API #: 30-015-31933
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Surface Casing
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 508 feet
Cemented with: 375 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 625 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,225'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,377'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2467, 72, 84, 96, 2500, 14, 22, 36, 47, 67, 77, 81, 90, 2626, 34, 76, 94, 2723, 25, 40, 47, 55, 66, 78, 2834, 41, 47, 67, 72

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower:	Glorieta 3,356'
Next higher:	Grayburg 1,636'

(6) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 32 State #3
Operator: Lime Rock Resources
Section 32, T-17-S, R-28E
Location: 1650' FNL and 1650' FEL, Unit G
API #: 30-015-30684
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

<u>Surface Casing</u>
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 375 feet

Cemented with: 375 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 625 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,200'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,374'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2464', 66, 81, 87, 92, 2501, 26, 30, 36, 60, 66, 72, 93, 97, 2622, 28, 62, 81, 2704, 12, 21, 26, 33, 36, 41, 50

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower: Glorieta
3,341'

Next higher: Grayburg
1,620'

(7) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 31 State #9
Operator: Lime Rock Resources
Section 31, T-17-S, R-28E
Location: 2310' FSL and 270' FEL, Unit I
API #: 30-015-30849
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Surface Casing
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 518 feet
Cemented with: 350 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 600 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,186'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,354'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2444', 56, 70, 75, 83, 2514, 31, 36, 46, 69, 97, 2600, 05, 10, 25, 32, 42, 50, 56, 58, 69, 85, 2708, 10, 18, 29, 38, 68, 75, 82

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower:	Glorieta 3,336'
Next higher:	Grayburg 1,614'

(8) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 32 State #6
Operator: Lime Rock Resources
Section 32, T-17-S, R-28E
Location: 2310' FSL and 990' FWL, Unit L
API #: 30-015-30777
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

<u>Surface Casing</u>
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 515 feet

Cemented with: 350 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 650 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,200'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,344'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2434', 38, 45, 50, 51, 55, 65, 67, 72, 90, 93, 2509, 12, 15, 20, 25, 30, 35, 40, 49, 51, 58, 68, 70 and 72

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower: Glorieta
3,331'

Next higher: Grayburg
1,610'

(9) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 32 State #7
Operator: Lime Rock Resources
Section 32, T-17-S, R-28E
Location: 990' FSL and 990' FWL, Unit M
API #: 30-015-30685
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

Surface Casing
Hole Size: 12 ¼"
Casing Size: 8 5/8"
Depth Set: 490 feet
Cemented with: 450 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 650 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,215'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,382'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.

Perforations: 2472, 76, 80, 91, 96, 2507, 22, 30, 40, 53, 62, 70, 78, 86, 2600, 07, 27, 34, 40, 46, 83, 91, 2703, 14, 31, 39, 49, and 62

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower: Glorieta
3,359'

Next higher: Grayburg
1,650'

(10) Well Name & Number; Operator; Well Location by Section, Township and Range; and footage location within the section.

Northwest 6 State #15
Operator: Lime Rock Resources
Section 6, T-18-S, R-28E
Location: 990' FSL and 990' FWL, Unit A
API #: 30-015-30785
Eddy County, New Mexico

Casing strings used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.

<u>Surface Casing</u>
Hole Size: 12 ¼"
Casing Size: 8 5/8"

Depth Set: 501 feet
Cemented with: 350 sacks
Top of Cement: surface
Method Determined: Circulated

Intermediate Casing

Production Casing
Hole Size: 7 7/8"
Casing Size: 5 ½"
Cemented with: 600 sacks
Top of Cement: surface
Method Determined: Circulated
Total Depth: 3,223'

Injection Well Data
A description of the tubing to be used including its size, lining material, and setting depth.
Tubing Size: 2 7/8"
Lining Material: TK70ST = 10-20 ml
Type of Packer: Retrievable
Packer Setting Depth: 2,471'
Other Type of Tubing/Casing Seal (if applicable): N/A

The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

Is this a new well drilled for injection? No
If no, for what purpose was the well originally drilled?
The well was originally drilled and completed as a Queen, Grayburg, San Andres producer.

The name of the injection formation and, if applicable, the field or pool name.
San Andres

Field or Pool name:
Artesia (QN-GB-SA)

Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.
Perforations: 2561, 63, 68, 74, 97, 99, 2610, 18, 20, 29, 52, 57, 64, 80, 96, 98, 2704, 16, 30, 55, 63, 66, 84, and 91

Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Next lower: Glorieta
3,415'

Next higher: Grayburg
1,696'

IV. Is this an expansion of an existing project? -Yes

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review. See attached maps that identify all wells and leases within two miles of all proposed injection wells with a one-half mile circle drawn around each injection well.

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

See the enclosed spreadsheet for a tabulation of data for the wells within the area of review. As shown on the enclosed spreadsheet there are 117 wells within the area of review that penetrate the proposed injection zone. Wellbore schematics are included herein for the 34 plugged wells within the area of review.

VII. DATA SHEET - Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
   Average – 150 BWPD
   Max – 600 BWPD

2. This will be a closed system

3. Proposed average and maximum injection pressure;
   a. Proposed average injection pressure: 500 psi.
   b. The proposed maximum injection pressure is 1,500 (0.6 psi/ft x 2500')

4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water;
   Will be disposing of produced water

5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells etc).
   Injection is NOT for disposal.

VIII. Geological Data

Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth.

The proposed waterflood will inject into a portion of the Permian age San Andres Formation between average depths of 2,400' and 3,400'. This portion of the san Andres is predominately a dolomitic interval with the 400' average gross interval containing porosity ranging from 5 to 10% related to 1) intercrystalline and finely crystalline dolomite and 2.) secondary moldic/vuggy in the dolomitized skeletal wackestones and packstones. The intent of the waterflood is to capture additional oil production from the formation.

Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

In the area of review, fresh water occurs down to a depth of approximately 150 feet. No know fresh water sources are underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

Proposed to perforate, acidize and fracture stimulate.

X. ATTACH APPROPRIATE LOGGING AND TEST DATA ON THE WELLS

The complete well logs for this well are on file with the Oil Conservation Division. Attached for reference is an excerpt o the NW State #20 Triple combo Log.

XI. ANALYSIS OF FRESHWATER WELLS

There are no freshwater wells producing within one mile of the proposed injection well(s).

XII. APPLICANTS FOR DISPOSAL WELLS MUST MAKE AN AFFIRMATIVE STATEMENT THAT THEY HAVE EXAMINED AVAILABLE GEOLOGIC AND ENGINEERING DATA AND FIND NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE DISPOSAL ZONE AND ANY UNDERGROUND SOURCES OF DRINKING WATER.

Geologic and engineering data have been examined and no evidence of open faults or any other hydrological connection between the injection zone and any fresh water aquifer as been found.

XIII. Proof of Notice List

(A.) Surface Owner(s):

Northwest 29 State #14
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, New Mexico 87501

Northwest 32 State #20
John R. Gray, LLC

Northwest 32 State #1
John R. Gray, LLC

Northwest 31 State #28
John R. Gray, LLC

Northwest 32 State #17
John R. Gray, LLC

Northwest 32 State #3
John R. Gray, LLC

Northwest 31 State #9
John R. Gray, LLC

Northwest 32 State #6
John R. Gray, LLC

Northwest 32 State #7
John R. Gray, LLC

Northwest 6 State #15
John R. Gray, LLC

John R. Gray, LLC
P.O. Box 1182
Artesia, New Mexico 88211

(B.) Offset Leasehold Operators within ½ mile of proposed injection well:

BP America Production Company
Attention: Craig Ferguson
501 Westlake Park Blvd.
Houston, Texas 77079

George A. Chase, Jr. and G and C Services
P.O. Box 1618
Artesia, New Mexico 88211

Chesapeake Operating, Inc.
P. O. Box 18496
Oklahoma City, Oklahoma 73154-0496

CFM Oil Company
d/b/a Louis & Judy Fulton
P.O. Box 1176
Artesia, New Mexico 88210

ConocoPhillips Company
Attention: Land Department
P.O. Box 2197
Houston, Texas 77252

Devon Energy Production Co., L.P.
20 North Broadway
Oklahoma City, Oklahoma 73102

Doral Energy Corp.
Attention: Marty Bloodworth
415 W. Wall Street, Suite 500
Midland, Texas 79701

Edge Petroleum Operating Co., Inc. a subsidiary of Mariner Energy
2000 West Sam Houston Parkway, Suite 2000
Houston, Texas 77042

Finney Oil Company
P.O. Box 1569
Artesia, New Mexico 88211

I & W Inc.
P.O. Box 98
Loco Hills, New Mexico 88255

Kersey & Company
P.O. Box 1248
Fredericksburg, Texas 78624

Marbob Energy Corp.
P. O. Box 227
Artesia, New Mexico 88211

Navajo Refining Co., Pipeline Division (Injection Well)
P.O. Box 159
Artesia, New Mexico

Three Rivers Operating
1122 S. Capital of Texas Highway, Suite 325
Austin, Texas 78746

The parties listed above have been sent by certified mail a copy of Form C-108 Application for Injection submitted by Lime Rock Resources. Please see attached

(C.) Affidavit of Publication – N/A

XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

NAME: _____ TITLE: _____

SIGNATURE: _____ DATE: _____

E-MAIL ADDRESS: _____

PHONE: _____

NAME: _____ TITLE: _____

SIGNATURE: _____ DATE: _____

E-MAIL ADDRESS: _____

PHONE: _____

Area of Review Spreadsheet

09/14/09

No	Lease	Well #	Sec	TWN	RGE	N/S Dir	E/W Dir	Well Type	Status	Spud Date	Sur Hole	Surf Csg Size	SX Cmt	TOC	Prod Hole	Prod Csg Size	SX Cmt	TOC	TD	Completion Date
1	WILLIAMS A FEDERAL	1Z	29	17S	28E	590 FSL	2185 FWL	Oil	Active	9/15/03	12 1/4"	8 5/8"	375	Circ	7 7/8"	5 1/2"	750	Circ	3,546	11/3/03
2	STATE B GAS COM	1	29	17S	28E	1980 FSL	1980 FEL	Gas	Active	2/1/71	17 1/2	13.375"	500	Plug	121/4"	9 5/8"	150	Plug	12,431	8/14/53
											8 3/4"	7"	700	Plug						
3	RED LAKE 29 I STATE	1	29	17S	28E	1650 FSL	990 FEL	Oil	Active	10/5/04	12 1/4"	8 5/8"	350	"C"	7 7/8"	5 1/2"	550	"C"	3,800	3/3/05
4	NW STATE Producer	14	29	17S	28E	330 FSL	990 FEL	Oil	Active	1/3/00	12 1/4"	8 5/8"	382	"C"	7 7/8"	5 1/2"	700	"C"	3,240	2/1/00
5	NW STATE Producer	19	29	17S	28E	917 FSL	330 FEL	Oil	Active	4/7/00	12 1/4"	8 5/8"	350	"C"	7 7/8"	5 1/2"	550	"C"	3,192	5/2/00
~~6~~	~~NORTHWEST ARTESIA UNIT~~	~~1/196~~	~~29~~	~~17S~~	~~28E~~	~~330 FSL~~	330 FEL	Oil	~~Active~~	~~6/18/63~~	~~9 5/8"~~	~~7"~~	~~125~~	~~Plug~~	~~6 1/4"~~	~~4 1/2"~~	75	Plug	1,940	~~6/24/63~~
7	DELHI B STATE	1	28	17S	28E	800 FSL	800 FWL	Oil	Active	3/26/75	17 1/2"	13 3/8"	600	"C"	12 1/4"	9 5/8"	500	"C"	3,630	4/4/81
8	DELHI B STATE OPEN SA-GLOR	2	28	17S	28E	330 FSL	990 FWL	Oil	~~Active~~ Plugged	5/29/61	10"	8 5/8"	165	Circ	7 3/4"	4 1/2"	100		6,048	7/28/61
~~9~~	~~DELHI STATE~~	~~2~~	~~33~~	~~17S~~	~~28E~~	~~330 FNL~~	~~990 FWL~~	Oil	~~Plugged~~	~~10/4/61~~	~~10"~~	~~8 5/8"~~	~~35~~	~~Circ~~	~~8"~~	~~4 1/2"~~	~~75~~		~~1,970~~	~~10/20/61~~
~~10~~	~~DELHI STATE~~	~~5~~	~~33~~	~~17S~~	~~28E~~	~~330 FNL~~	~~330 FWL~~	Oil	~~Active~~	~~11/20/79~~	~~11~~	~~8 5/8"~~	~~288~~	~~Circ~~	~~7 7/8"~~	~~5 1/2"~~	~~660~~	~~Circ~~	~~2,120~~	~~12/5/79~~
~~11~~	~~DELHI STATE~~	4	33	17S	~~28E~~	~~969 FNL~~	~~330 FWL~~	~~Oil~~	~~Active~~	5/11/76	10	8 5/8"	110	"C"	~~6 1/4"~~	~~4 1/2"~~	~~475~~	"C"	~~2,086~~	6/30/76
~~12~~	~~DELHI STATE~~	~~1~~	~~33~~	~~17S~~	~~28E~~	~~990 FNL~~	~~990 FWL~~	~~Oil~~	~~Plugged~~	~~1/29/57~~	NA	NA	NA		8"	4"	294	~~Circ~~	~~2,250~~	~~2/13/57~~
12.5	DELHI A STATE	1	33	17S	28E	990 FNL	980 FWL	Oil	Active	3/6/60	12 1/4"	8 5/8"	300	Circ	7 7/8"	4 1/2"	950		6,084	3/28/60
13	WASHINGTON 33 STATE	6	33	17S	28E	790 FNL	1650 FWL	Oil	Active	8/8/98	12 1/4"	8 5/8"	325	Circ	7 7/8"	5 1/2"	760	Circ	4,000	8/28/98
14	EMPIRE ABO UNIT	7	33	17S	28E	1650 FNL	970 FWL	Oil	Active	8/27/98	12 1/4"	8 5/8"	325	Circ	7 7/8"	5 1/2"	810	Circ	3,950	9/5/98
15	EMPIRE ABO UNIT	29A	33	17S	28E	1980 FNL	620 FWL	Oil	Active	4/13/60	11"	8 5/8"	450	Circ	7 7/8"	4 1/2"	800		6,150	5/6/60
16	WASHINGTON 33 STATE	8	33	17S	28E	2267 FNL	330 FWL	Oil	Active	7/30/98	12 1/4"	8 5/8"	325	Circ	7 7/8"	5 1/2"	760	Circ	4,000	9/1/98
17	NW STATE	20	32	17S	28E	330 FNL	330 FEL	Oil	Active	4/14/00	12 1/4"	8 5/8"	350	Circ	7 7/8"	5 1/2"	650	Circ	3,210	5/10/00
18	NW STATE	16	32	17S	28E	330 FNL	1650 FEL	Oil	Active	4/24/00	12 1/4"	8 5/8"	350	Circ	7 7/8"	5 1/2"	600	Circ	3,210	5/16/00
19	Enron State	1	32	17S	28E	530 FNL	1650 FWL	Oil	Active	5/2/01	12 1/4"	8 5/8"	325	Circ	7 7/8"	5 1/2"	900	Circ	4,000	7/1/01
20	EMPIRE ABO UNIT	26C	32	17S	28E	990 FNL	1650 FWL	Oil	In-Active	1/18/54	17 1/2"	13 3/8"	550	Circ	7 7/8"	5 1/2"	200		10,300	5/23/54
21	NW STATE	4	32	17S	28E	1140 FNL	2277 FEL	Oil	Active	9/6/99	12 1/4"	8 5/8"	350	"C"	7 7/8"	5 1/2"	650	"C"	3,200	10/8/99
22	EMPIRE ABO UNIT	27C	32	17S	28E	990 FNL	1900 FEL	Oil	In-Active	6/5/64	11"	8 5/8"	175	Circ	7 7/8"	4 1/2"	830		6,148	6/23/64
~~23~~	~~NORTHWEST ARTESIA UNIT~~	~~3~~	~~32~~	~~17S~~	~~28E~~	~~990 FNL~~	~~1650 FEL~~	~~Oil~~	~~Active~~	~~6/16/63~~	8 5/8"	7"	125	Circ	~~6 1/4"~~	~~4 1/2"~~	~~75~~		~~1,984~~	~~6/22/63~~

Area of Review Spreadsheet

09/14/09

No	Lease	Well #	Sec	TWN	RGE	N/S Dir	E/W Dir	Well Type	Status	Spud Date	Sur Hole	Surf Csg Size	SX Cmt	TOC	Prod Hole	Prod Csg Size	SX Cmt	TOC	TD	Completion Date
24	NW STATE	1	32	17S	28E	990 FNL	990 FEL	Oil	Active	5/22/99	12 1/4"	8 5/8"	325	Circ	7 7/8"	5 1/2"	800	Circ	3,205	6/26/99
~~25~~	~~NORTHWEST ARTESIA UNIT~~	~~2~~	~~32~~	~~17S~~	~~28E~~	~~890 FNL~~	~~330 FEL~~	~~Oil~~	~~Plugged~~	~~1/27/62~~	~~9 5/8"~~	~~7"~~	~~100~~	~~Circ~~	~~6 1/4"~~	~~4 1/2"~~	150		~~1,971~~	~~1/31/62~~
25.5	Empire Abo Unit "E"	28	32	17S	28E	1160 FNL	330 FEL	Oil	Plugged	11/17/60	11"	8 5/8"	300	Circ	7 7/8"	5 1/2"	150		6,100	11/27/60
~~26~~	~~RAMPO~~	~~38~~	~~31~~	~~17S~~	~~28E~~	2310 FSL	330 FWL	~~Oil~~	~~Active~~	~~6/16/55~~	~~10"~~	~~8 5/8"~~	~~50~~	~~Circ~~	~~7 7/8"~~	~~5 1/2"~~	50		~~1,691~~	~~7/26/55~~
27	NW STATE	2	32	17S	28E	1709 FNL	385 FEL	Oil	Active	8/6/99	12 1/4"	8 5/8"	325	Circ	7 7/8"	5 1/2"	750	Circ	2,850	9/3/99
~~28~~	~~NORTHWEST ARTESIA UNIT~~	~~6~~	~~32~~	~~17S~~	~~28E~~	~~1980 FNL~~	~~330 FEL~~	~~Oil~~	Injection	~~11/1/61~~	~~10"~~	~~8 5/8"~~	~~75~~	~~Circ~~	~~8"~~	~~4 1/2"~~	~~300~~		~~1,973~~	~~11/24/61~~
29	EMPIRE ABO UNIT "F"	28	32	17S	28E	2310 FNL	330 FEL	Oil	Plugged	8/26/60	11"	8 5/8"	300	Circ	7 7/8"	5 1/2"	150		6,176	9/8/60
30	DANCER 32 STATE COM	1	32	17S	28E	1728 FNL	916 FEL	Oil	Active	3/17/96	17 1/2"	13 3/8	600	Circ	12 1/4	9 5/8	925	Circ	10,610	5/11/96
30	DANCER 32 STATE COM	1	32	17S	28E	1728 FNL	916 FEL	Oil	Active	3/17/96	17 1/2"	13 3/8"	600	Circ	8 3/4	5 1/2	1300	CBL	10,610	5/11/96
31	NW STATE	17	32	17S	28E	2237 FNL	990 FEL	Oil	Active	9/13/01	12 1/4"	8 5/8"	375	Circ	7 7/8"	5 1/2"	625	Circ	3,225	11/1/01
32	NW STATE	3	32	17S	28E	1650 FNL	1650 FEL	Oil	Active	8/16/99	12 1/4"	8 5/8"	375	Circ	7 7/8"	5 1/2"	625	Circ	3,205	9/10/99
~~33~~	~~NORTHWEST ARTESIA UNIT~~	~~5~~	~~32~~	~~17S~~	~~28E~~	~~1980 FNL~~	~~1650 FEL~~	~~Oil~~	~~Active~~	~~3/29/62~~	~~10"~~	~~8 5/8"~~	~~50~~	~~Circ~~	~~8"~~	~~4 1/2"~~	~~75~~		~~1,955~~	~~4/21/62~~
34	EMPIRE ABO UNIT "F"	27	32	17S	28E	2310 FNL	1650 FEL	Oil	Plugged	9/10/60	11"	8 5/8"	450	Circ	7 7/8"	5 1/2"	150		6,108	9/27/60
35	NW STATE	18	32	17S	28E	2272 FNL	2273 FEL	Oil	Active	2/26/02	12 1/4"	8 5/8"	375	Circ	7 7/8"	5 1/2"	800	Circ	3,215	5/1/02
36	AA STATE	1	32	17S	28E	2280 FNL	1980 FWL	Oil	Active	7/30/60	11"	8 5/8"	550	Circ	7 7/8"	4 1/2"	1000	920	6,171	8/24/60
~~37~~	~~STATE 32~~	1	~~32~~	~~17S~~	~~28E~~	~~1350 FSL~~	~~1650 FEL~~	~~Oil~~	~~Active~~	~~2/7/58~~	~~10 3/4"~~	~~8 5/8"~~	~~50~~	~~Circ~~	~~8"~~	~~5 1/2"~~	~~150~~		~~1,650~~	~~3/12/58~~
38	JEFFERS STATE	1	32	17S	28E	2141 FSL	1665 FEL	Oil	Active	1/27/00	12 1/4"	8 5/8"	375	Circ	7 7/8"	5 1/2"	800	Circ	3,220	3/14/00
~~39~~	~~State 32~~	~~2~~	~~32~~	~~17S~~	~~28E~~	~~1980 FSL~~	~~1980 FEL~~	~~Oil~~	~~Active~~	~~7/29/59~~	~~NA~~	~~NA~~	~~NA~~	~~NA~~	~~9 5/8"~~	~~7"~~	~~200~~		~~2,075~~	~~8/6/59~~
40	EMPIRE ABO UNIT "G"	27B	32	17S	28E	1650 FSL	1961 FEL	Oil	Plugged	6/7/60	11"	8 5/8"	450	Circ	7 7/8"	4 1/2"	850		6,165	6/18/60
41	NORTHWEST ARTESIA UNIT	7	32	17S	28E	2310 FSL	660 FEL	Oil	In-Active	12/17/53	10"	7'	25	??	6 1/4"	4 1/2"	725	Circ	2,500	1/22/54
42	KERSEY STATE	1	32	17S	28E	2018 FSL	330 FEL	Oil	Active	5/16/00	12 1/4"	8 5/8"	350	Circ	7 7/8"	5 1/2"	900	"C"	4,075	7/14/00
43	KERSEY STATE	3	32	17S	28E	1650 FSL	990 FEL	Oil	Active	7/2/07	12 1/4"	8 5/8"	375	"C"	7 7/8"	5 1/2"	950	"C"	3,950	8/7/07
44	EMPIRE ABO UNIT "G"	28C	32	17S	28E	1650 FSL	660 FEL	Oil	Plugged	5/16/00	11"	8 5/8"	600	Circ	7 7/8"	4 1/2"	850		4,075	6/4/60

NW State C-108 Data Sheet

No.#	Well Name	Legals Sec 32, T17S R28E	API # 30-015-	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
1	NW St. #6	1090 FSL 2126 FWL, K	30815	SDX	Active	1/4/2000	3310	2523-2859	12 1/4	8 5/8	461	350	Surf	Circ	See Diagram
									7 7/8	5 1/2	3302	600	Surf	Circ	
2	NW St. #5	1900 FSL 2146 FWL, K	30781	SDX	Active	12/7/1999	3190	2464-2674	12 1/4	8 5/8	520	350	Surf	Circ	
								2802-56	7 7/8	5 1/2	3181	600	Surf	Circ	
3	Empire Abo Unit #25 B	2280 FNL 978 FWL, E	01671	BP	TA	9/60	6013	5830-5920	11	8 5/8	990	425	Surf	1" w/75 sx	5830-5920 sqzd
								5830 - 80	7 7/8	5 1/2	6012	850	1156	Calc 75%	5830 sqzd w/250 sx
								5611 - 5805							CIBP @ 5580 & 6550
4	Empire Abo Unit #26	2280 FNL 1980 FWL, F	01657	BP	TA	8/60	6171	5844 - 92		8 5/8	1007	550	Surf	Circ	
								5926- 82		4 1/2	6171	1000	920	Temp Surv	
															CIBP @ 5822' w/35' cmt
5	NW State #18	2272 FNL 2273 FEL, G	31934	SDX	Active	5/02	3215	2472 - 2752	12 1/4	8 5/8	485	375	Surf	Circ	
									7 7/8	5 1/2	3208	800	Surf	Circ	
6	NWAU #5	1980 FNL 1650 FEL, G	02312	SDX	Active	4/62	1955	1911 - 17	*11	8 5/8	507	50	312	C 75%	*Assumed
									*7 7/8	4 1/2	1955	75	1629	C 75%	
7	Empire Abo Unit #27G	2310 FNL 1650 FEL, G	01663	BP	TA	9/60	6100	5980 - 90		8 5/8	1003	450	Surf	Circ	TOC ?
								6041 - 68		5 1/2	6108	170 units + 150 sx	Surf	Reported	
8	NWAU #7	2310 FSL 660 FEL, I	01672	SDX	TA	12/78	2250	1933 - 63	*10	7	478	25	389	Calc 75%	
								CIBP 1890'		4 1/2	2206	725	Surf	Circ	
9	Empire Abo Unit #28C	1650 FSL 660 FEL, I	01669	BP	Active	6/60	6250	6032 - 72	11	8 5/8	1304	600	Surf	Circ	
								5753 - 6937		4 1/2	6250	850	Surf	Circ	CIBP 5970
10	Jeffers State #1	2141 FSL 1665 FEL J	30887	SDX	Active	3/2000	3220	2747 - 2852	12 1/4	8 5/8	512	350	Surf	Circ	CRT 2710 Sqzd 75 sx
								2312 - 2632	7 7/8	5 1/2	3212	650	Surf	Circ	
11	State 32 #1	1350 FSL 1650 FEL, J	01655	Hanson	Active	4/58	*2100	1919 - 2039	10 3/4	8 5/8	516	50	295	Cacl 75%	
				Energy					8	5 1/2	2074	150	1267	Calc 75%	
12	State 32 #2	1980 FSL 1980 FEL, J	01656	Hanson	Active	8/59	2038		10	8 5/8	490	50	350		Pulled from 350
				Energy					8	7	1704	200	Surf	Calc 75%	PBTD 1940
															OH 1940 - 1704
13	Empire Abo Unit #27B	1650 FSL 1961 FEL, J	01670	BP	Active	6/60	6163	6036 - 6112	11	8 5/8	860	450	Surf	Circ	CIBP 6020
								5810 - 82	7 7/8	4 1/2	6165	850	Surf		Sqzd TOC 1610 - surf w/425 sx
14	Aspen 32 State Com #1	1370 FSL 1609 FEL, J	34148	Mewbourne	PA	10/19/2005	10400	17 1/2	13 3/8	428	400	S	C		See Diagram
								12 1/4	9 5/8	2660	1100	S	C		
								8 3/4	P&A						
15	NWAU #8	2310 FSL 2105 FWL, K	10818	SDX	PA	5/68	2003	1898 - 1908		8 5/8	462	125	Surf	Calc 75%	See Diagram
										4 1/2	2002	175	1241	Cacl 75%	

EXHIBIT VI

NW State C-108 Data Sheet

No.#	Well Name	Legals Sec 32, T17S R28E	API # 30-015-	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
16	Empire Abo Unit #26B	1650 FSL 2310 FWL, K	01661	BP	Active	3/60	6063	5806 - 6068		8 5/8	748	225	Surf	Circ	
										5 1/2	6099	450	Surf		Sqzd 2504 - surf w/900 sx
17	NW State #6	2310 FSL 990 FWL, L	30777	SDX	Active	11/99	3204	2434 - 2572	12 1/4	8 5/8	515	350	Surf	Circ	
									7 7/8	5 1/2	3200	650	Surf	Circ	
18	NWAU #9	2310 FSL 660 FWL, L	10795	SDX	TA	5/66	1980	1898 - 1927	11	8 5/8	489	100	100	Calc 75%	
									7 7/8	4 1/2	1980	175	1219	Calc 75%	
19	Empire Abo Unit #25A	1650 FSL 990 FWL, L	01662	BP	Active	4/60	6123	5800 - 6060		8 5/8	728	225	Surf	Circ	
										5 1/2	6125	450	Surf		Sqzd 2492 - surf w/850 sx
20	NW State #7	990 FSL 990 FWL, M	30685	SDX	Active	9/99	3220	2472 - 2762	12 1/4	8 5/8	490	450	Surf	Calc 75%	
									7 7/8	5 1/2	3215	850	Surf	Calc 75%	
21	NWAU #12	990 FSL 760 FWL, M	20043	SDX	TA	5/67	1997	1922 - 49		8 5/8	495	100	108	Calc 75%	
										4 1/2	1995	150	1343	Calc 75%	
22	Empire Abo Unit #25	660 FSL 660 FWL, M	01660	BP	Active	3/60	6187	5897 - 6087		8 5/8	770	450	Surf	Circ	
										5 1/2	6187	450	Surf		Sqzd 2622 - surf w/800 sx
23	NWAU #13	990 FSL 2030 FWL, N	10834	SDX	P&A	6/66	2008	1921 - 54	11	8 5/8	493	125	Surf	Calc 75%	See Diagram
									7 7/8	4 1/2	2003	175	1242	Calc 75%	
24	Empire Abo Unit #26A	660 FSL 1980 FWL, N	01659	BP	Active	2/60	6172	5851 - 6118	11	8 5/8	779	280	Surf	Circ	
									7 7/8	5 1/2	6172	400	Surf		Sqzd w/825 sx to surf
25	Empire Abo Unit #261	150 FSL 1400 FWL, N	21539	BP	Active	7/75	6220	5690 - 6064	11	8 5/8	1000	250	90	Temp Surv	Redimix to surf
									7 7/8	5 1/2	6222				DV @ 4016. Stg 1 680
															Stg 2 875 circ to surf
26	NWAU #14	940 FSL 1650 FEL, O	01665	SDX	Active	3/55	2099		*11	8 5/8	485	50	280	Calc 75%	*Assumed
								OH	*7 7/8	5 1/2	1802	25	1650	Calc 75%	
27	Empire Abo Unit #27A	650 FSL 1951 FEL, O	01667	BP	Active	1/60	6215	6134 - 56	11	8 5/8	985	600	Surf	Circ	CIBP 5980
								5714 - 5920	7 7/8	4 1/2	6215	850	75	Reported	
28	Empire Abo Unit #271	330 FSL 1450 FEL, O	21540	BP	TA	6/75	6221	5705 - 6116	12 1/4	8 5/8	1007	550	Surf	Circ	CIBP @ 5655 w/35' cmt
									7 7/8	5 1/2	6255		Surf	Circ	DV @ 4050 Stg 1 450 sx
															Stg 2 600 sx TOC Surf - C
29	Empire Abo Unit #272	330 FSL 2481 FEL, O	22009	BP	Active	7/77	6261	5714 - 6166	11	8 5/8	600	275	Surf	Circ	
									7 7/8	5 1/2	6370		Surf	Circ	DV @ 4382 Stg 1 475 sx
															Stg 2 1080 sx TOC Surf - C
30	NWAU #15	990 FSL 660 FEL, P	01666	SDX	TA	4/54	2102	1968 - 2002	11	8 5/8	750	50	555	Calc 75%	
										4 1/2	2100	335	Surf	Circ	(csg run & cmt 1974)
31	NW State #4	1140 FNL 2277 FEL, B	30734	SDX	Active	10/99	3200	2450 - 2813	12 1/4	8 5/8	525	350	Surf	Circ	
									7 7/8	5 1/2	3195	650	Surf	Circ	
32	Empire Abo Unit #27C	990 FNL 1900 FEL, B	10313	BP	P&A	8/64	6148	3903 - 6074	?	8 5/8	1004	175	Surf	Circ	
									?	4 1/2	6146	820	~1428	Calc 75%	

NW State C-108 Data Sheet

No.#	Well Name	Legals Sec 32, T17S R28E	API # 30-015-	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
33	Empire Abo Unit #28B	660 FSL 660 FEL, P	01668	BP	TA	6/60	6319	5784 - 6140	11	8 5/8	1247	550	Surf	Circ	CIBP 6200
	Aspen?								7 7/8	4 1/2	6319	850	150	Reported	CIBP 5734 w/35' cmt
	Empire Abo Unit #26C	990 FNL 1650 FWL, C	01673	BP	TA	5/54	10300	7392-97	?	13 3/8	554	550	Surf	Circ	PBTD 7464'
							CIBP 5623	5747 - 5907	?	8 5/8	1969		200	Temp Surv	350 sx cmt + 250# Perlite
									?	5 1/2	7505	200	5175	CBL	125 sx plug 7800-7555'
															Sqz to 1800' in 1979 ~ 1325 sx
34	Enron State #2	530 FNL 1650 FWL, D	31530	SDX	Active	7/01	4000	3456 - 3534	12 1/4	8 5/8	390	325	Surf	Circ	
								3768 - 3822	7 7/8	5 1/2	3933	900	Surf	Circ	CIBP 3700'
35	NW State #3	1650 FNL 1650 FEL, G	30684	SDX	Active	9/99	3205	2464 - 2750	12 1/4	8 5/8	524	375	Surf	Circ	
									7 7/8	5 1/2	3200	625	Surf	Circ	
36	NW State #17	2237 FNL 990 FEL, H	31933	SDX	Active	11/01	3225	2467 - 2872	12 1/4	8 5/8	508	375	Surf	Circ	
									7 7/8	5 1/2	3217	625	Surf	Circ	
37	Kersey State #1	2018' FSL 330 FEL, I	30688	SDX	Active	7/00	4075	2330-2608	12 1/4	8 5/8	529	350	Surf	Circ	
								3556-3601	7 7/8	5 1/2	4072	900	Surf	Circ	RBP @ 2884'
38	Empire Abo Unit #27E	330 FNL 2271 FEL, B	02605	BP	Active	4/60	6261	6140 - 97	11	8 5/8	1227	750	Surf	Circ	CIBP 6100'
								5658 - 5930	7 7/8	4 1-/2	6261	900	60	Reported	See Diagram
39	Empire Abo Unit #271A	670 FNL 1700 FEL, B	21736	BP	Active	4/76	6350	5772 - 6260	11	8 5/8	535	200	50		Redimix @ surf
									7 7/8	5 1/2	6350		Surf	Circ	DV @ 4012, Stg 1 400 sx
															Stg 2 830 sx, TOC Surf - C
40	EAU 26 E	330 FNL 1941 FWL, C	02606	BP	Active	7/60	6254	5662 - 6096	11	8 5/8	755	450	Surf	Circ	
									7 7/8	5 1/2	6254	850	695	Reported	

NW State C-108 Data Sheet

No.#	Well Name	Legals Sec 31, T17S R28E	API # 30-015-	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
41	EAU #24	1650 FSL 330 FEL, I	01644	BP	TA	4/60	6106	5606 - 50	11	8 5/8	738	250	Surf	Circ	Pkr @ 5783'
								6024 - 50	7 7/8	5 1/2	6104	450	Surf	Circ	Perfs 6024 - 50 sqzd
															Sqzd 650 sx @ 2900
															TOC Surf - Circ
42	NW #10	735 FSL 330 FEL, P	30760	SDX	Active	11/99	3210	2482 - 2602	12 1/2	8 5/8	495	350	Surf	Calc	
									7 7/8	5 1/2	3192	650	Surf	Calc	
43	NW State #9	2310 FSL 270 FEL, I	30849	SDX	Active	1/00	3195	2444 - 2762	12 1/4	8 5/8	518	350	Surf	Circ	
									7 7/8	5 1/2	3186	600	Surf	Circ	

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No.#	Well Name	Legals	API # 30-015-	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
		Sec 32, T17S R28E													
1	NW St. #8	1090 FSL 2126 FWL, K	30815	SDX	Active	1/4/2000	3310	2523-2859	12 1/4	8 5/8	461	350	Surf	Circ	See Diagram
									7 7/8	5 1/2	3302	600	Surf	Circ	
2	NW St. #5	1900 FSL 2146 FWL, K	30781	SDX	Active	12/7/1999	3190	2464-2674	12 1/4	8 5/8	520	350	Surf	Circ	
								2802-56	7 7/8	5 1/2	3181	600	Surf	Circ	
3	Emprie Abo Unit #25 B	2260 FNL 978 FWL, E	01671	BP	TA	9/60	6013	5830-5920	11	8 5/8	990	425	Surf	1" w/75 sx	5830-5920 sqzd
								5830 - 80	7 7/8	5 1/2	6012	850	1156	Calc 75%	5830 sqzd w/250 sx
								5611 - 5805							CIBP @ 5580 & 6550
4	Empire Abo Unit #26	2280 FNL 1980 FWL, F	01657	BP	TA	8/60	6171	5844 - 92		8 5/8	1007	550	Surf	Circ	
								5926- 82		4 1/2	6171	1000	920	Temp Surv	
															CIBP @ 5822' w/35' cmt
5	NW State #18	2272 FNL 2273 FEL, G	31934	SDX	Active	5/02	3215	2472 - 2752	12 1/4	8 5/8	485	375	Surf	Circ	
									7 7/8	5 1/2	3208	800	Surf	Circ	
6	NWAU #5	1980 FNL 1650 FEL, G	02312	SDX	Active	4/62	1955	1911 - 17	*11	8 5/8	507	50	312	C 75%	*Assumed
									*7 7/8	4 1/2	1955	75	1629	C 75%	
7	Empire Abo Unit #27C	2310 FNL 1650 FEL, G	01663	BP	TA	9/60	6100	5980 - 90		8 5/8	1003	450	Surf	Circ	
								6041 - 68		5 1/2	6108	170 units	Surf	Reported	
											6605X	150 sx			
8	NWAU #7	2310 FSL 660 FEL, I	01672	SDX	TA	12/78	2250	1933 - 63	*10	7	478	25	389	Calc 75%	
								CIBP 1890'		4 1/2	2206	725	Surf	Circ	
9	Empire Abo Unit #28C	1650 FSL 660 FEL, I	01669	BP	Active	6/60	6250	6032 - 72	11	8 5/8	1304	600	Surf	Circ	
								5753 - 5937		4 1/2	6250	850	Surf	Circ	CIBP 5970
10	Jeffers State #1	2141 FSL 1665 FEL J	30887	SDX	Active	3/2000	3220	2747 - 2852	12 1/4	8 5/8	512	350	Surf	Circ	CRT 2710 Sqzd 75 sx
								2312 - 2632	7 7/8	5 1/2	3212	650	Surf	Circ	
11	State 32 #1	1350 FSL 1650 FEL, J	01655	Hanson Energy	Active	4/58	*2100	1919 - 2039	10 3/4	8 5/8	516	50	295	Cacl 75%	
									8	5 1/2	2074	150	1267	Calc 75%	
12	State 32 #2	1980 FSL 1980 FEL, J	01656	Hanson Energy	Active	8/59	2038		10	8 5/8	490	50	350		Pulled from 350
									8	7	1704	200	Surf	Calc 75%	PBTD 1940
															OH 1940 - 1704
13	Empire Abo Unit #27B	1650 FSL 1961 FEL, J	01670	BP	Active	6/60	6163	6036 - 6112	11	8 5/8	860	450	Surf	Circ	CIBP 6020
								5810 - 82	7 7/8	4 1/2	6165	850	Surf		Sqzd TOC 1610' - surf w/425 sx
14	Aspen 32 State Com #1	1370 FSL 1609 FEL, J	34148	Mewbourne	PA	10/19/2005	10400	17 1/2	13 3/8	428	400	S	C		See Diagram
								12 1/4	9 5/8	2660	1100	S	C		
								8 3/4	P&A						
15	NWAU #8	2310 FSL 2105 FWL, K	10818	SDX	PA	5/66	2003	1898 - 1908		8 5/8	462	125	Surf	Calc 75%	See Diagram
										4 1/2	2002	175	1241	Cacl 75%	

SA ISOLATED

NW State C-108 Data Sheet

No.#	Well Name	Legals	API #	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
			30-015-												
		Sec 32, T17S R28E													
16	Empire Abo Unit #26B	1650 FSL 2310 FWL, K	01661	BP	Active	3/60	6083	5806 - 6068		8 5/8	748	225	Surf	Circ	
										5 1/2	6099	450	Surf		Sqzd 2504 - surf w/900 sx
17	NW State #6	2310 FSL 990 FWL, L	30777	SDX	Active	11/99	3204	2434 - 2572	12 1/4	8 5/8	515	350	Surf	Circ	
									7 7/8	5 1/2	3200	650	Surf	Circ	
18	NWAU #9	2310 FSL 660 FWL, L	10795	SDX	TA	5/66	1980	1898 - 1927	11	8 5/8	489	100	100	Calc 75%	
									7 7/8	4 1/2	1980	175	1219	Calc 75%	
19	Empire Abo Unit #25A	1650 FSL 990 FWL, L	01662	BP	Active	4/60	6123	5800 - 6060		8 5/8	728	225	Surf	Circ	
										5 1/2	6125	450	Surf		Sqzd 2492 - surf w/850 sx
20	NW State #7	990 FSL 990 FWL, M	30685	SDX	Active	9/99	3220	2472 - 2762	12 1/4	8 5/8	490	450	Surf	Calc 75%	
									7 7/8	5 1/2	3215	650	Surf	Calc 75%	
21	NWAU #12	990 FSL 760 FWL, M	20043	SDX	TA	5/67	1997	1922 - 49		8 5/8	495	100	106	Calc 75%	
										4 1/2	1995	150	1343	Calc 75%	
22	Empire Abo Unit #25	660 FSL 660 FWL, M	01660	BP	Active	3/60	6187	5897 - 6087		8 5/8	770	450	Surf	Circ	
										5 1/2	6187	450	Surf		Sqzd 2622 - surf w/800 sx
23	NWAU #13	990 FSL 2030 FWL, N	10834	SDX	P&A	6/66	2006	1921 - 54	11	8 5/8	493	125	Surf	Calc 75%	See Diagram
									7 7/8	4 1/2	2003	175	1242	Calc 75%	
24	Empire Abo Unit #26A	660 FSL 1980 FWL, N	01659	BP	Active	2/60	6172	5651 - 6118	11	8 5/8	779	280	Surf	Circ	
									7 7/8	5 1/2	6172	400	Surf		Sqzd w/825 sx to surf
25	Empire Abo Unit #26I	150 FSL 1400 FWL, N	21539	BP	Active	7/75	6220	5690 - 6064	11	8 5/8	1000	250	90	Temp Surv	Redimix to surf
									7 7/8	5 1/2	6222				DV @ 4018: Stg 1 680
															Stg 2 875 circ to surf
26	NWAU #14	940 FSL 1650 FEL, O	01665	SDX	Active	3/55	2099		*11	8 5/8	485	50	290	Calc 75%	*Assumed
								OH	*7 7/8	5 1/2	1802	25	1650	Calc 75%	
27	Empire Abo Unit #27A	650 FSL 1951 FEL, O	01667	BP	Active	1/60	6215	6134 - 56	11	8 5/8	985	800	Surf	Circ	CIBP 5980
								5714 - 5920	7 7/8	4 1/2	6215	850	75	Reported	
28	Empire Abo Unit #27I	330 FSL 1450 FEL, O	21540	BP	TA	6/75	6221	5705 - 6116	12 1/4	8 5/8	1007	550	Surf	Circ	CIBP @ 5655 w/35' cmt
									7 7/8	5 1/2	6255		Surf	Circ	DV @ 4050 Stg 1 450 sx
															Stg 2 600 sx TOC Surf - C
29	Empire Abo Unit #27J	330 FSL 2481 FEL, O	22009	BP	Active	7/77	6261	5714 - 6166	11	8 5/8	600	275	Surf	Circ	
									7 7/8	5 1/2	6370		Surf	Circ	DV @ 4382 Stg 1 475 sx
															Stg 2 1080 sx TOC Surf - C
30	NWAU #15	990 FSL 660 FEL, P	01666	SDX	TA	4/54	2102	1968 - 2002	11	8 5/8	750	50	555	Calc 75%	
										4 1/2	2100	335	Surf	Circ	(csg run & cmt 1974)
31	Kersey State #2	844 FSL 330 FEL, P	30889	SDX	Active	7/2000	4104	3643 - 3819	12 1/4	8 5/8	511	350	Surf	Calc 75%	CIBP 3570'
								2514 - 2718	7 7/8	5 1/2	4096	850	Surf	Circ	
32	Empire Abo Unit #28I	200 FSL 660 FEL, P	22597	BP	Active	9/78	6330	6169 - 6252	11	8 5/8	600	450	Surf	Circ	
									7 7/8	5 1/2	6330		Surf	Circ	DV @ 2988 Stg 1 635 sx
															Stg 2 700 sx TOC - Surf - C

PAA Acct
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NW State C-108 Data Sheet

No.#	Well Name	Legals	API #	Operator	Status	Compl Date	TD	Perfs	Hole Size	Casing Size	Depth Set	Sxs. Cmt.	TOC	Method	Comments
			30-015-												
		Sec 32, T17S R28E													
33	Empire Abo Unit #28B	660 FSL 660 FEL, P	01668	BP	TA	6/60	6319	5784 - 6140	11	8 5/8	1247	550	Surf	Circ	CIBP 6200
	Aspen?								7 7/8	4 1/2	6319	850	150	Reported	CIBP 5734 w/35' cmt
		Sec 5, T18S R28E													
34	Empire Abo Unit #28E	330 FNL 970 FEL, A	02604	BP	Active	2/60	6290	6230 - 85	11	8 5/8	1190	500	Surf	Circ	CIBP 6180'
								5850 - 6050	7 7/8	4 1/2	6290	750	400	Temp Surv	
35	Empire Abo Unit #27E	330 FNL 2271 FEL, B	02605	BP	Active	4/60	6261	6140 - 97	11	8 5/8	1227	750	Surf	Circ	CIBP 6100'
								5858 - 5930	7 7/8	4 1-/2	6261	900	60	Reported	See Diagram
36	Empire Abo Unit #271A	670 FNL 1700 FEL, B	21736	BP	Active	4/76	6350	5772 - 6260	11	8 5/8	535	200	50		Redimix @ surf
									7 7/8	5 1/2	6350		Surf	Circ	DV @ 4012, Stg 1 400 sx
															Stg 2 830 sx, TOC Surf - C
37	Empire Abo Unit #273	1300 FNL 1595 FEL, B	22488	BP	TA	8/78	6357	6200 - 10	11	8 5/8	550	350	Surf	Circ	CIBP 6170
									7 7/8	5 1/2	6351		Surf	Circ	DV @ 3034 Stg 1 625 sx
															Stg 2 775 sx TOC - Surf - C
38	Empire Abo Unit #272A	1300 FNL 2345 FEL, B	22526	BP	Active	7/78	6350	6130 - 70	11	8 5/8	550	375	Surf	Circ	
									7 7/8	5 1/2	6350		Surf	Circ	DV @ 3060 Stg 1 755 sx
															Stg 2 1125 sx TOC - Surf - C
39	EAU 261 A	1080 FNL 1914 FWL, C	22697	BP	TA	1/79	6350	6174 - 6204	11	8 5/8	550	400	Surf	Circ	CIBP 6150'
									7 7/8	5 1/2	6345		Surf	Circ	DV @ 3007 Stg 1 700 sx
															Stg 2 800 sx TOC Surf - C
40	EAU 26 E	330 FNL 1941 FWL, C	02606	BP	Active	7/60	6254	5662 - 6096	11	8 5/8	755	450	Surf	Circ	
									7 7/8	5 1/2	6254	850	895	Reported	
41	EAU 251	860 FNL 150 FWL, D	22750	BP	Active	1/79	6250	5664 - 6152	11	8 5/8	745	400	Surf	Circ	
									7 7/8	5 1/2	6245		Surf.	Circ	DV @ 3018 Stg 1 650 sx
															Stg 2 900 sx TOC Surf - C
42	EAU 25C	660 FNL 660 FWL, D	02607	BP	Active	3/60	6273	6122 - 68	11	8 5/8	1198	750	Surf	Circ	
								5822 - 5938	7 7/8	5 1/2	6273	850	1275	Reported	
43	Empire Abo Unit #26D		01657	BP	Active	12/59	6265	6220 - 45		8 5/8	959	370	Surf	Circ	
										5 1/2	6265	150	Surf		Sqzd w/1500 sx TOC Surf - Circ
		Sec 31, T17S R28E													
44	EAU #24	1650 FSL 330 FEL, I	01644	BP	TA	4/60	6106	5806 - 50	11	8 5/8	738	250	Surf	Circ	Pkr @ 5783'
								6024 - 50	7 7/8	5 1/2	6104	450	Surf	Circ	Perfs 6024 - 50 sqzd
															Sqzd 650 sx @ 2900
															TOC Surf - Circ
45	NW #10	735 FSL 330 FEL, P	30760	SDX	Active	11/99	3210	2482 - 2602	12 1/2	8 5/8	495	350	Surf	Calc	
									7 7/8	5 1/2	3192	650	Surf	Calc	

WELL NAME: North West Artesia Unit #8 FIELD AREA: Artesia - Qn-Gb-SA

LOCATION: Unit "K" 2310' FSL & 2105' FWL sec. 32 T17S R28E Eddy Co

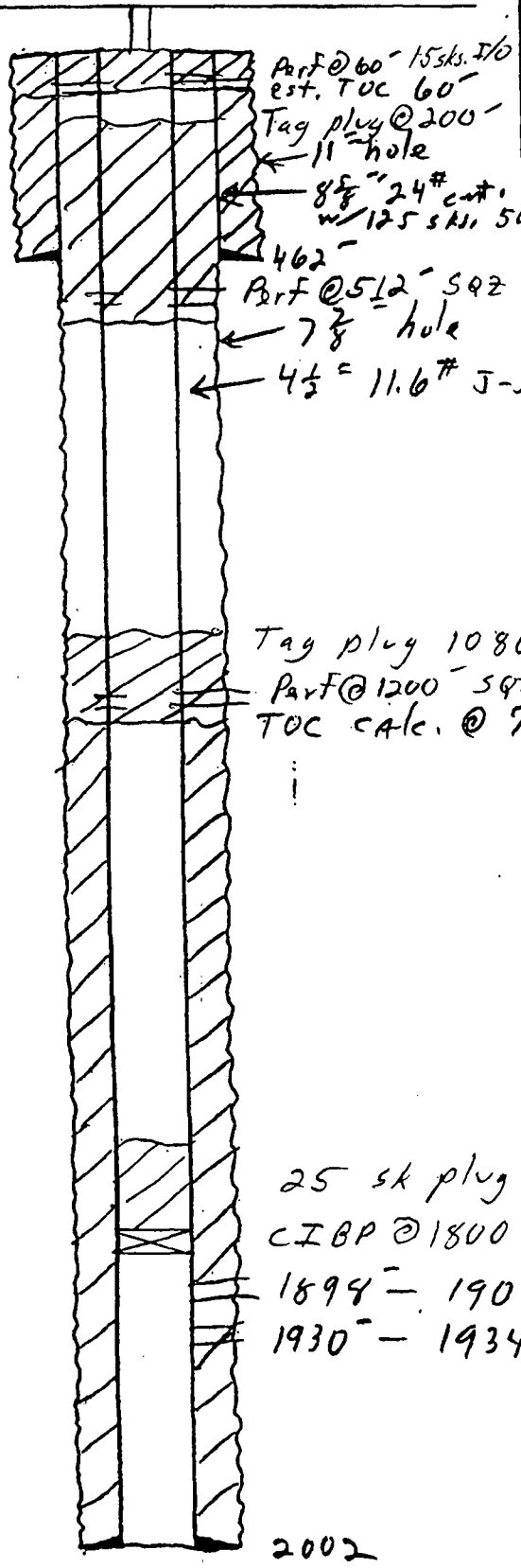
EL: ____' ZERO: ____' AGL: ____'

B: 3678' ORIG. DRLG./COMPL. DATE: ____

COMMENTS: ____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
To surface	



TOC calc. surface @ 75% if report states cement did not circ.

est. TOC @ 60'

P&A 11/2006

Tops:

Yates -	346'
7-Rivers -	612'
Qn -	1190'
Gb -	1625'
SA -	1938'

Perfs acidized & frac'd

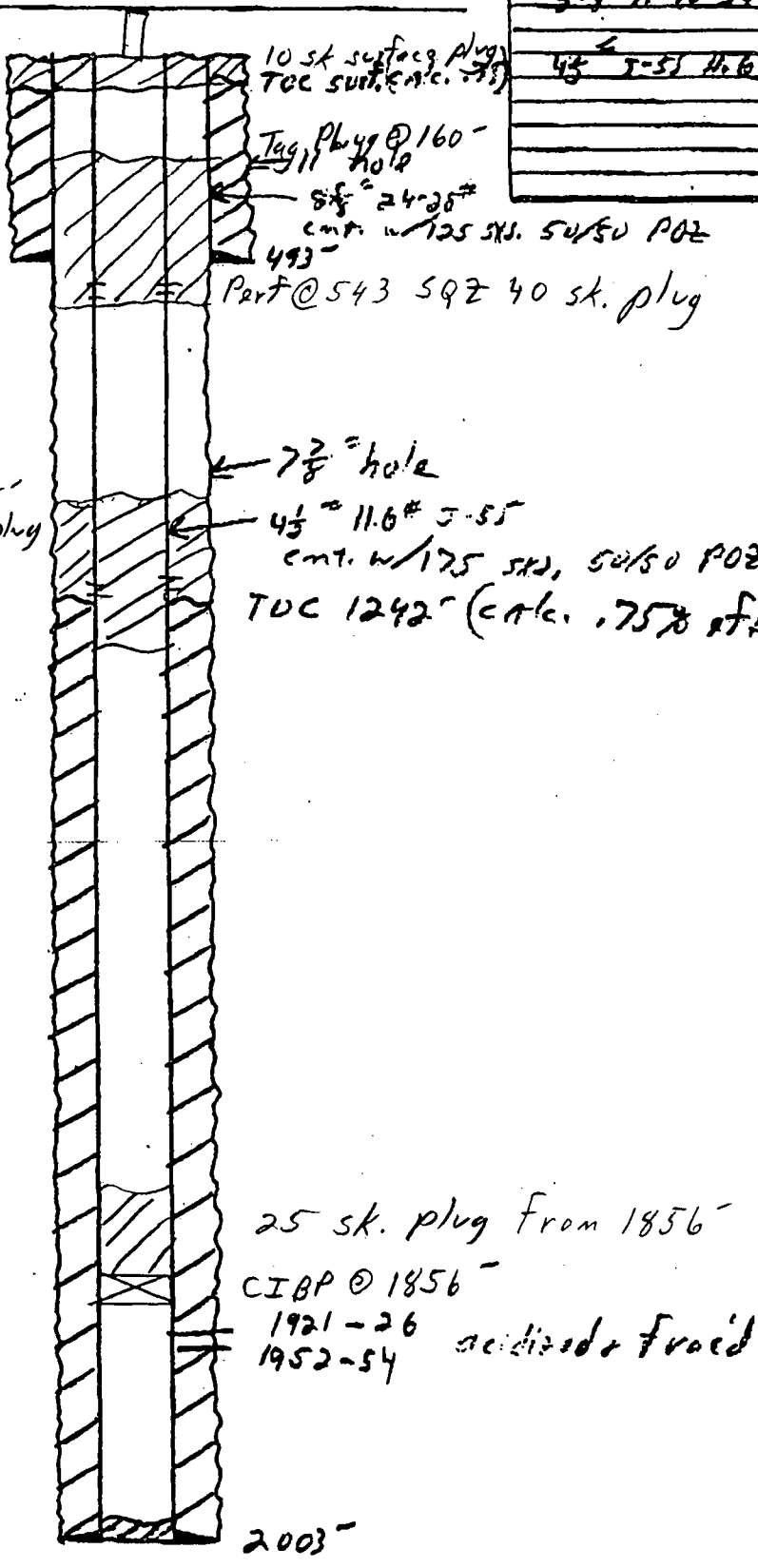
- SKETCH NOT TO SCALE -

REVISED: 4/2007

WELL NAME: Northwest Artesia Unit #13 FIELD AREA: Artesia
LOCATION: Sec. 32 T17S R28E 990' FSL & 2030' FWL
GL: ____' ZERO: ____' AGL: ____'
KB: 3687' ORIG. DRLG./COMPL. DATE: ____
COMMENTS: API # 30-015-10834

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
8⅝" H-40 24-28# (1966)	493'
4½" J-55 11.6# (1966)	2003'



P&A 10/2006

Tops:

Yates	346
7-Rs	607
Qn	1193
Gb	1640
SA	1958

WELL NAME: Aspen 32 State Com #1 FIELD AREA: Empire Morrow

LOCATION: Sec. 32 T17S R28E "J" 1370' FSL & 1609' FEL Eddy Co., N.M.

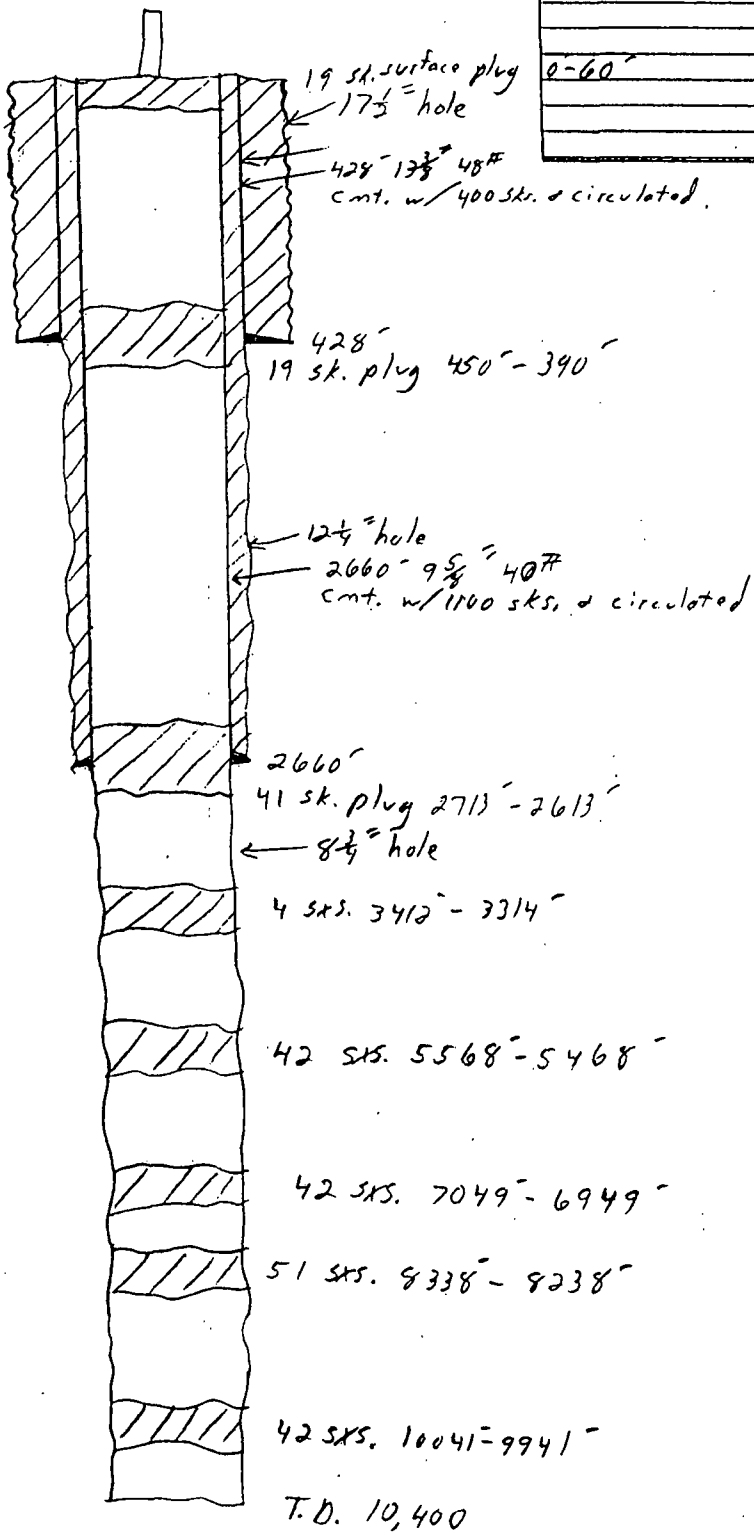
GL: 3669' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
0-60'	



BA 10/18/2005

- SKETCH NOT TO SCALE -

REVISED: _____

WELL NAME: Empire Abo Unit E-27 FIELD AREA: Empire Abo

LOCATION: Sec. 32 T17S R28E "B" 990' FNL 1900' FEL Eddy Co., NM

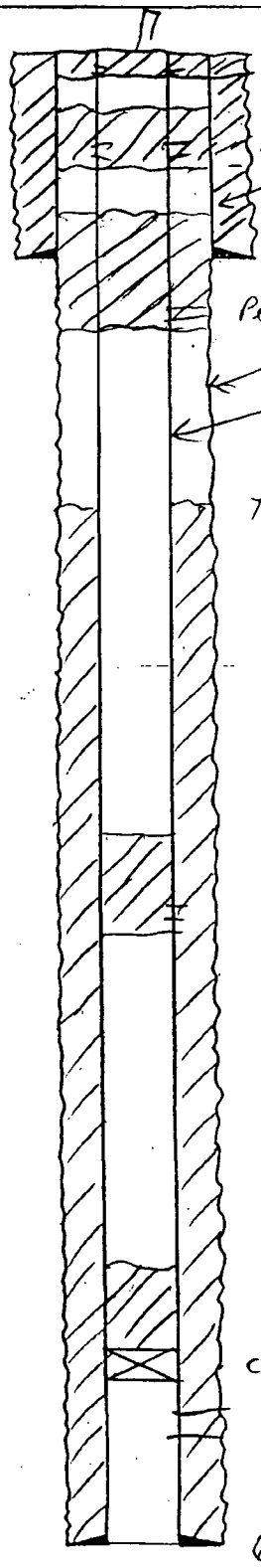
GL: _____' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET



P&A 3/2003

- SKETCH NOT TO SCALE -

REVISED: _____

WELL NAME: NW State #8 FIELD AREA: Artesia-Qn-Gb-SA

LOCATION: Sec. 32 T17S R28E "N" 1090' FSL 2126 FWL

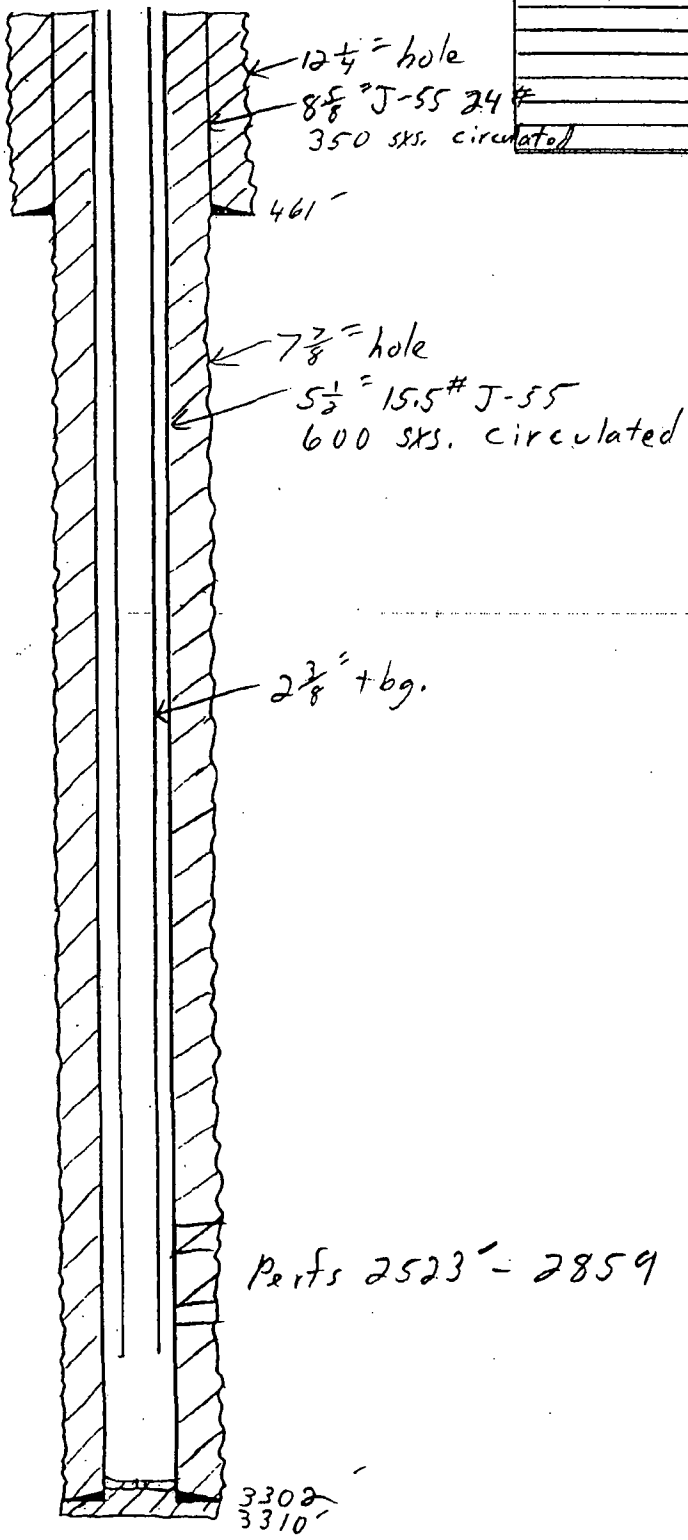
GL: 3668' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET



"Present Condition"

- SKETCH NOT TO SCALE -

REVISED: 4507

WELL NAME: NW State #8 FIELD AREA: Artesia-Qn-Gb-SA

LOCATION: Sec. 32 T17S R28E "N" 1090' FSL 2126 FWL

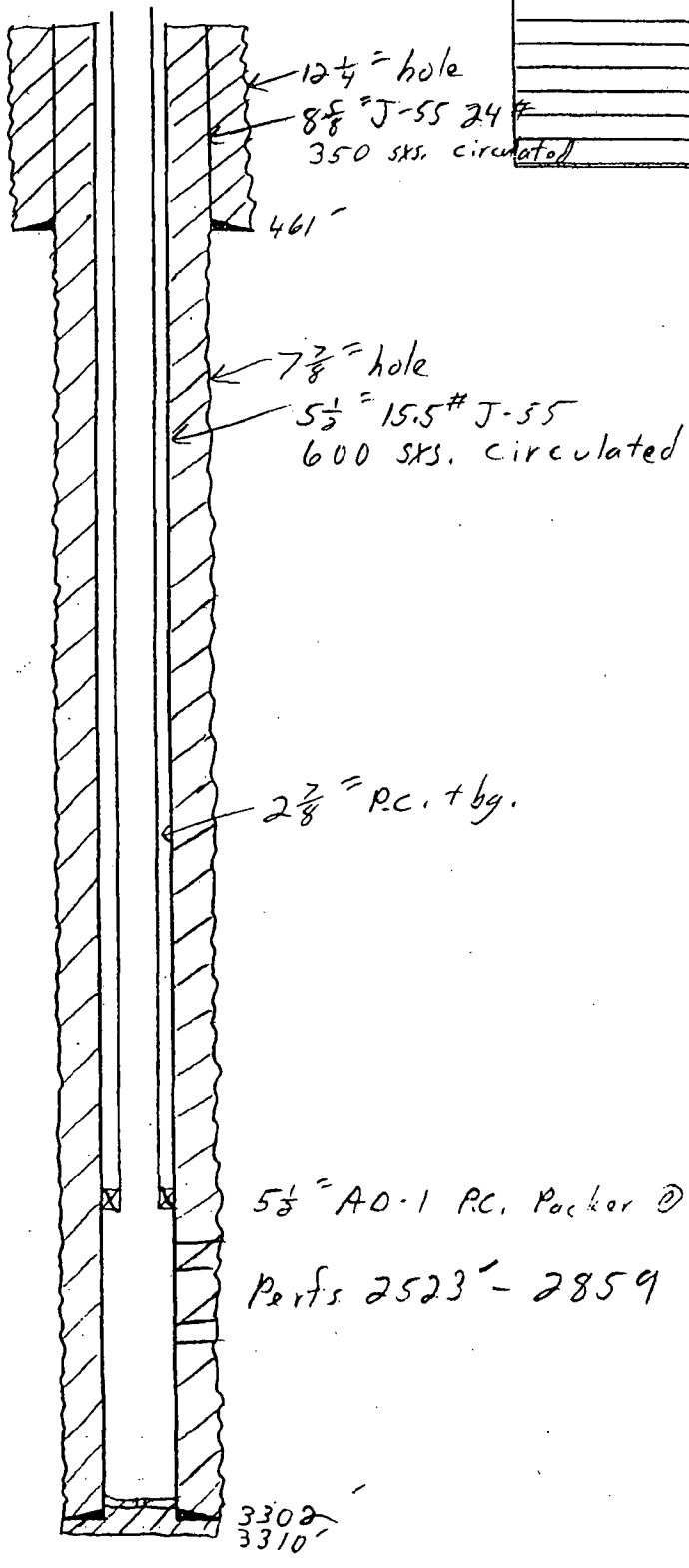
GL: 3668' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET



- SKETCH NOT TO SCALE -

REVISED: 4/5/07

#12

WELL NAME: NW State #8 FIELD AREA: Artesia-Qn-Gb-SA

LOCATION: Sec. 32 T17S R28E "N" 1090' FSL 2126 FWL

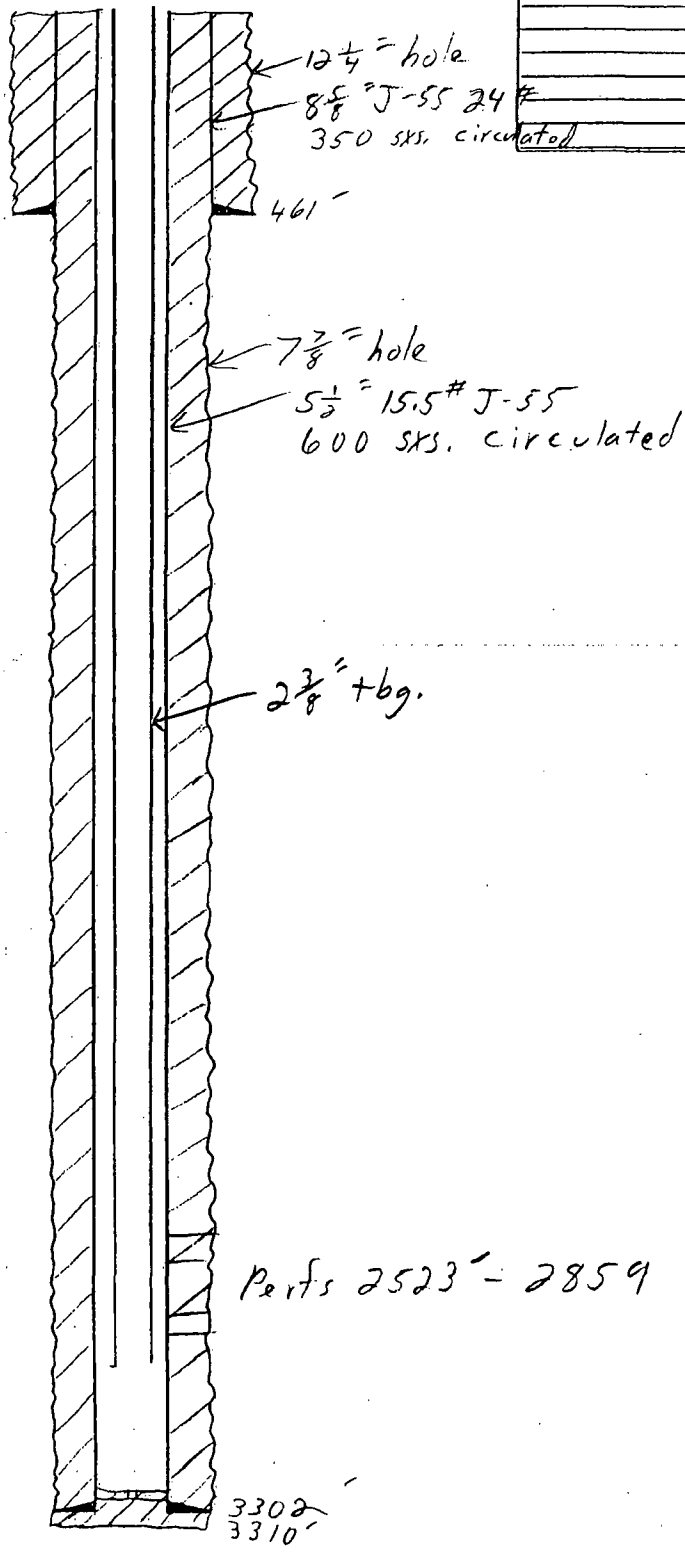
GL: 3668' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET



"Present Condition"

- SKETCH NOT TO SCALE -

REVISED: 4507

WELL NAME: NW State #8 FIELD AREA: Artesia-Qn-Gb-SA

LOCATION: Sec. 32 T17S R28E "N" 1090' FSL 2126 FWL

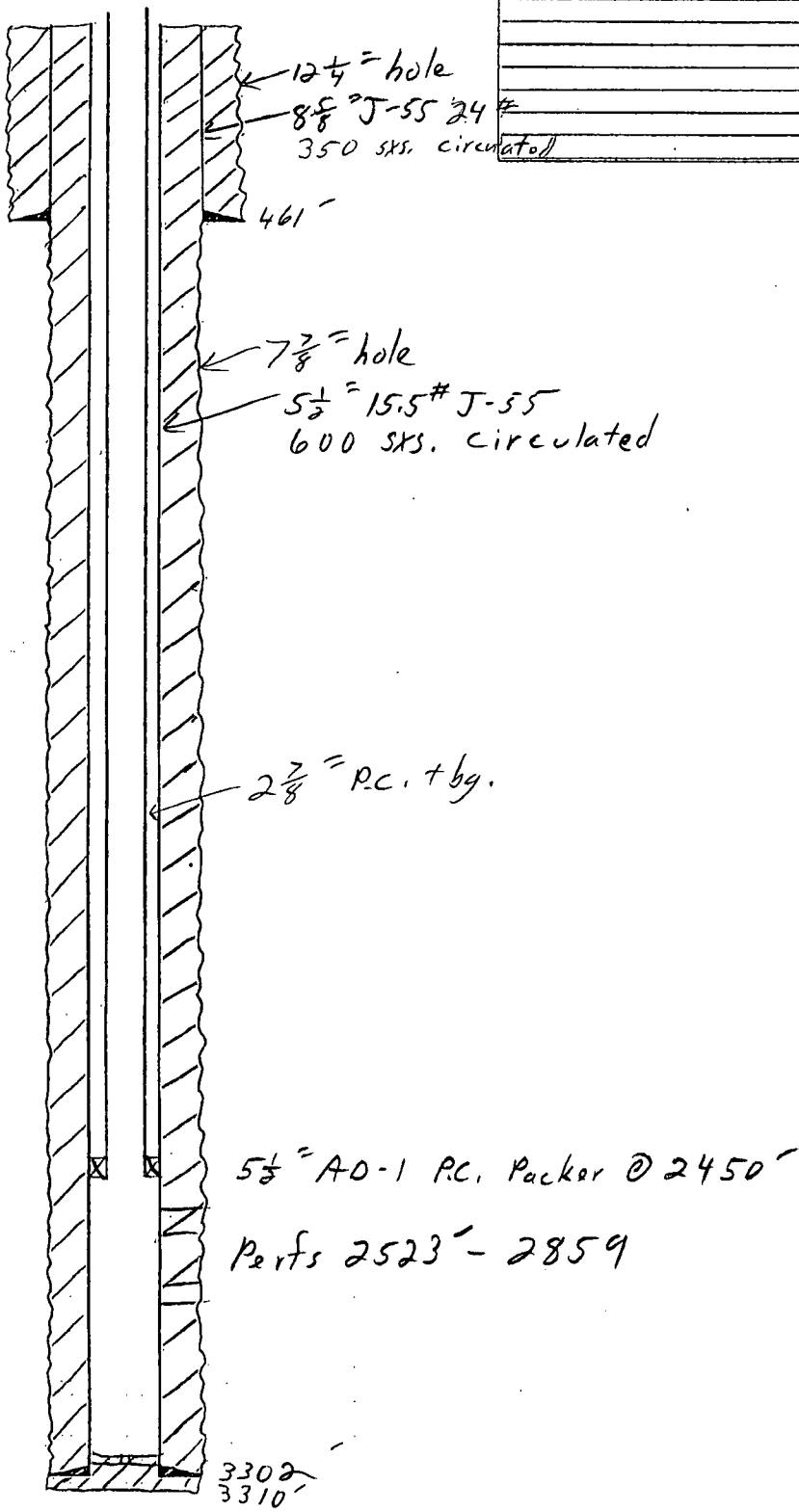
GL: 3668' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET



- SKETCH NOT TO SCALE -

REVISED: 4/5/07

#14

WELL NAME: Aspen 32 State Com #1 FIELD AREA: Empire Morrow

LOCATION: Sec. 32 T17S R28E "J" 1370' FSL & 1609' FEL Eddy Co., N.M.

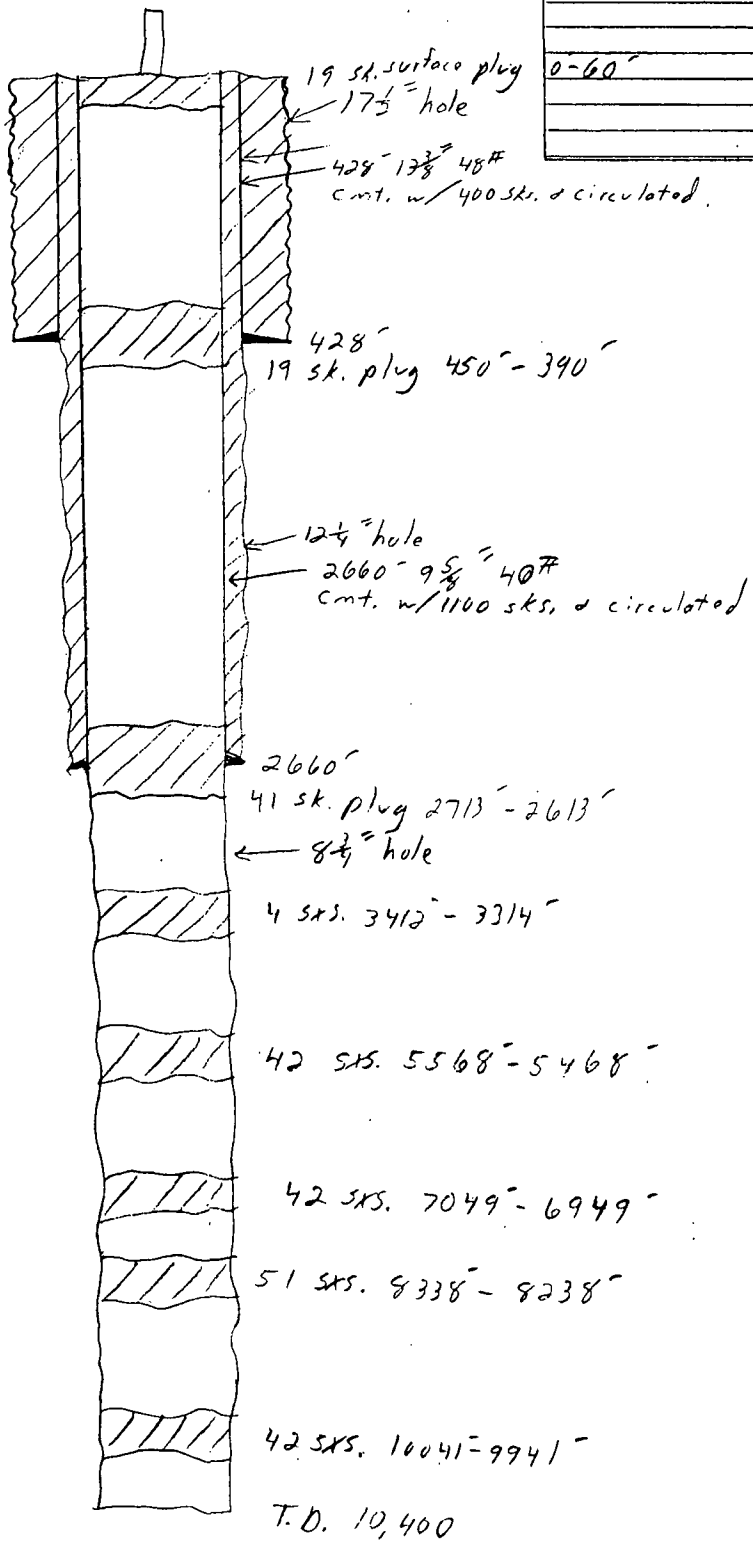
GL: 3669' ZERO: _____' AGL: _____'

KB: _____' ORIG. DRLG./COMPL. DATE: _____

COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
0-60'	



BA 10/18/2005

- SKETCH NOT TO SCALE -

REVISED: _____

WELL NAME: North West Artesia Unit #8 FIELD AREA: Artesia - Qn-Gb-SA

LOCATION: Unit "K" 2310' FSL & 2105' FWL sec. 32 T17S R28E Eddy Co.

#15

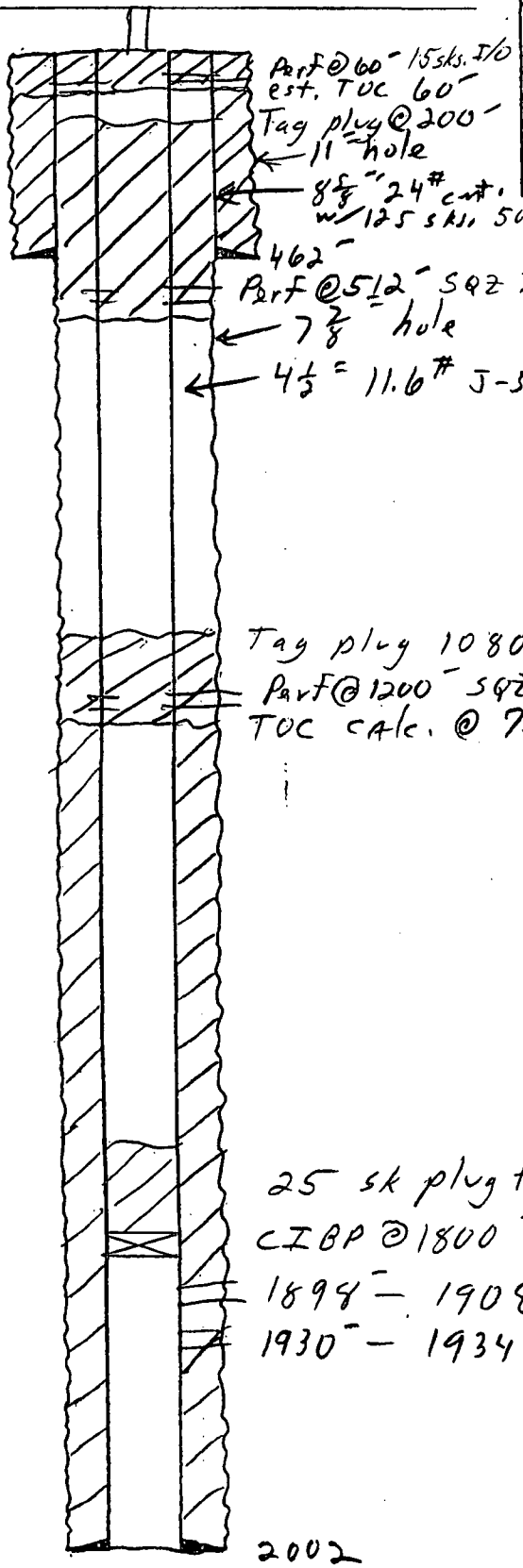
EL: ____' ZERO: ____' AGL: ____'

B: 3678' ORIG. DRLG./COMPL. DATE: ____

COMMENTS: ____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
to surface	



TOC calc. surface @ 75% if report states cement did not circ.

est. TOC @ 60'.

P&A 11/2006

Tops:

Yates	346'
7-Rivers	612'
Qn	1190'
Gb	1625'
SA	1938'

Perfs acidized & frac'd

- SKETCH NOT TO SCALE -

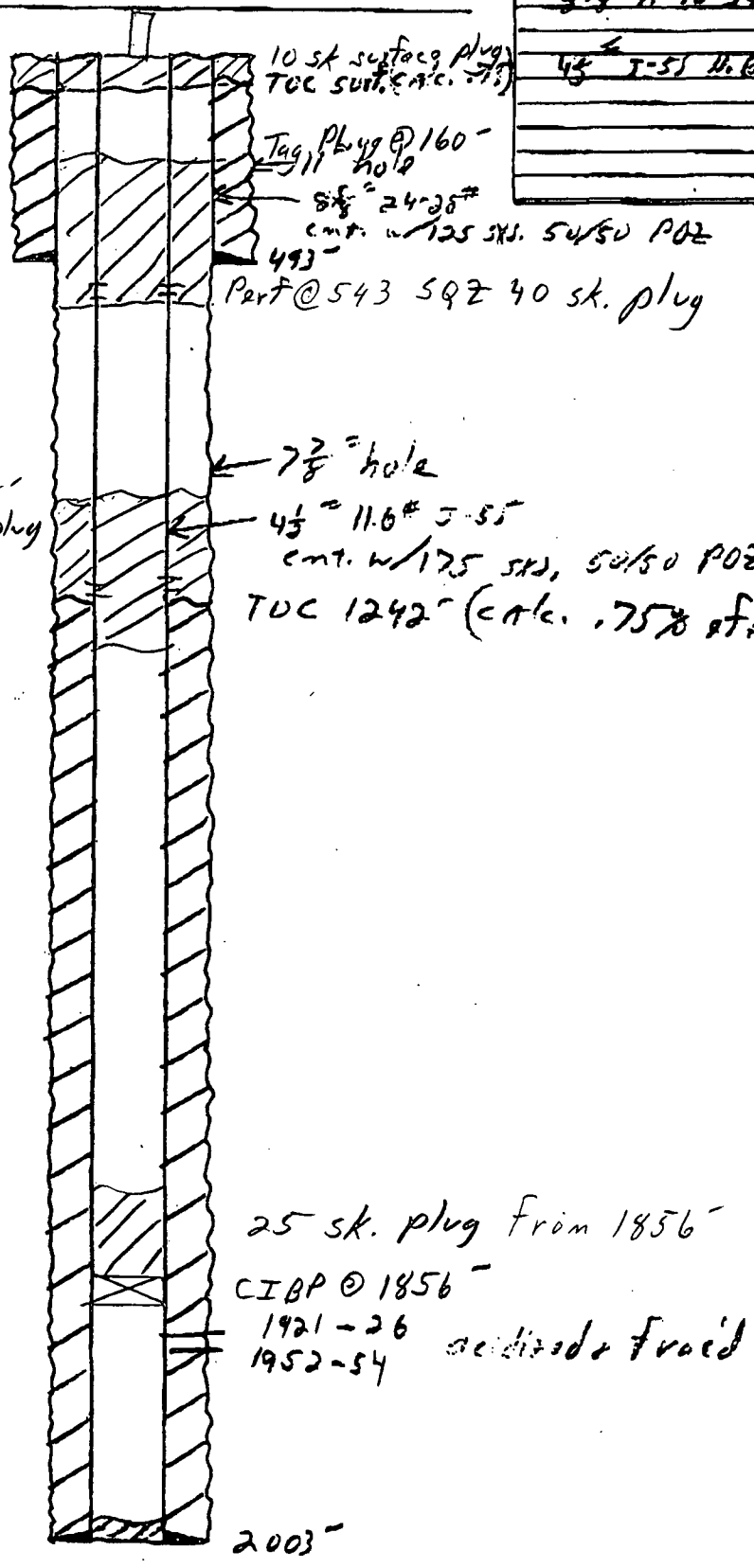
REVISED: 4/2007

#23

WELL NAME: Northwest Artesia Unit #13 FIELD AREA: Artesia
LOCATION: Sec. 32 T17S R28E 990' FSL & 2030' FWL
GL: ____' ZERO: ____' AGL: ____'
KB: 3687' ORIG. DRLG./COMPL. DATE: ____
COMMENTS: API # 30-015-10834

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
8⅝" H-40 24-28# (1966)	493'
4½" J-55 11.6# (1966)	2003'



P&A 10/2006

Tops:

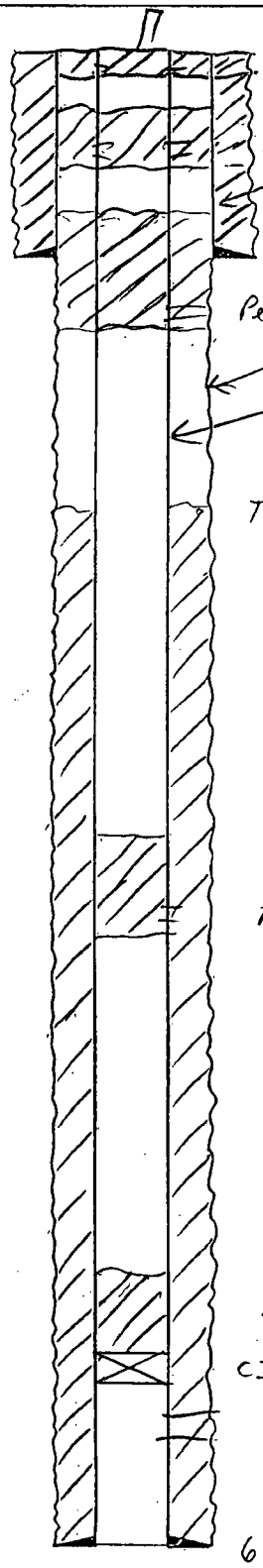
Yates	346
7-Rs	607
QN	1193
GB	1640
SA	1958

#35

WELL NAME: Empire Abo Unit E-27 FIELD AREA: Empire Abo
LOCATION: Sec. 32 T17S R28E "B" 990' FNL 1900' FEL Eddy Co., NM
GL: ____' ZERO: ____' AGL: ____'
KB: ____' ORIG. DRLG./COMPL. DATE: ____
COMMENTS: ____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET



PoA 3/2003

- SKETCH NOT TO SCALE -

REVISED: ____