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2010 APR 26 P 4: 10

WRITER:

Gary W. Larson,
Partner
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April 26, 2010

Via Hand Delivery

Florene Davidson
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Case 14475

Re: Application of Cano Petro of New Mexico, Inc.

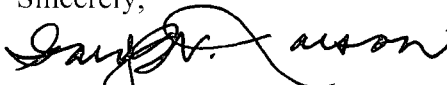
Dear Florene:

Enclosed for filing please find: (1) the original and one (1) copy of an application by Cano Petro of New Mexico, Inc. requesting approval of an expansion of its Cato Unit waterflood project; and (2) a proposed advertisement. I will also email to you the proposed advertisement in Word format.

I request that the application be set for hearing on the May 27, 2010 Examiner Docket.

Thank you for your attention to this matter.

Sincerely,


Gary W. Larson

GWL:ac
Encls.

PROPOSED ADVERTISEMENT

Case No. 14475:

Application of Cano Petro of New Mexico, Inc. for expansion of Cato Unit waterflood project, Chaves County, New Mexico. Cano Petro of New Mexico, Inc., seeks an order approving the expansion of its waterflood project for secondary recovery in the Cato Unit. The affected lands are located in the SW/4, S/2 SW/4, and NW/4 SE/4 of Section 2, the S/2 S/4 and NE/4 SE/4 of Section 3, Section 10, Section 11, the W/2 of Section 12, the NW/4, N/2 SW/4, SW/4 SW/4, and W/2 SE/4 SW/4 of Section 13, Section 14, and Section 15, Township 8 South, Range 30 East, NMPM, Chaves County, New Mexico. The proposed maximum daily rate of injection in the San Andres Formation is 2,000 STBD per well and the proposed maximum injection pressure ranges between 1,250 psi and 1,325 psi on a per well basis. The shallowest perforation for a well that will be utilized for injection is 3,250 feet. The Cato Unit is located 2.65 miles southwest of Elida, New Mexico and 5.3 miles northeast of Roswell, New Mexico.

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Case 14475

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ Yes ☐ No
- II. OPERATOR: Cano Petro of New Mexico, Inc.
ADDRESS: 801 Cherry St. - Unit 25, Ste. 3200; Fort Worth, TX 76102
CONTACT PARTY: Alex Azizi PHONE: (817) 698-0900
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary. attached
- IV. Is this an expansion of an existing project? ☒ Yes ☐ No
If yes, give the Division order number authorizing the project: R-9029-A
- 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. attached
- 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. attached
- VII. Attach data on the proposed operation, including: attached
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 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.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. 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. Previously submitted - Case No. 14128
- IX. Describe the proposed stimulation program, if any. attached
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
logs have been filed
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. no such wells
- 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. not applicable
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. attached
- 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: Keith B. Masters, P.E. TITLE: Consultant
SIGNATURE: [Signature] DATE: 04/23/10
E-MAIL ADDRESS: k b masters@mastersconsultingllc.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: Case No. 14128

ATTACHMENT TO FORM C-108

Cano Petro of New Mexico, Inc.

Cato San Andres Unit

Item III – Proposed Injection Wells

Wells with existing Injection Authority

CSAU # 6	to be converted to injection
CSAU # 7	to be converted to injection
CSAU # 19	active injector
CSAU # 20	active injector
CSAU # 21	active injector
CSAU # 23	active injector
CSAU # 25	conversion to injection to be deferred
CSAU # 28	active injector
CSAU # 29	to be replaced
CSAU # 48	active injector
CSAU # 49	active injector
CSAU # 50R	active injector
CSAU # 51	active injector
CSAU # 52	to be replaced
CSAU # 53	to be replaced
CSAU # 55	to be replaced
CSAU # 56	active injector
CSAU # 57	active injector
CSAU # 77	active injector
CSAU # 80	to be replaced
CSAU # 81	to be replaced
CSAU # 82	to be replaced
CSAU # 83	to be replaced
CSAU # 84	active injector
CSAU # 85	active injector
CSAU # 86	active injector
CSAU # 87	active injector
CSAU # 88	active injector
CSAU # 109	to be converted to injection
CSAU # 110	to be replaced
CSAU # 111	to be converted to injection
CSAU # 112	to be replaced
CSAU # 113	to be replaced
CSAU # 114	to be replaced
CSAU # 115	to be converted to injection
CSAU # 116	to be replaced
CSAU # 117	to be replaced
CSAU # 118	to be converted to injection
CSAU # 507	active injector
CSAU # 533	active injector

ATTACHMENT TO FORM C-108, continued

Cano Petro of New Mexico, Inc.

Cato San Andres Unit

Item III – Proposed Injection Wells, continued

Wells with existing Injection Authority, continued

CSAU # 822	active injector
CSAU # 824	to be drilled as an injector
CSAU # 826	active injector
CSAU # 827	to be drilled as an injector
CSAU # 854	active injector
CSAU # 878	to be drilled as an injector
CSAU # 879	to be drilled as an injector

Wells for which Injection Authority is requested

CSAU # 8	to be converted to injection
CSAU # 9	to be converted to injection
CSAU # 17	to be converted to injection
CSAU # 30	to be converted to injection
CSAU # 31	to be converted to injection
CSAU # 32	to be converted to injection
CSAU # 47	to be converted to injection
CSAU # 60	to be converted to injection
CSAU # 74	to be converted to injection
CSAU # 75	to be converted to injection
CSAU # 76	to be converted to injection
CSAU # 89	to be converted to injection
CSAU # 91	to be converted to injection
CSAU # 106	to be converted to injection
CSAU # 108	to be converted to injection
CSAU # 120	to be converted to injection
CSAU # 400	to be drilled as an injector
CSAU # 521	to be drilled as an injector
CSAU # 537	to be drilled as an injector
CSAU # 590	to be drilled as an injector
CSAU # 818	to be drilled as an injector
CSAU # 825	to be drilled as an injector
CSAU # 829	to be drilled as an injector
CSAU # 845	to be drilled as an injector
CSAU # 846	to be drilled as an injector
CSAU # 852	to be drilled as an injector
CSAU # 853	to be drilled as an injector
CSAU # 855	to be drilled as an injector
CSAU # 858	to be drilled as an injector
CSAU # 859	to be drilled as an injector

ATTACHMENT TO FORM C-108, continued

Cano Petro of New Mexico, Inc.

Cato San Andres Unit

Item III – Proposed Injection Wells, continued

Wells for which Injection Authority is requested, continued

CSAU # 880	to be drilled as an injector
CSAU # 881	to be drilled as an injector
CSAU # 882	to be drilled as an injector
CSAU # 883	to be drilled as an injector
CSAU # 890	to be drilled as an injector
CSAU # 907	to be drilled as an injector
CSAU # 910	to be drilled as an injector
CSAU # 912	to be drilled as an injector
CSAU # 913	to be drilled as an injector
CSAU # 914	to be drilled as an injector
CSAU # 916	to be drilled as an injector
CSAU # 917	to be drilled as an injector
CSAU # 919	to be drilled as an injector

ATTACHMENT TO FORM C-108
Cano Petro of New Mexico, Inc.
Cato San Andres Unit

Item III

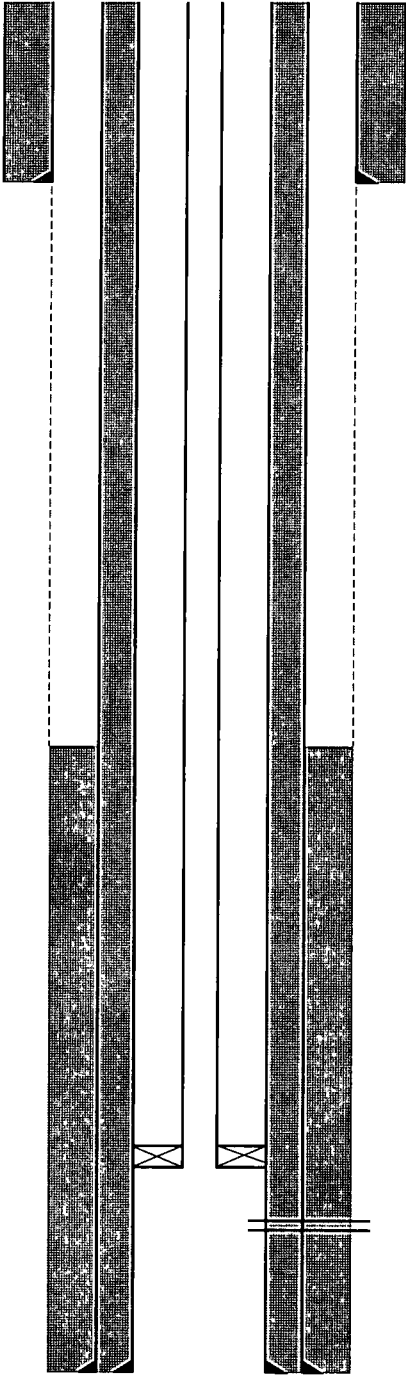
WELLBORE SCHEMATICS
PROPOSED INJECTION WELLS

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #8
Well Location: 660' FSL, 660' FEL
Calls: P
Unit: 3
Section: 85
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3467
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3220

Perforations*

Top (ft): 3320
Bottom (ft): 3439

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 318
Amount Cement (sx): 250
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3320
Bottom (ft): 3439

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3498
Amount Cement (sx): 300
Top of Cement (ft): 2255
TOC Method: Calculated

Total Depth (ft): 3498
PBTD (ft): 3467

* Perforations subject to change

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #9
Well Location:
Calls 660' FSL, 1980' FEL
Unit O
Section 3
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3550
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3198

Perforations*

Top (ft): 3298
Bottom (ft): 3384

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3600
PBSD (ft): 3550

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 28
Setting Depth (ft): 508
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3298
Bottom (ft): 3384

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3582
Amount Cement (sx): 450
Top of Cement (ft): 2060
TOC Method: TS

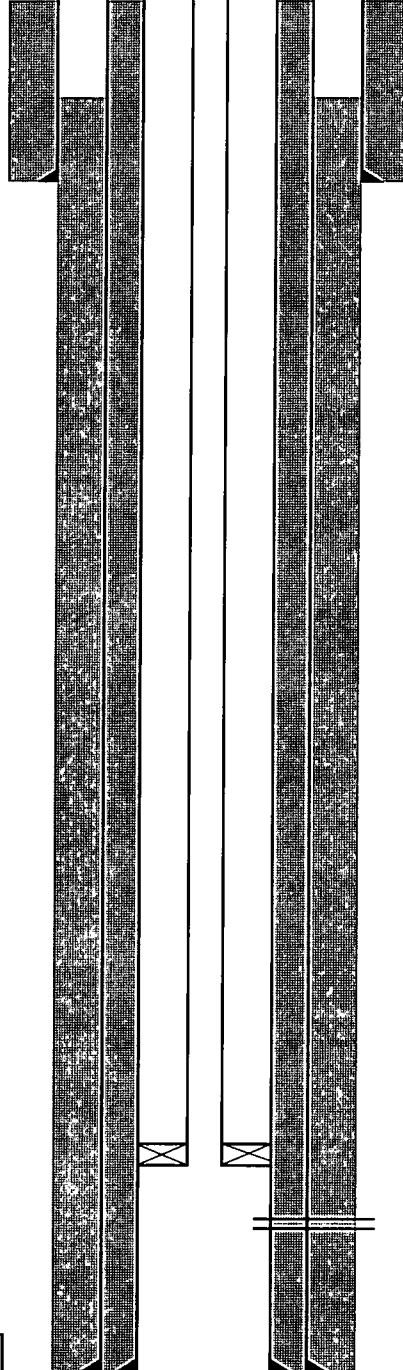
* Perforations subject to change

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #17
Well Location:
Calls 660' FNL, 1980' FWL
Unit C
Section 10
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3396
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3163

Perforations*

Top (ft): 3263
Bottom (ft): 3371

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 452
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3263
Bottom (ft): 3371

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3420
Amount Cement (sx): 800
Top of Cement (ft): 105
TOC Method: Calculated

Total Depth (ft): 3420
PBTD (ft): 3396

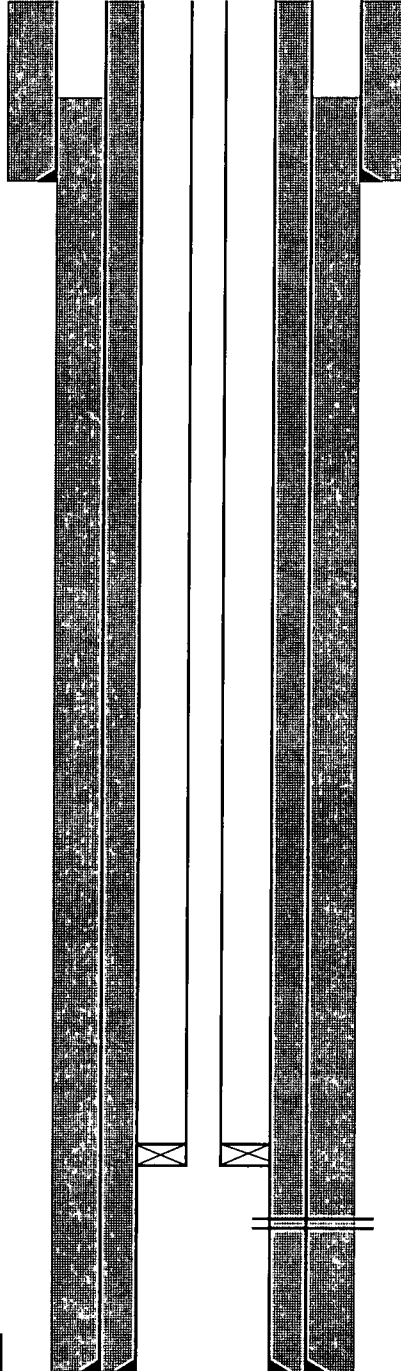
* Perforations subject to change

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #30
Well Location:
Calls 1980' FNL, 1980' FEL
Unit G
Section 10
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3314

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) Prior perforations 3300 - 3414.
- (5) No other known productive intervals in area.

Total Depth (ft): 3548
PBTD (ft): Unknown

Surface Casing

Hole Size (in): 11
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 465
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3520
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Calculated

Perforations

Top (ft): 3314
Bottom (ft): 3478

Production Casing

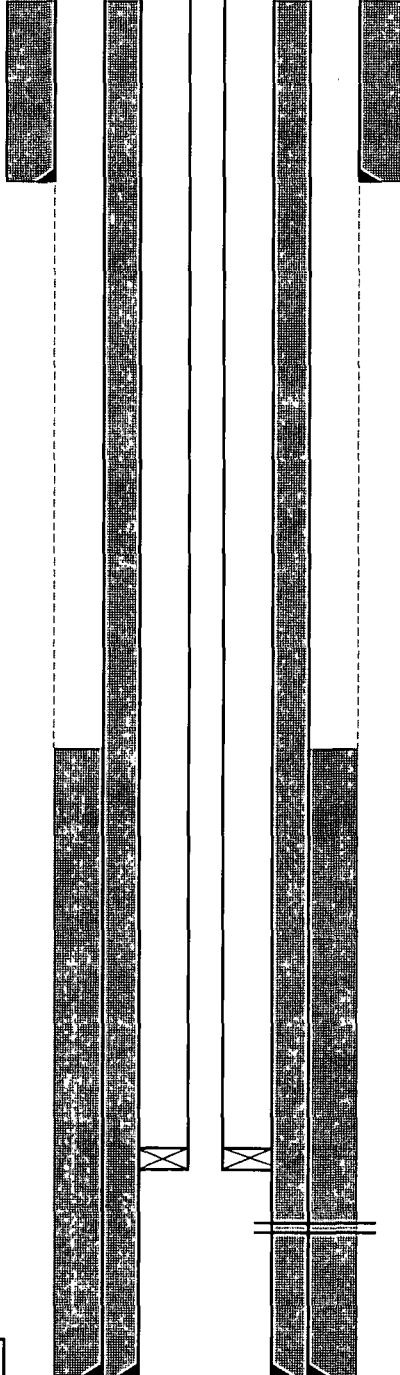
Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3548
Amount Cement (sx): 800
Top of Cement (ft): 233
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #31
 Well Location:
 Calls 1980' FNL, 1980' FWL
 Unit F
 Section 10
 Township 8S
 Range 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3431
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3180

Perforations*

Top (ft): 3280
 Bottom (ft): 3390

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3453
 PBDT (ft): 3431

* Perforations subject to change

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 24
 Setting Depth (ft): 296
 Amount Cement (sx): 250
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3280
 Bottom (ft): 3390

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3453
 Amount Cement (sx): 300
 Top of Cement (ft): 2210
 TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #32
Well Location:
Calls 1980' FNL, 660' FWL
Unit E
Section 10
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3388
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3161

Perforations*

Top (ft): 3261
Bottom (ft): 3380

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3410
PBTD (ft): 3388

* Perforations subject to change

CURRENT WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 458
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3261
Bottom (ft): 3380

Production Casing

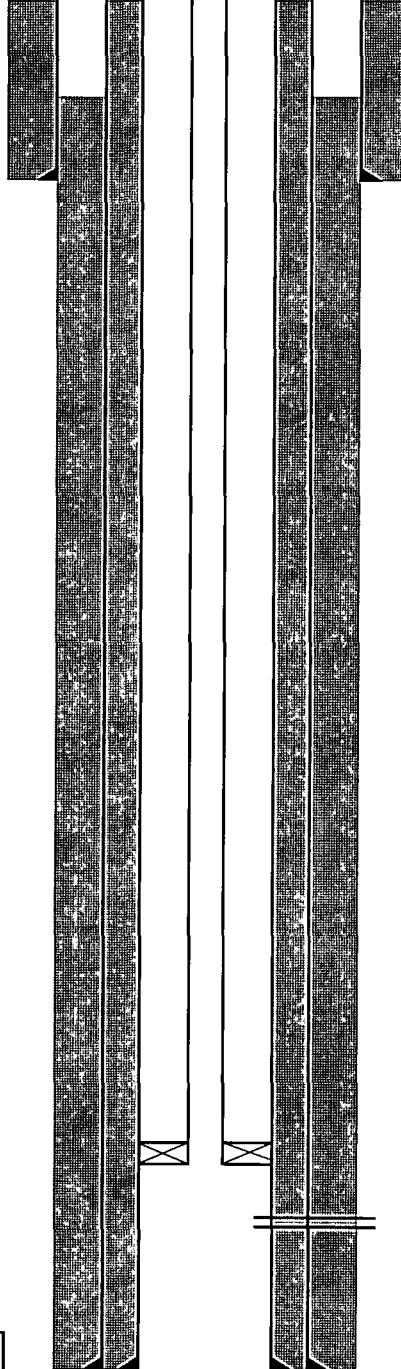
Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3410
Amount Cement (sx): 800
Top of Cement (ft): 95
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #47
 Well Location:
 Calls: 1980' FSL, 1980' FEL
 Unit: J
 Section: 10
 Township: 8S
 Range: 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3454
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3236

Perforations*

Top (ft): 3336
 Bottom (ft): 3440

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3480
 PBTB (ft): 3454

* Perforations subject to change

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 24
 Setting Depth (ft): 453
 Amount Cement (sx): 300
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3336
 Bottom (ft): 3440

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3480
 Amount Cement (sx): 800
 Top of Cement (ft): 165
 TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #60
Well Location:
Calls: 660' FSL, 660' FWL
Unit: M
Section: 10
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3370
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3203

Perforations*

Top (ft): 3303
Bottom (ft): 3352

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) Prior perforations 3388 - 3430.
- (5) No other known productive intervals in area.

Total Depth (ft): 3492
PBTD (ft): 3370

* Perforations subject to change

CURRENT WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 450
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3303
Bottom (ft): 3352

Production Casing

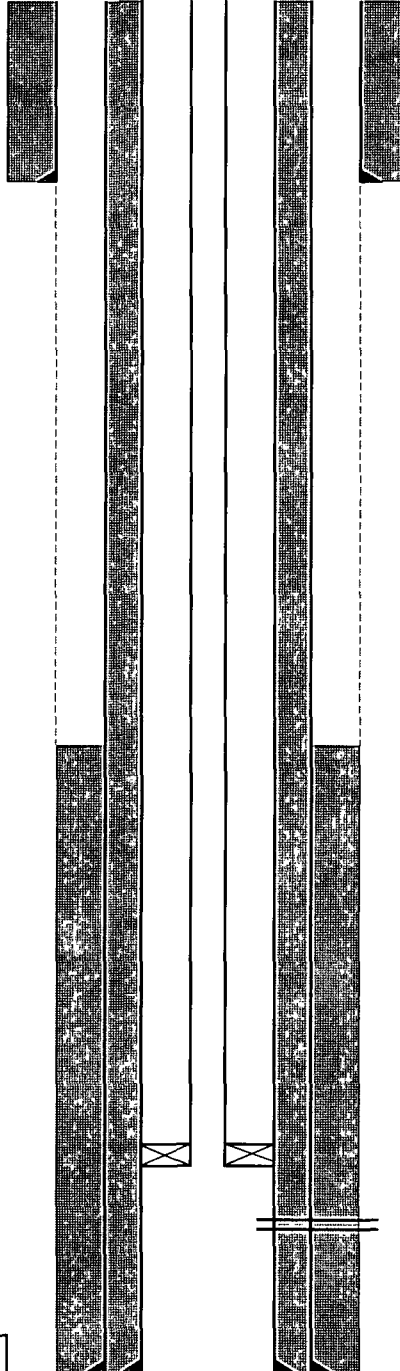
Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3492
Amount Cement (sx): 800
Top of Cement (ft): 177
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #74
 Well Location: 660' FNL, 660' FWL
 Calls: D
 Unit: 15
 Section: 85
 Township: 30E
 Range:

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3523
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3243

Perforations*

Top (ft): 3343
 Bottom (ft): 3424

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) Prior perforations 3440 - 3446.
- (5) No other known productive intervals in area.

Total Depth (ft): 3541
 PBTD (ft): 3523

* Perforations subject to change

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 28
 Setting Depth (ft): 517
 Amount Cement (sx): 300
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3343
 Bottom (ft): 3424

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3536
 Amount Cement (sx): 300
 Top of Cement (ft): 2400
 TOC Method: TS

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #75
Well Location: 660' FNL, 1980' FWL
Calls: C
Unit: 15
Section: 85
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3450
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3270

Perforations*

Top (ft): 3370
Bottom (ft): 3422

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) Prior perforations 3458 - 3497.
- (5) No other known productive intervals in area.

Total Depth (ft): 3530
PBTD (ft): 3450

* Perforations subject to change

CURRENT WELL CONSTRUCTION

Surface Casing

Hole Size (in): 11
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 460
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3370
Bottom (ft): 3422

Production Casing

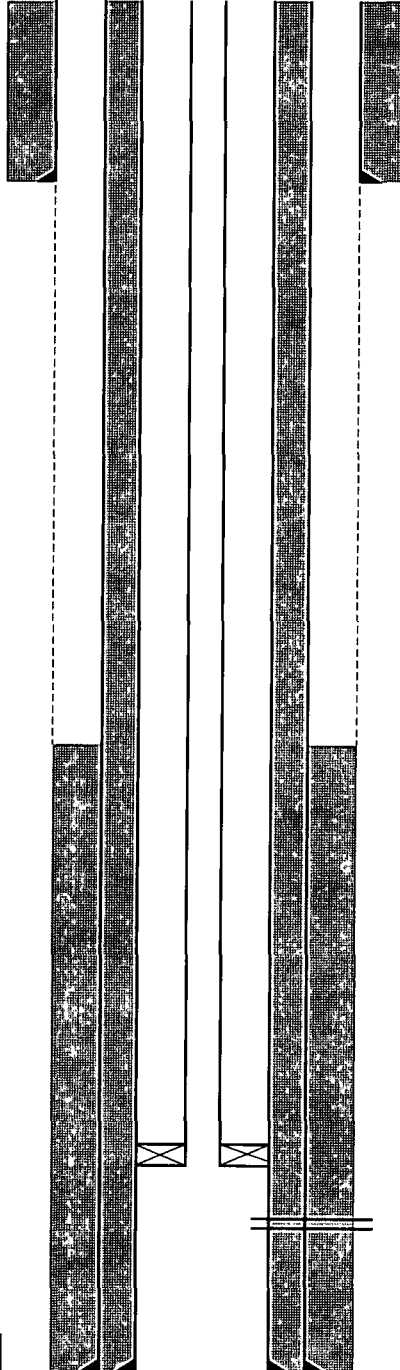
Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3530
Amount Cement (sx): 800
Top of Cement (ft): 215
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #76
 Well Location:
 Calls: 660' FNL, 1980' FEL
 Unit: B
 Section: 15
 Township: 8S
 Range: 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3530
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3342

Perforations*

Top (ft): 3442
 Bottom (ft): 3512

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3600
 PBTD (ft): 3530

* Perforations subject to change

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 28
 Setting Depth (ft): 514
 Amount Cement (sx): 300
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3442
 Bottom (ft): 3512

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3587
 Amount Cement (sx): 500
 Top of Cement (ft): 1980
 TOC Method: TS

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #89
Well Location:
Calls: 1980' FNL, 1980' FEL
Unit: G
Section: 15
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3530
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3292

Perforations*

Top (ft): 3392
Bottom (ft): 3488

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3600
PBTD (ft): 3530

CURRENT WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 28
Setting Depth (ft): 519
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Calculated

Perforations

Top (ft): 3392
Bottom (ft): 3488

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3558
Amount Cement (sx): 500
Top of Cement (ft): 1940
TOC Method: TS

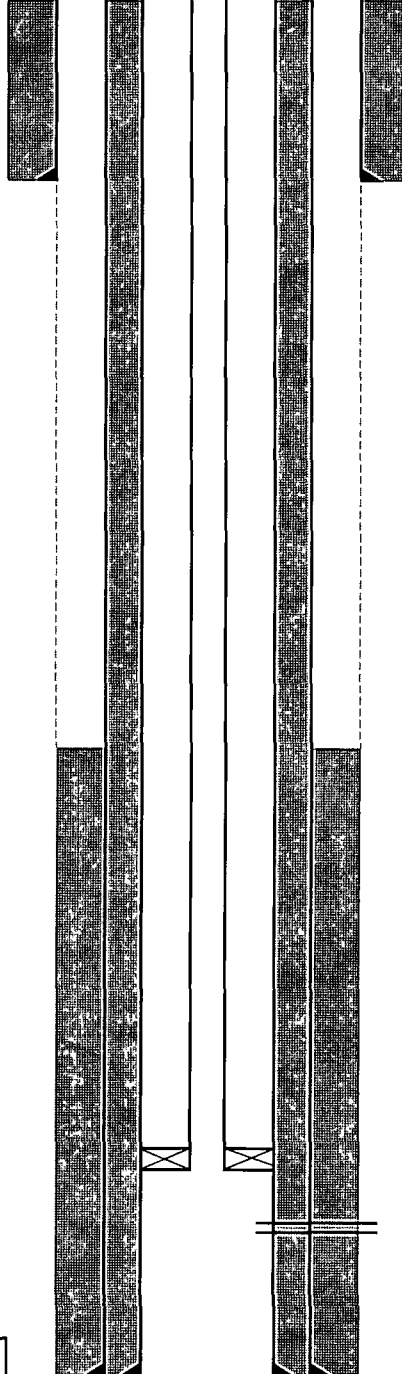
* Perforations subject to change

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #91
 Well Location:
 Calls: 1980' FNL, 660' FWL
 Unit: E
 Section: 15
 Township: 8S
 Range: 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3497
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3260

Perforations*

Top (ft): 3360
 Bottom (ft): 3388

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3541
 PBTD (ft): 3497

* Perforations subject to change

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 28
 Setting Depth (ft): 523
 Amount Cement (sx): 300
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3360
 Bottom (ft): 3388

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3533
 Amount Cement (sx): 300
 Top of Cement (ft): 2480
 TOC Method: TS

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #106
Well Location:
Calls: 1980' FSL, 660' FWL
Unit: L
Section: 15
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Production Casing

Casing Size (in): 3 1/2
Casing Weight (ppf): 9.6
Setting Depth (ft): 3520
Amount Cement (sx): 400
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
Tubing Weight (ppf): 3.25
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3286

Perforations*

Top (ft): 3386
Bottom (ft): 3515

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3555
PBDT (ft): 3520

* Perforations subject to change

CURRENT WELL CONSTRUCTION

Surface Casing

Hole Size (in): 11
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 455
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3386
Bottom (ft): 3515

Production Casing

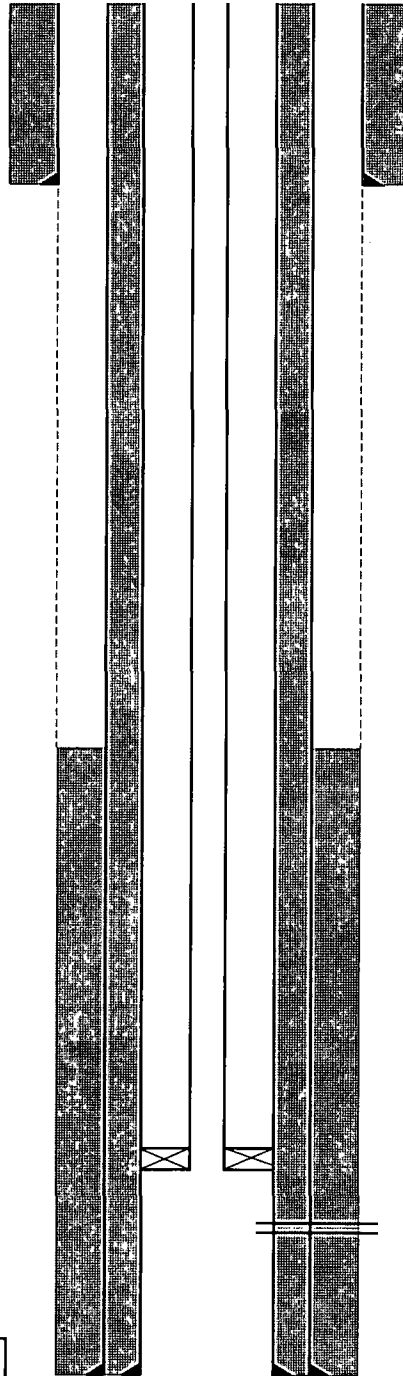
Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3555
Amount Cement (sx): 600
Top of Cement (ft): 1069
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #108
 Well Location:
 Calls: 1980' FSL, 1980' FEL
 Unit: J
 Section: 15
 Township: 8S
 Range: 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3538
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3318

Perforations*

Top (ft): 3418
 Bottom (ft): 3506

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3600
 PBTD (ft): 3538

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 24
 Setting Depth (ft): 458
 Amount Cement (sx): 300
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3418
 Bottom (ft): 3506

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3600
 Amount Cement (sx): 275
 Top of Cement (ft): 2600
 TOC Method: TS

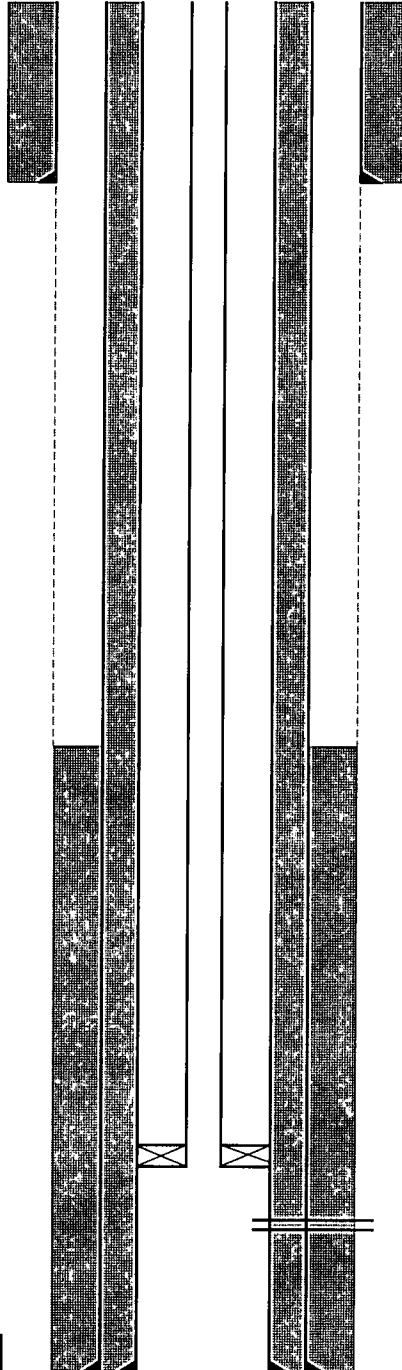
* Perforations subject to change

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
 Well Name: CSAU #120
 Well Location: 660' FSL, 1980' FWL
 Calls: N
 Unit: 15
 Section: 8S
 Township: 30E

PROPOSED WELL CONSTRUCTION

CURRENT WELL CONSTRUCTION



Production Casing

Casing Size (in): 3 1/2
 Casing Weight (ppf): 9.6
 Setting Depth (ft): 3589
 Amount Cement (sx): 400
 Top of Cement (ft): Surface
 TOC Method: Circulated

Tubing

Tubing Size (in): 2 1/16
 Tubing Weight (ppf): 3.25
 Lining: Seal-tite

Packer

Model: Baker AD-1
 Setting Depth (ft): 3339

Perforations*

Top (ft): 3439
 Bottom (ft): 3546

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as a producer and will be converted to injection service.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

Total Depth (ft): 3618
 PBTD (ft): 3589

Surface Casing

Hole Size (in): 12 1/4
 Casing Size (in): 8 5/8
 Casing Weight (ppf): 24
 Setting Depth (ft): 319
 Amount Cement (sx): 250
 Top of Cement (ft): Surface
 TOC Method: Circulated

Perforations

Top (ft): 3439
 Bottom (ft): 3546

Production Casing

Hole Size (in): 7 7/8
 Casing Size (in): 4 1/2
 Casing Weight (ppf): 9.5
 Setting Depth (ft): 3618
 Amount Cement (sx): 300
 Top of Cement (ft): 2375
 TOC Method: Calculated

* Perforations subject to change

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #400
Well Location:
Calls 660' FNL, 660' FWL
Unit D
Section 10
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

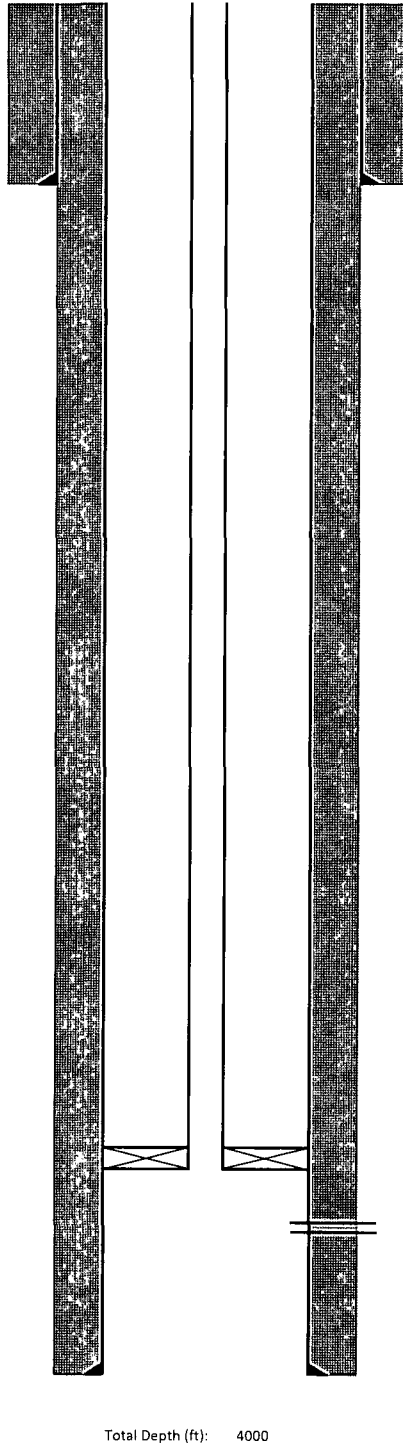
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #521
Well Location:
Calls 584' FNL, 607' FWL
Unit D
Section 12
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

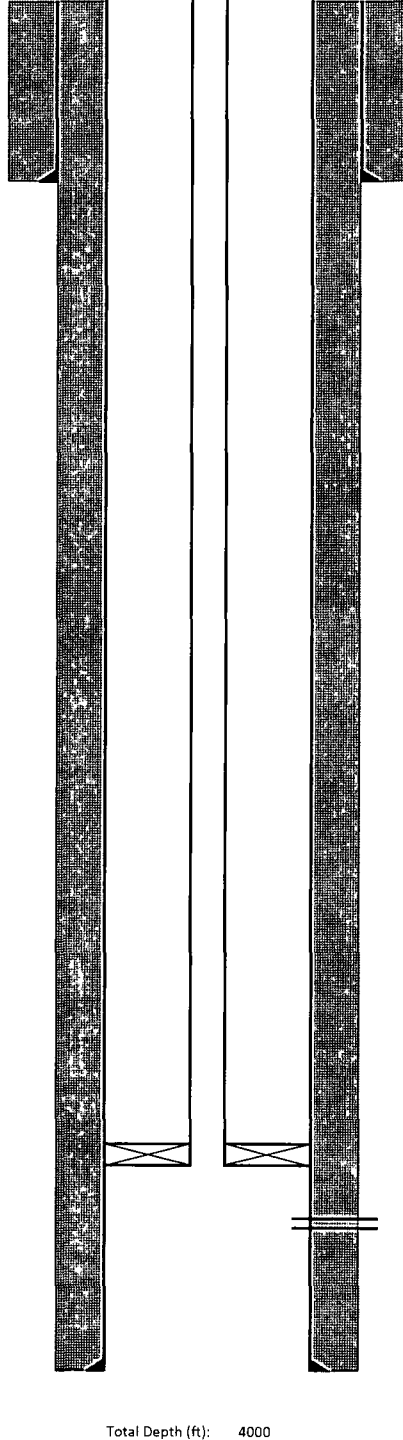
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #537
Well Location:
Calls 1887' FSL, 650' FWL
Unit L
Section 12
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

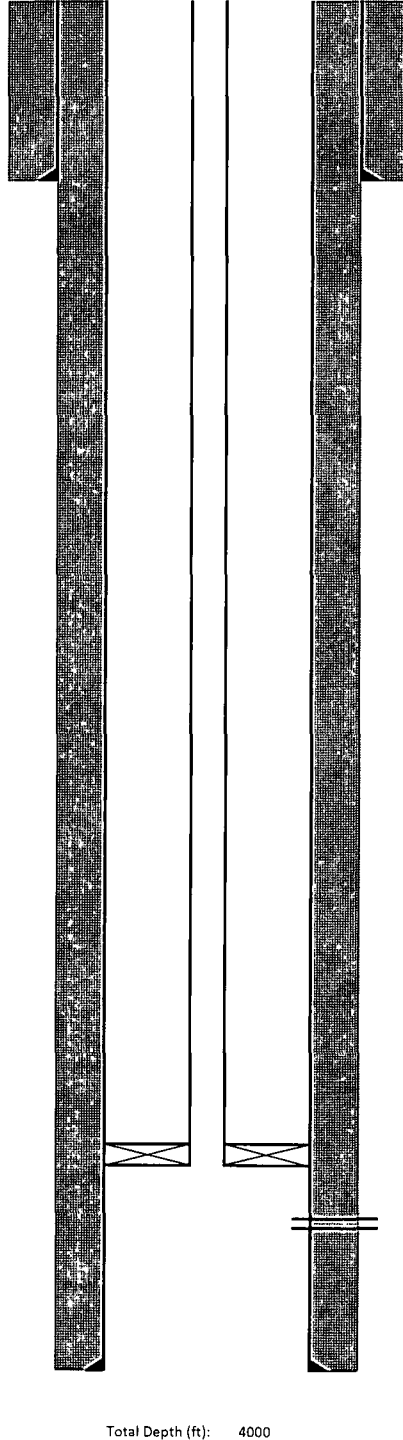
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #590
Well Location:
Calls: 2030' FSL, 345' FWL
Unit: L
Section: 13
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

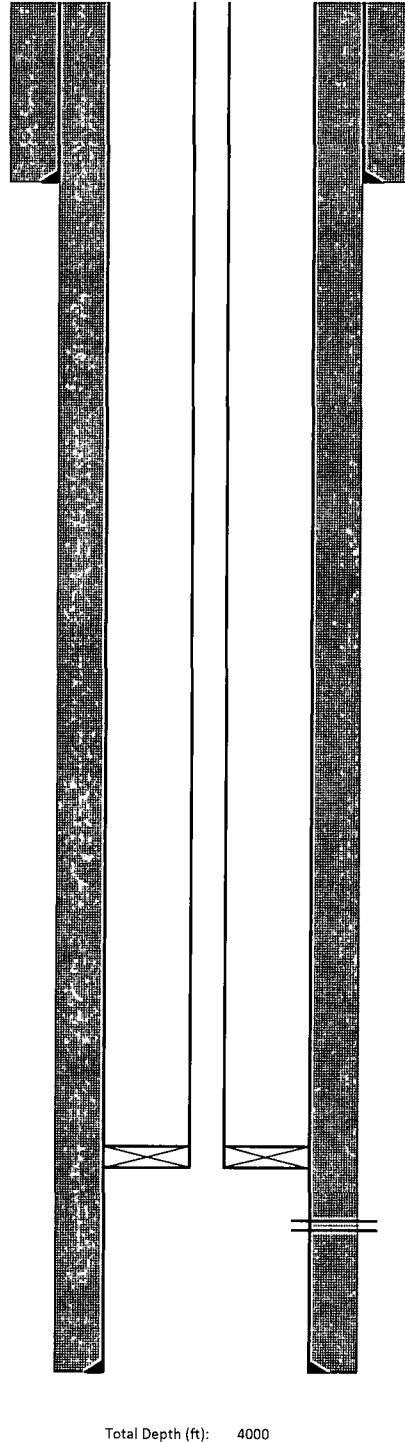
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #818
Well Location:
Calls: 689' FNL, 2026' FEL
Unit: B
Section: 10
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

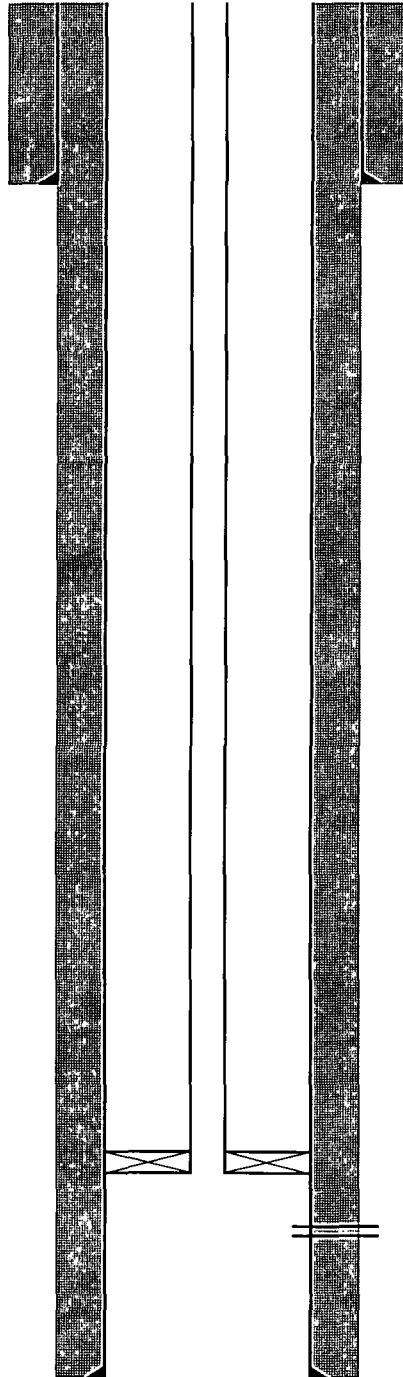
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #825
Well Location:
Calls: 2060' FNL, 745' FEL
Unit: H
Section: 11
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

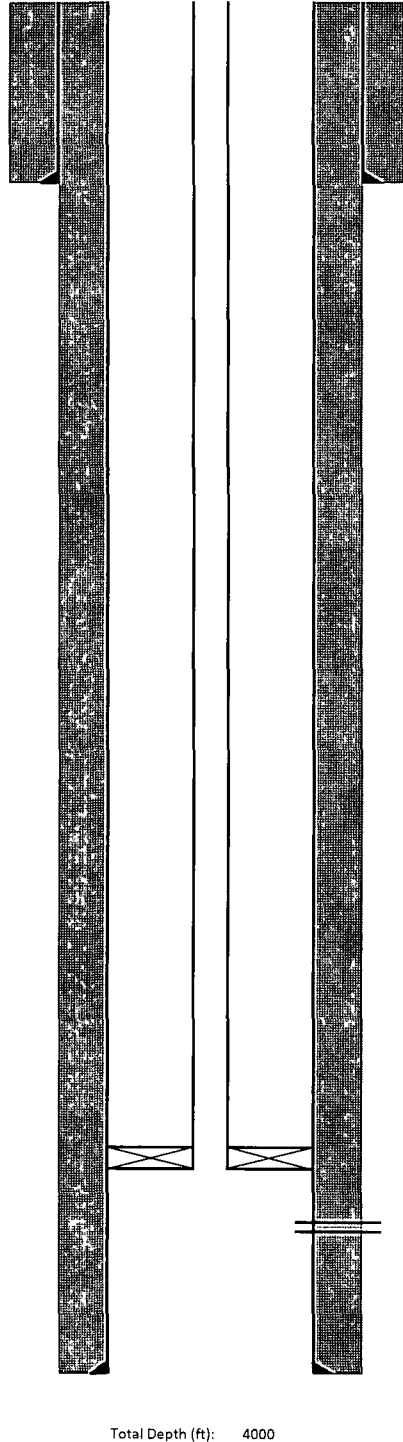
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #829
Well Location: 2027' FNL, 704' FEL
Calls: H
Unit: 10
Section: 8S
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

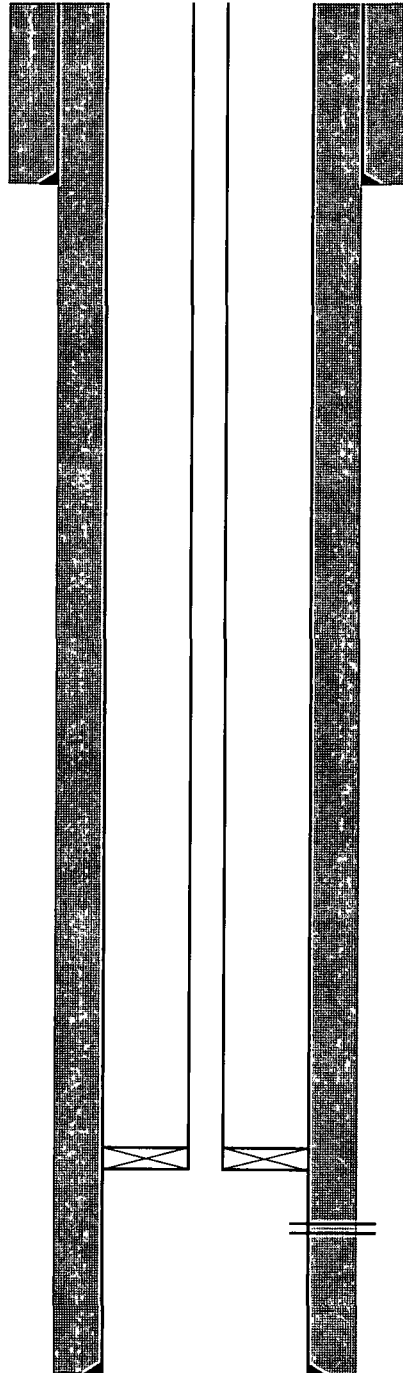
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #845
Well Location:
Calls 1661' FSL, 607' FWL
Unit L
Section 10
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

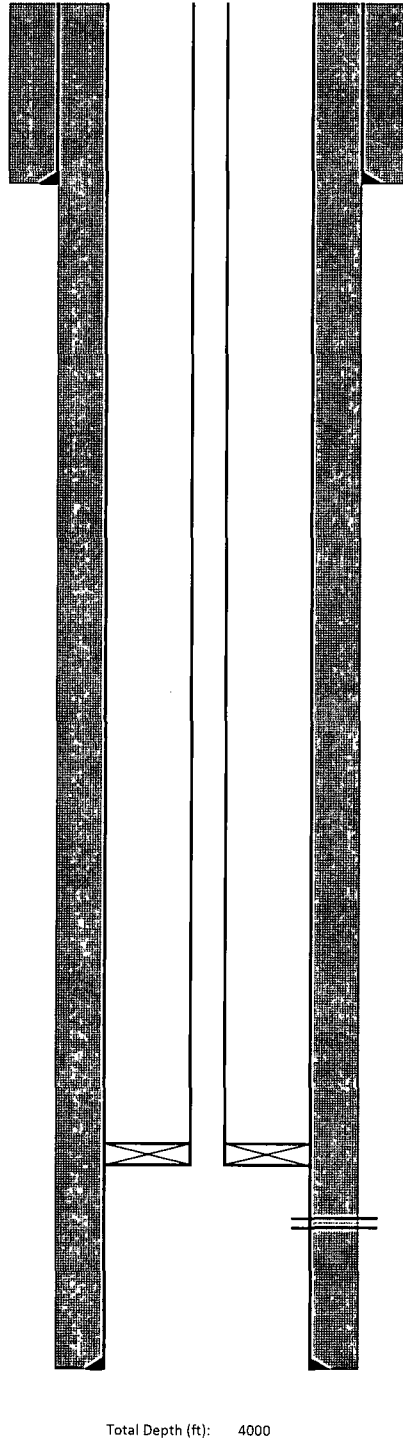
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #846
Well Location:
Calls: 1977' FSL, 1929' FWL
Unit: K
Section: 10
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

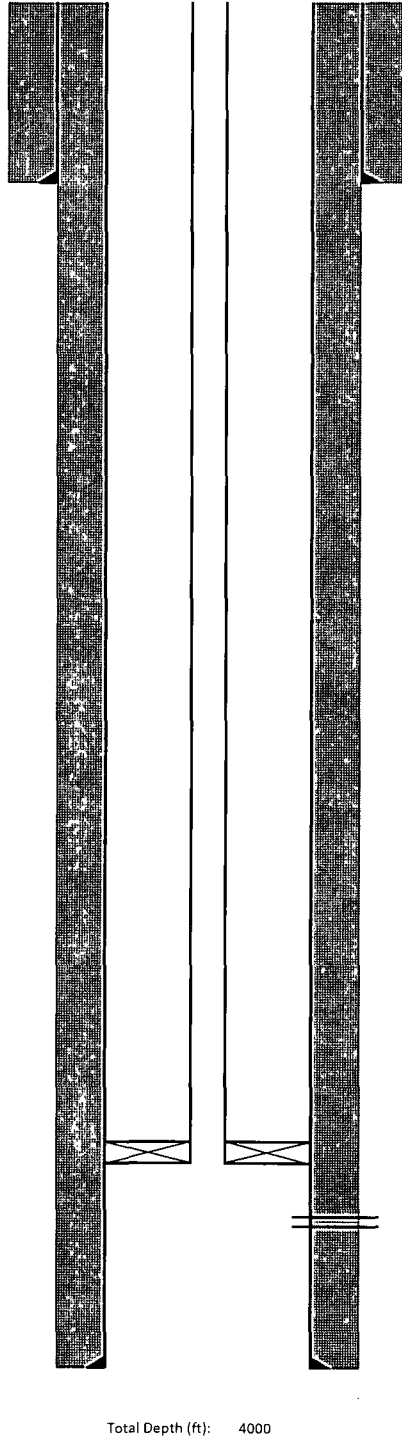
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #852
Well Location:
Calls: 604' FSL, 569' FWL
Unit: M
Section: 12
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

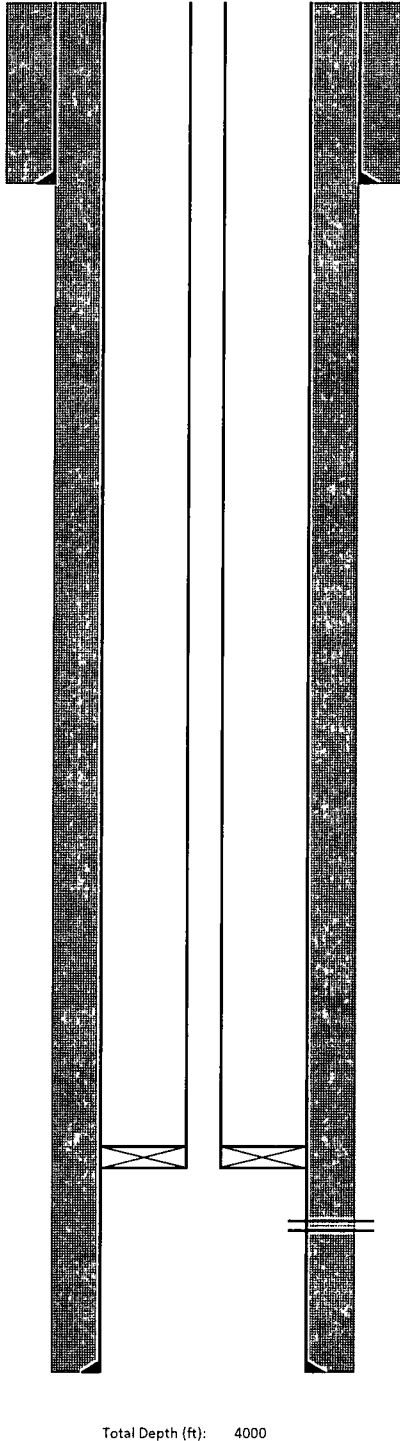
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #853
Well Location:
Calls 729' FSL, 651' FEL
Unit P
Section 11
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

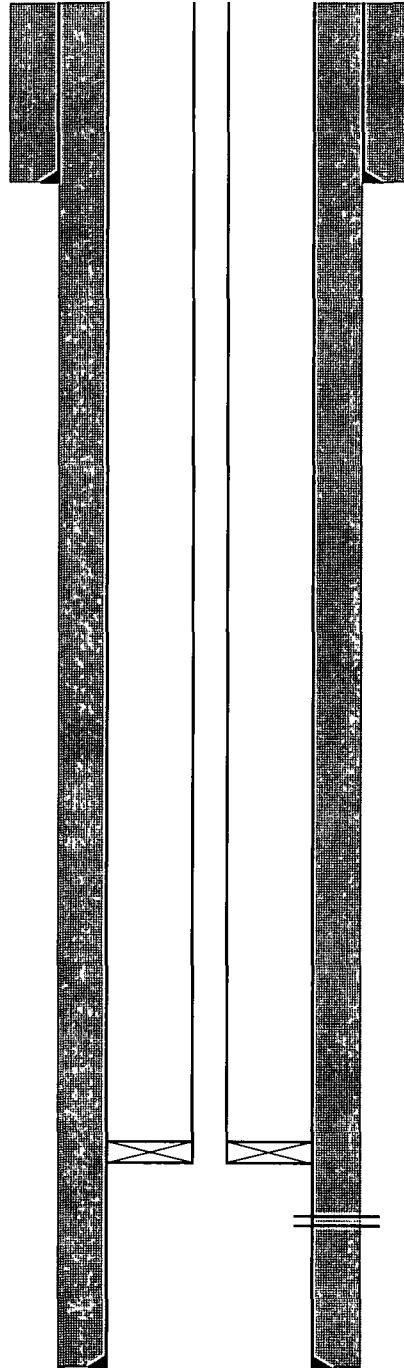
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #855
Well Location: 585' FSL, 1896' FWL
Calls: N
Unit: 11
Section: 85
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

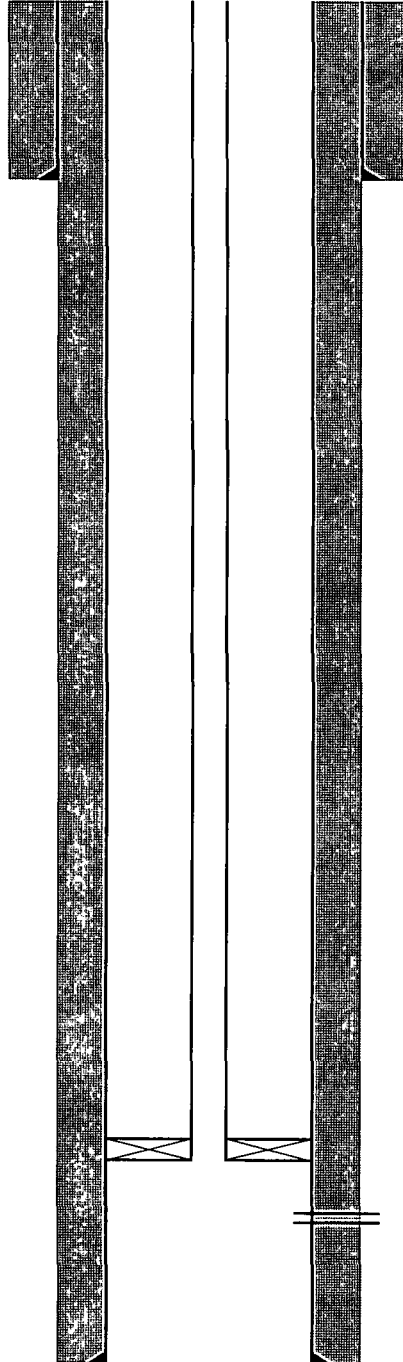
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #858
Well Location:
Calls: 638' FSL, 2019' FEL
Unit: O
Section: 10
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

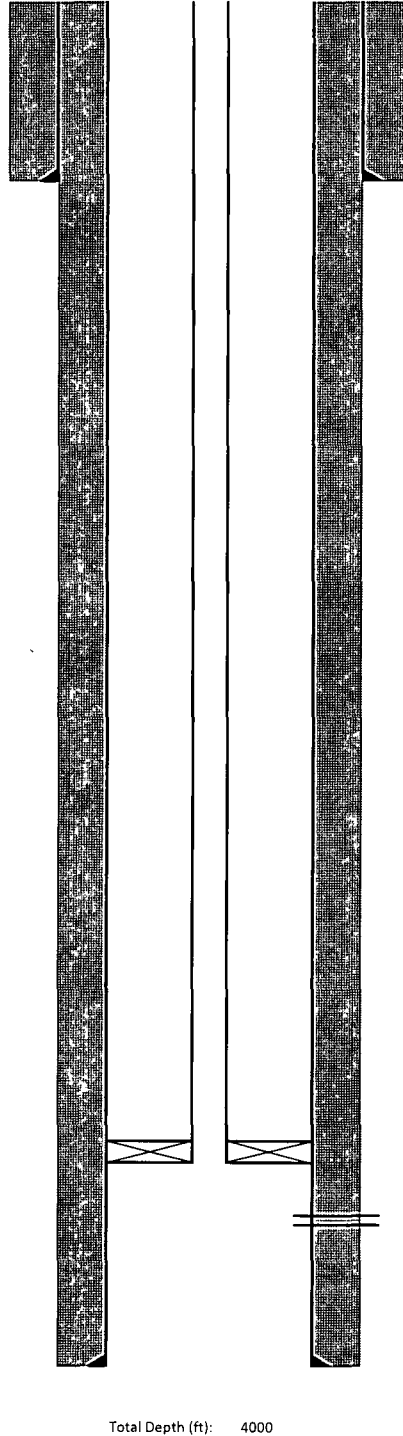
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #859
Well Location:
Calls: 658' FSL, 1923' FWL
Unit: N
Section: 10
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

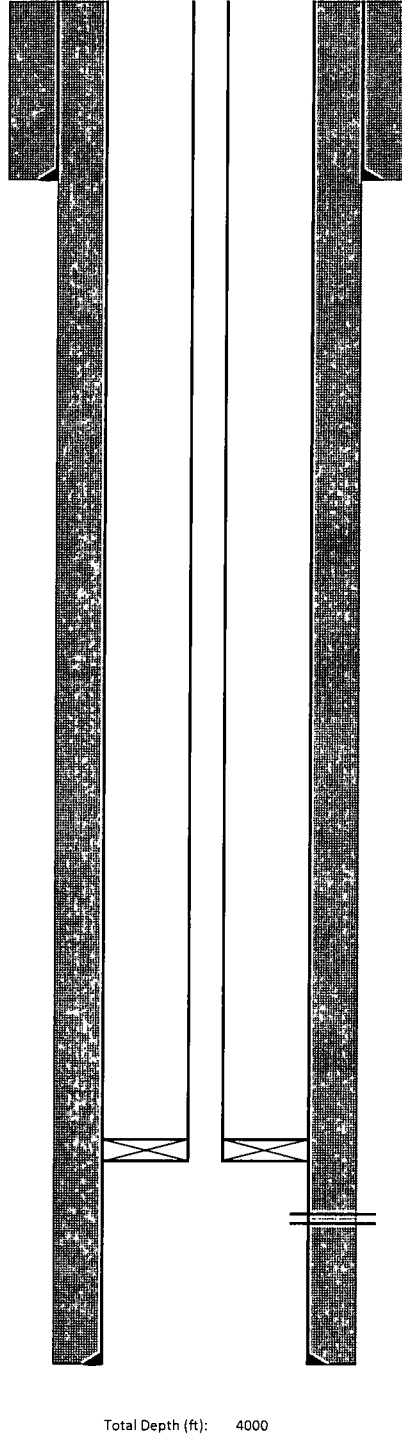
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #880
Well Location: 735' FNL, 2050' FEL
Calls: B
Unit: 14
Section: 8S
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

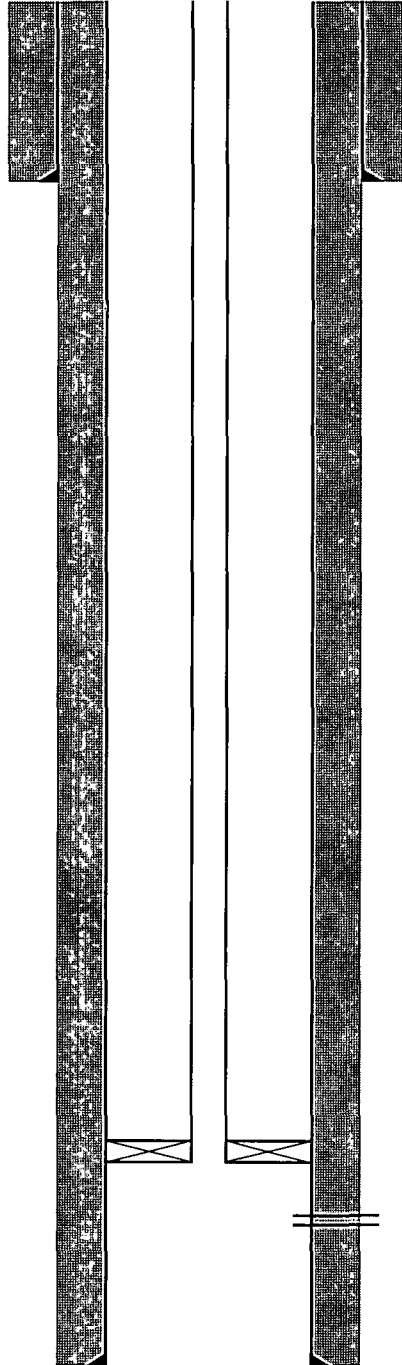
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #881
Well Location: 760' FNL, 735' FEL
Calls: A
Unit: 14
Section: 8S
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

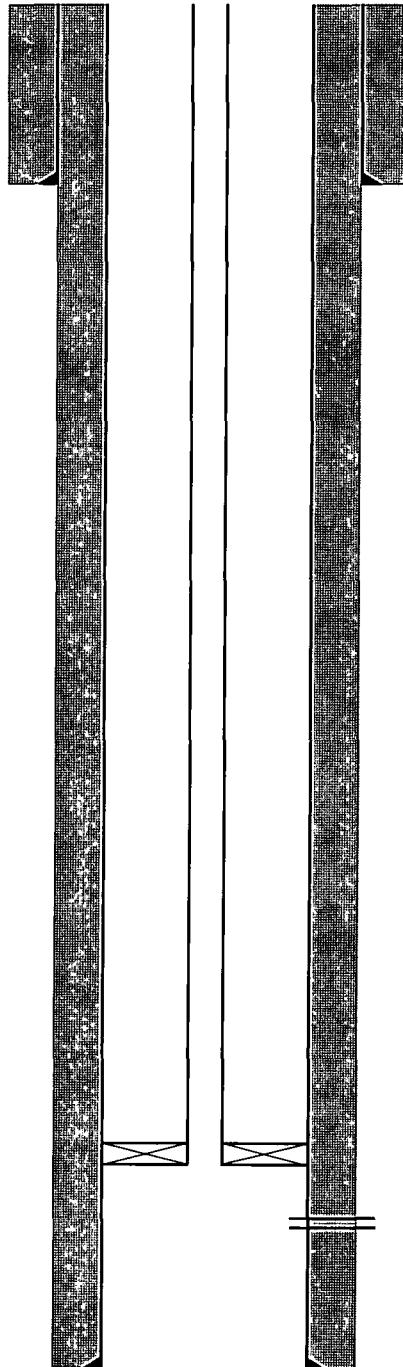
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #882
Well Location: 432' FNL, 293' FWL
Calls: D
Unit: 13
Section: 8S
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

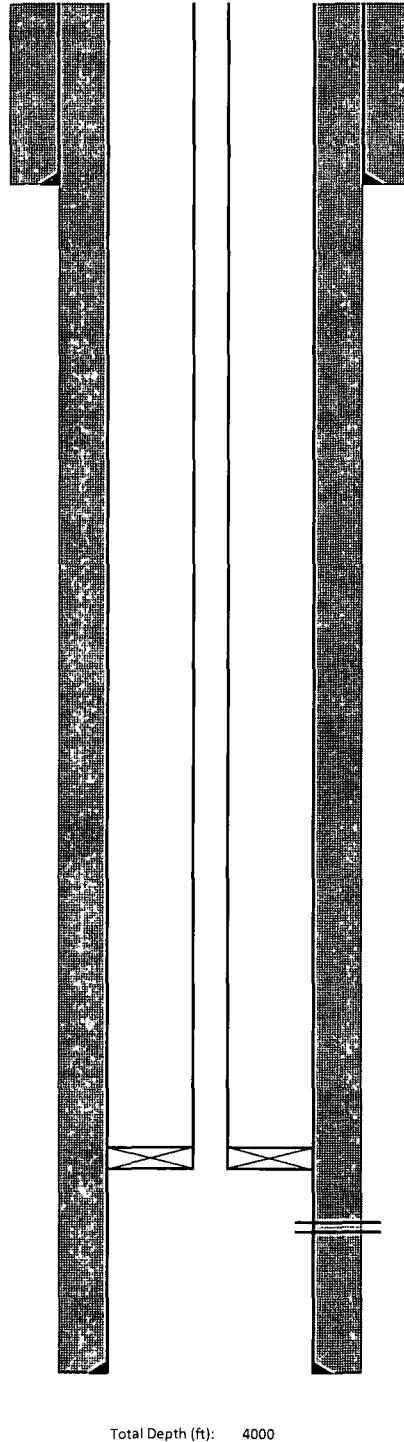
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #883
Well Location:
Calls: 2077' FNL, 629' FWL
Unit: E
Section: 13
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

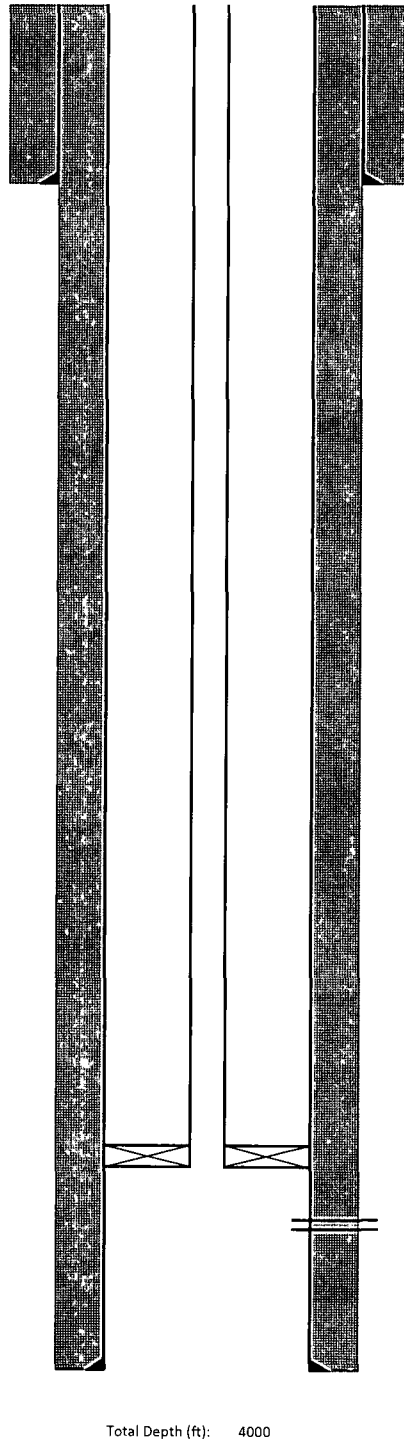
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #890
Well Location:
Calls: 1994' FNL, 1915' FWL
Unit: F
Section: 15
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

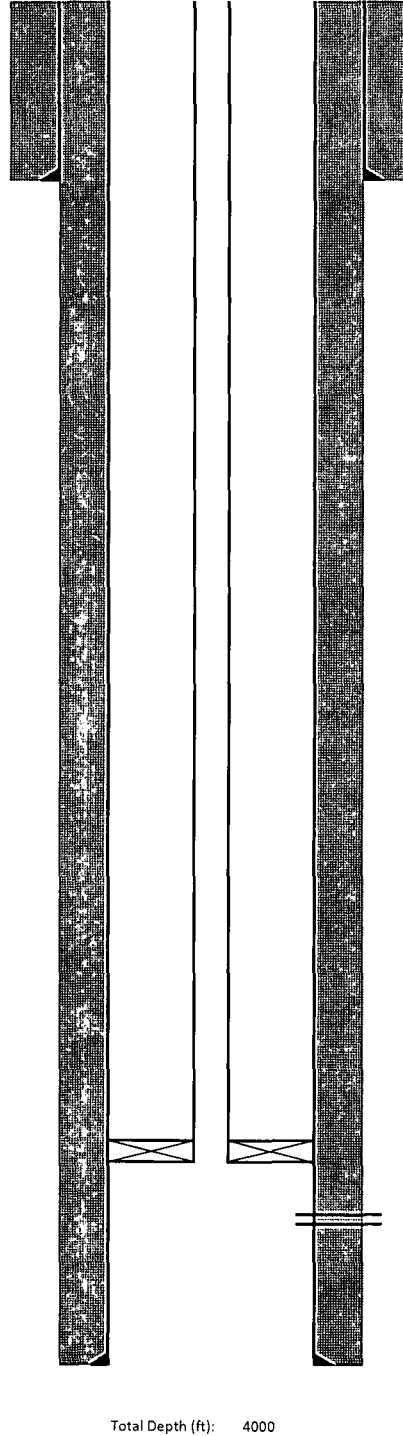
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #907
Well Location:
Calls 2021' FSL, 1926' FWL
Unit K
Section 15
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

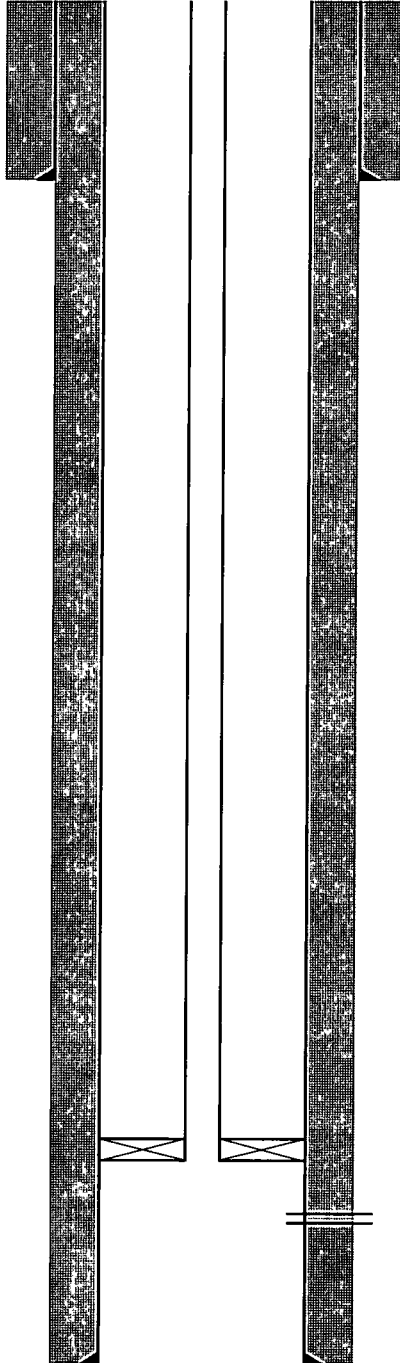
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #910
Well Location:
Calls: 2017' FSL, 639' FWL
Unit: L
Section: 14
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

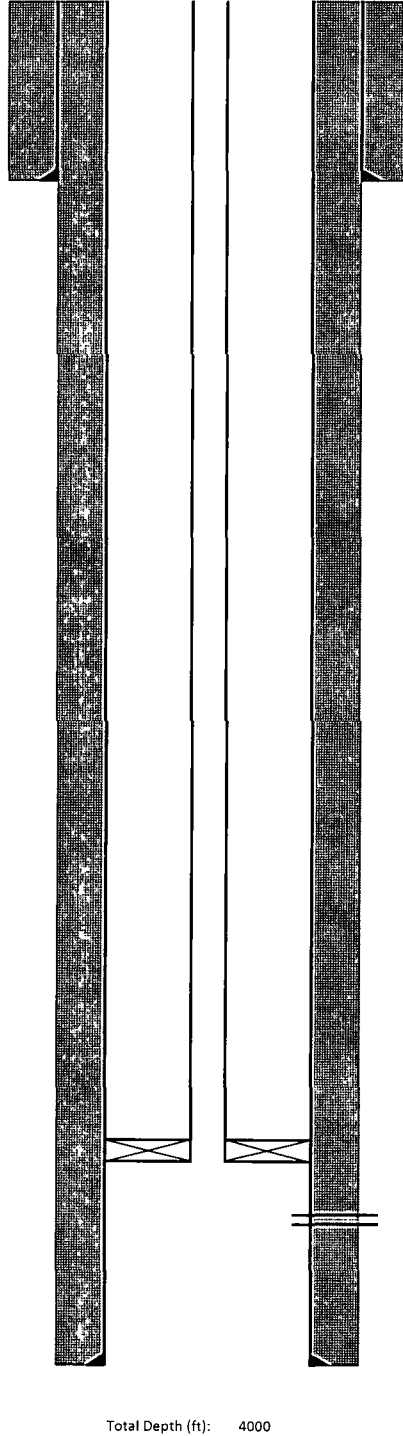
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #912
Well Location:
Calls: 1990' FSL, 2044' FEL
Unit: J
Section: 14
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

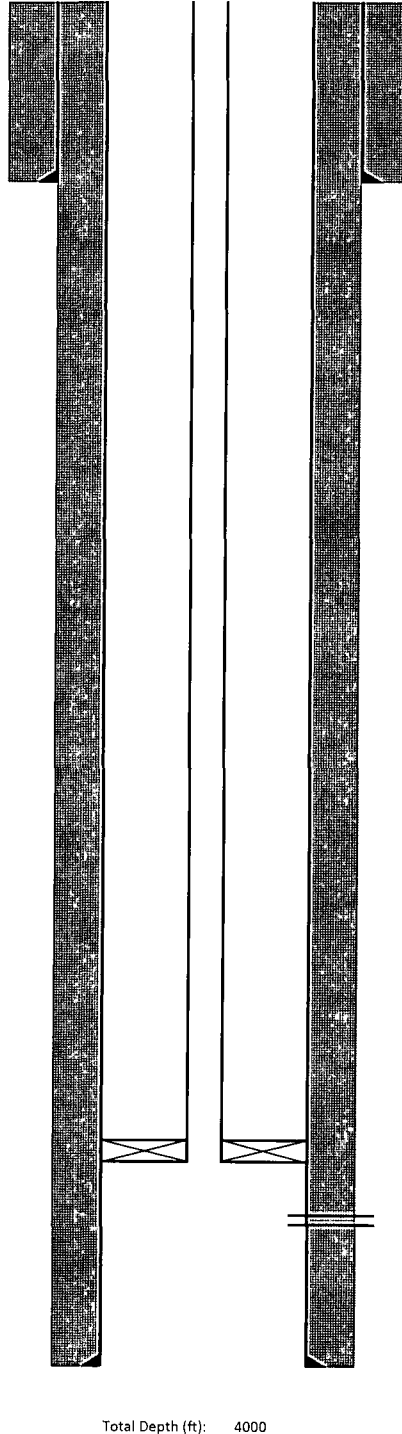
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #913
Well Location:
Calls 1990' FSL, 732' FEL
Unit I
Section 14
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #914
Well Location: 661' FSL, 688' FEL
Calls: P
Unit: 14
Section: 85
Township: 30E
Range:

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

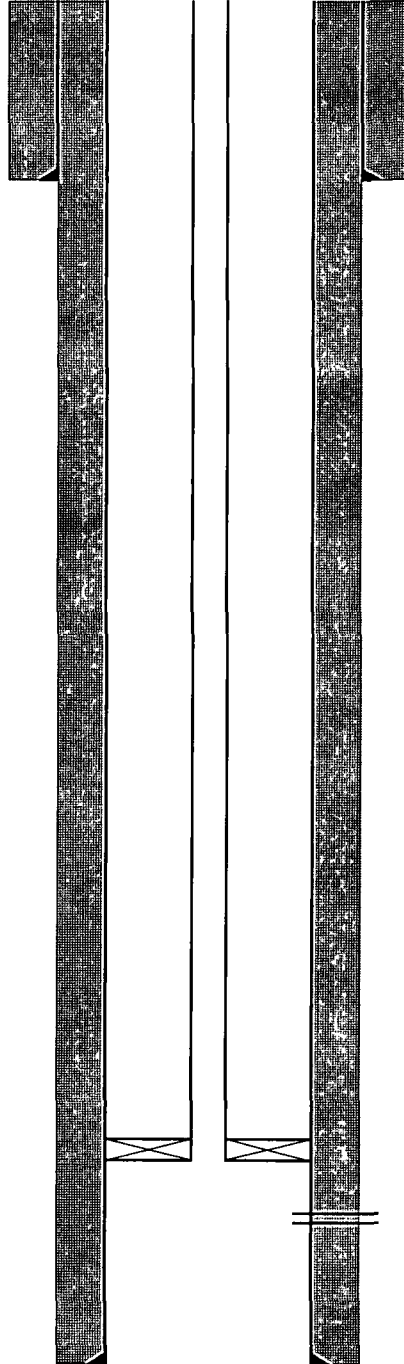
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #916
Well Location:
Calls: 688' FSL, 1951' FWL
Unit: N
Section: 14
Township: 8S
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

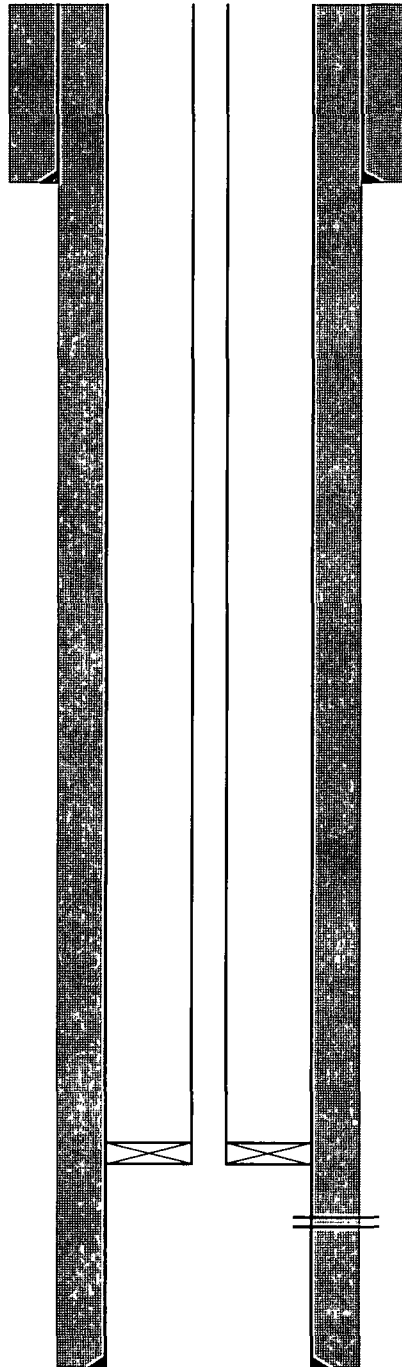
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #917
Well Location:
Calls 705' FSL, 645' FWL
Unit M
Section 14
Township 8S
Range 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

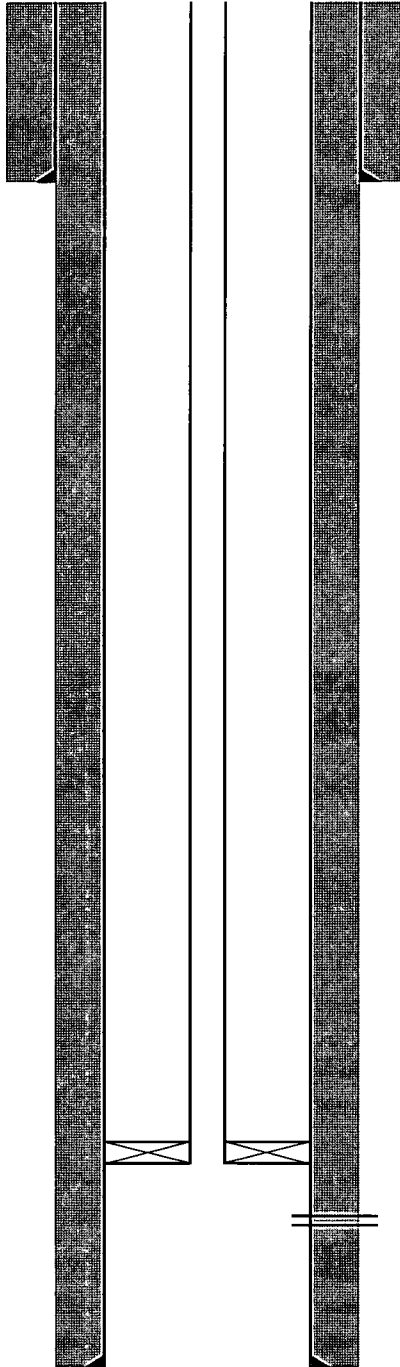
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #919
Well Location:
Calls: 703' FNL, 1992' FEL
Unit: O
Section: 15
Township: 85
Range: 30E

PROPOSED WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 500
Amount Cement (sx): 350
Top of Cement (ft): Surface
TOC Method: Circulated

Tubing

Tubing Size (in): 2 3/8
Tubing Weight (ppf): 4.7
Lining: Seal-tite

Packer

Model: Baker AD-1
Setting Depth (ft): 3150

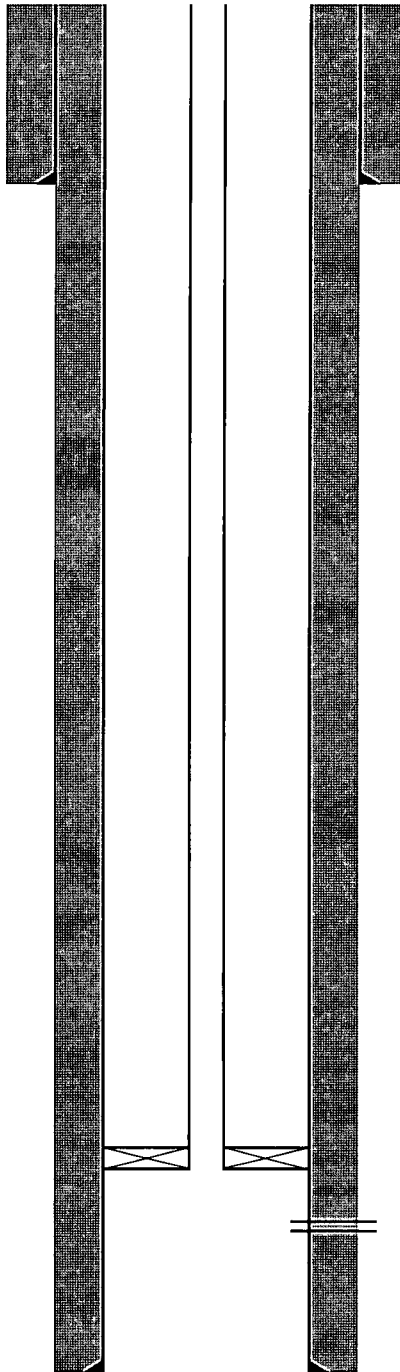
Perforations*

Top (ft): 3250
Bottom (ft): 3950

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 17
Setting Depth (ft): 4000
Amount Cement (sx): 800
Top of Cement (ft): 0
TOC Method: Circulated

CURRENT WELL CONSTRUCTION



Total Depth (ft): 4000

Notes

- (1) Injection interval is San Andres.
- (2) Injection will be through perforations.
- (3) Well originally completed as an injector.
- (4) No abandoned perforated intervals.
- (5) No other known productive intervals in area.

* Perforations shall be confined to unitized interval

ATTACHMENT TO FORM C-108
Cano Petro of New Mexico, Inc.
Cato San Andres Unit

Item IV

WELLBORE SCHEMATICS
PLUGGED WELLS IN AREA OF REVIEW

WELLBORE SCHEMATIC

Operator: Pan American Petroleum Corp.
Well Name: ABKO "B" Federal # 1
Well Location:
Calls 660' FSL, 660' FWL
Unit M
Section 1
Township 8S
Range 30E

PLUGGING DETAILS

10 sx cmt plug @ surface

30 sx cmt plug 400 - 500

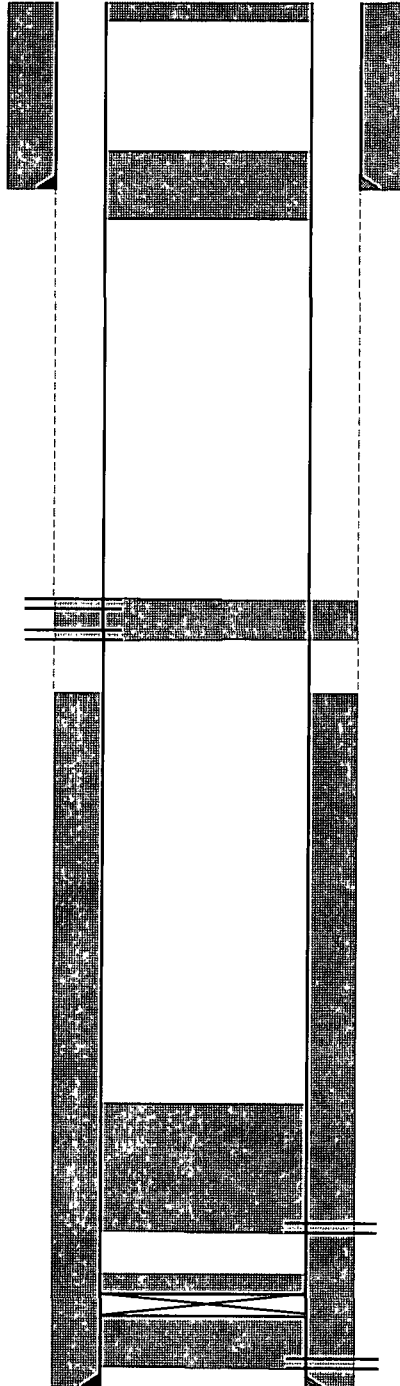
perforated 4 1/2 casing @ 1357

25 sx cmt plug @ 1357-1488

perforated 4 1/2 casing @ 1488

15 sx cmt plug 3330 - 3550

CICR @ 3555
squeezed w/ 150 sx
capped w/ 5 ft cmt



Total Depth (ft): 3662

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 457
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3468
Bottom (ft): 3536

Top (ft): 3569
Bottom (ft): 3614

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3662
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: Union Texas Petroleum Corp.
Well Name: Baskett # 1
Well Location: 1980' FSL, 1980' FWL
Calls Unit K
Section 11
Township 8S
Range 30E

PLUGGING DETAILS

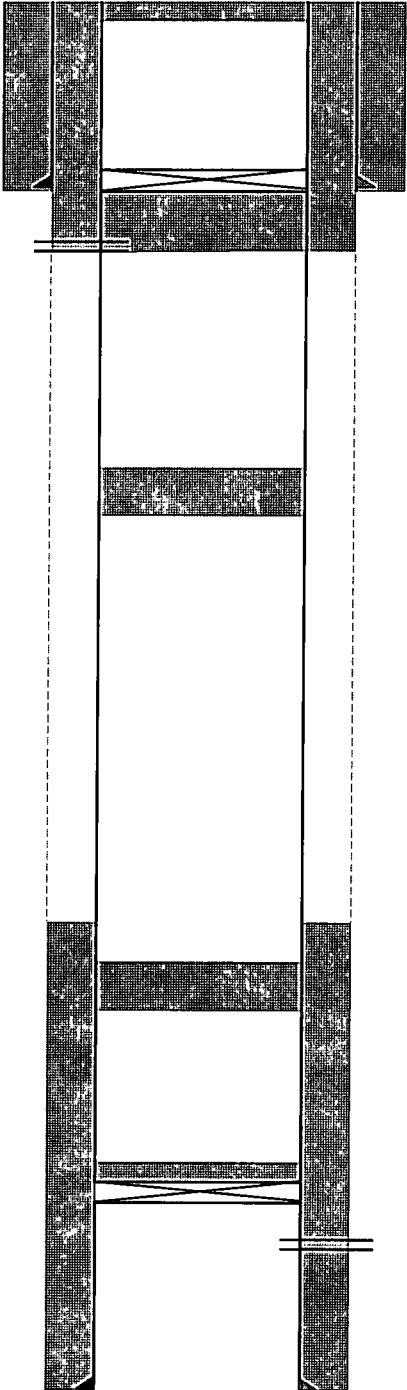
10 sx cmt plug at surface

CICR @ 505
perforated 4 1/2 casing @ 565
squeezed w/ 200 sx
cmt circulated to surface

cmt plug 1050 - 1150

40 sx cmt plug 2350 - 2450

CIBP @ 3400
capped w/ 35 ft cmt



Total Depth (ft): 3700

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 510
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3469
Bottom (ft): 3548

Production Casing

Hole Size (in): 6 3/4
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3700
Amount Cement (sx): 400
Top of Cement (ft): 2330
TOC Method: TS

WELLBORE SCHEMATIC

Operator: BP America Production Company
Well Name: Cato #1
Well Location: 660' FSL, 660' FWL
Calls: M
Unit: 3
Section: 8S
Township: 30E
Range:

PLUGGING DETAILS

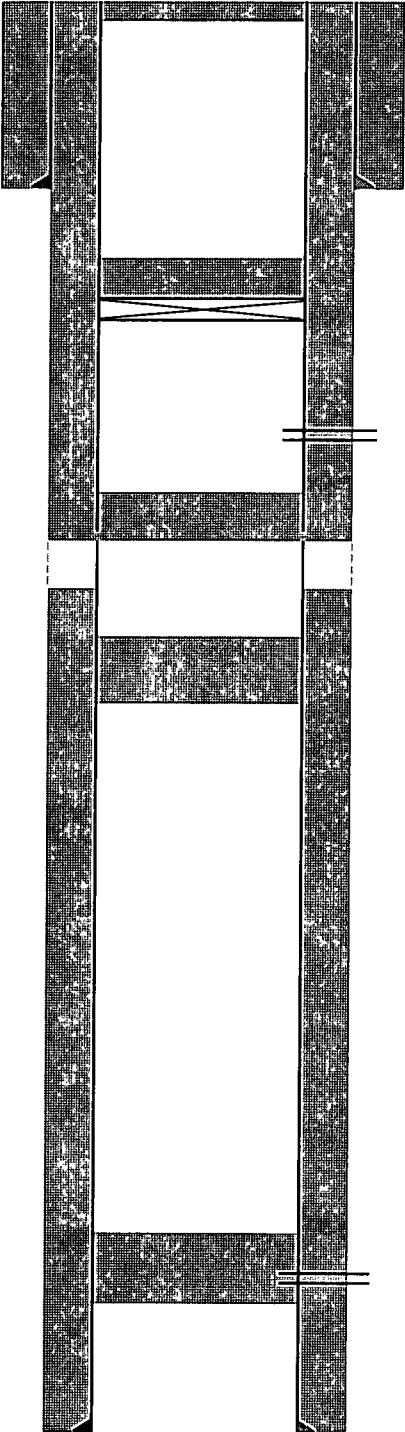
cmt plug surface - 10

cmt plug 900 - 950
CIBP @ 950

cut 4 1/2 casing @ 1260
lifted 8 ft & squeezed w/ 425 sx
cmt circulated to surface
TOC inside 4 1/2 casing unknown

20 sx cmt plug 1350 - 1700

25 sx cmt plug 3100 - 3373



Total Depth (ft): 3402

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 450
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 1005
Bottom (ft): 1035

Top (ft): 3252
Bottom (ft): 3363

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3402
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: MWJ Producing Co.
Well Name: Cato-State # 3
Well Location:
Calls 660' FSL, 1980' FEL
Unit O
Section 2
Township 8S
Range 30E

PLUGGING DETAILS

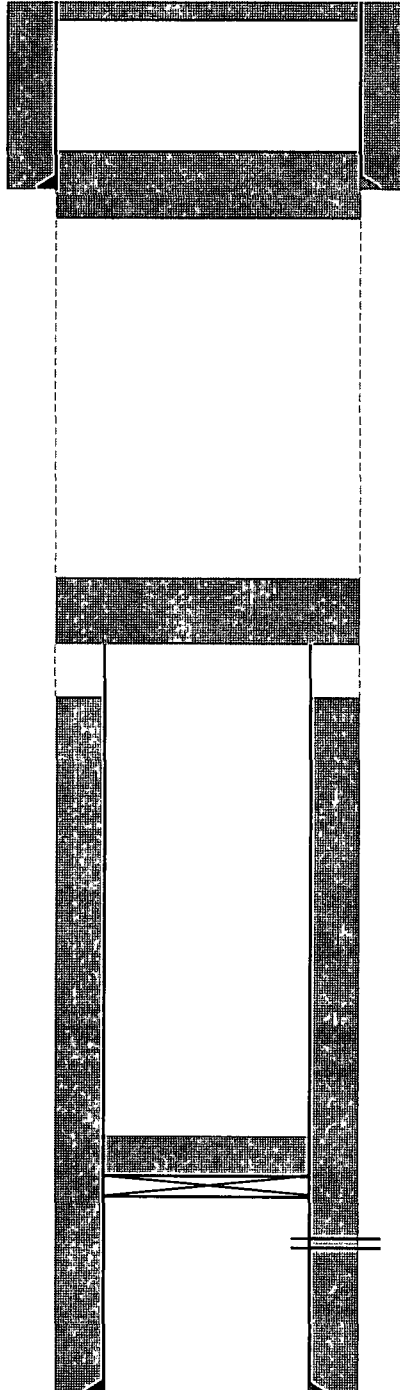
10 sx cmt plug @ surface

80 sx cmt plug 271 - 471

100 sx cmt plug 1778 - 1998

cut & pulled 5 1/2 casing @ 1998

CiBP @ 3360
capped w/ 35 ft cmt



Total Depth (ft): 3589

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 11
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 421
Amount Cement (sx): 225
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3412
Bottom (ft): 3532

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 5 1/2
Casing Weight (ppf): 15.5
Setting Depth (ft): 3588
Amount Cement (sx): 600
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: Southwest Production Corp.
Well Name: Coll Federal # 2
Well Location:
Calls 988' FNL, 1656' FWL
Unit C
Section 13
Township 8S
Range 30E

PLUGGING DETAILS

10 sx cmt plug @ surface

25 sx cmt plug to 727

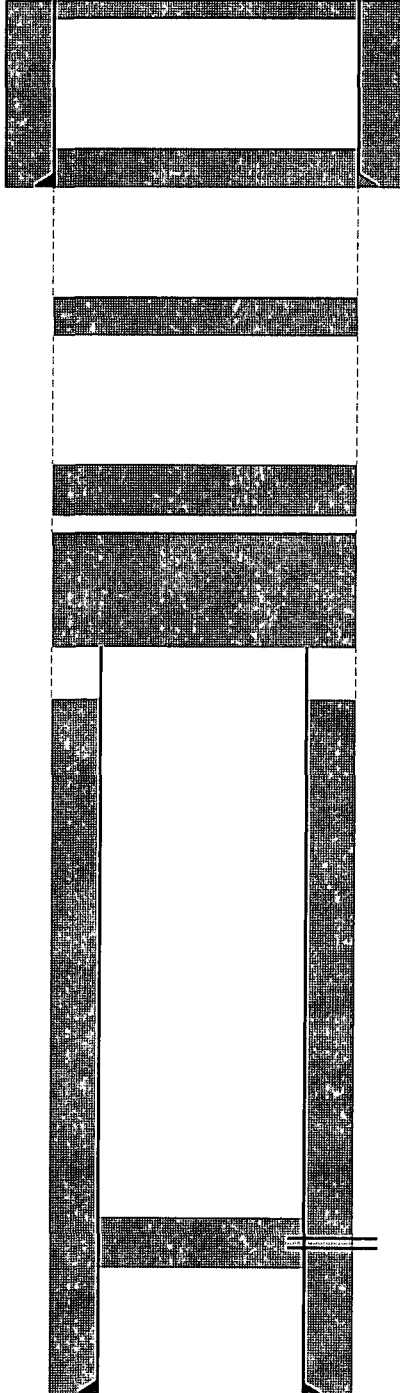
25 sx cmt plug to 1100

25 sx cmt plug 1650 - 1750

25 sx cmt plug to 2400

cut & pulled 4 1/2 casing @ 2400

25 sx cmt plug 3550 - 3573



Total Depth (ft): 3610

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 9 7/8
Casing Size (in): 7
Casing Weight (ppf): 23
Setting Depth (ft): 727
Amount Cement (sx): 200
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3555
Bottom (ft): 3573

Production Casing

Hole Size (in): 6 1/4
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3610
Amount Cement (sx): 100
Top of Cement (ft): 2690
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: R. H. Fulton
Well Name: Crosby #1
Well Location:
Calls 1980' FNL, 1980' FEL
Unit G
Section 3
Township 8S
Range 30E

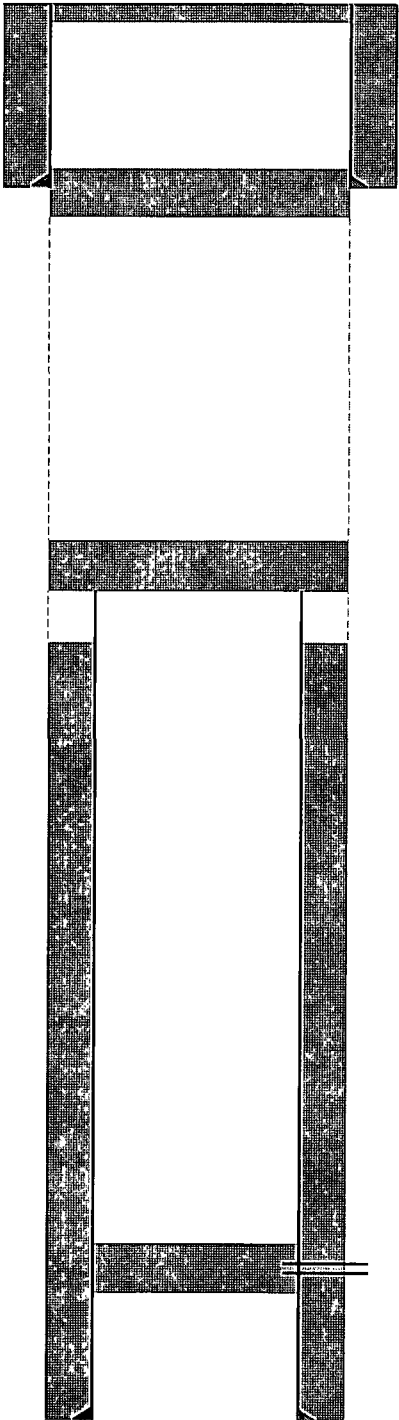
PLUGGING DETAILS

10 sx cmt plug @ surface

25 sx cmt plug to 340

cut & pulled 4 1/2 casing @ 2400
25 sx cmt plug to 2400

25 sx cmt plug to 3383



Total Depth (ft): 3480

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 332
Amount Cement (sx): 250
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3306
Bottom (ft): 3383

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3480
Amount Cement (sx): 200
Top of Cement (ft): 2651
TOC Method: Calculated

WELLBORE SCHEMATIC

Operator: Pan American Petroleum Corporation
Well Name: Crosby "E" #2
Well Location:
Calls 1980' FSL, 660' FWL
Unit L
Section 10
Township 8S
Range 30E

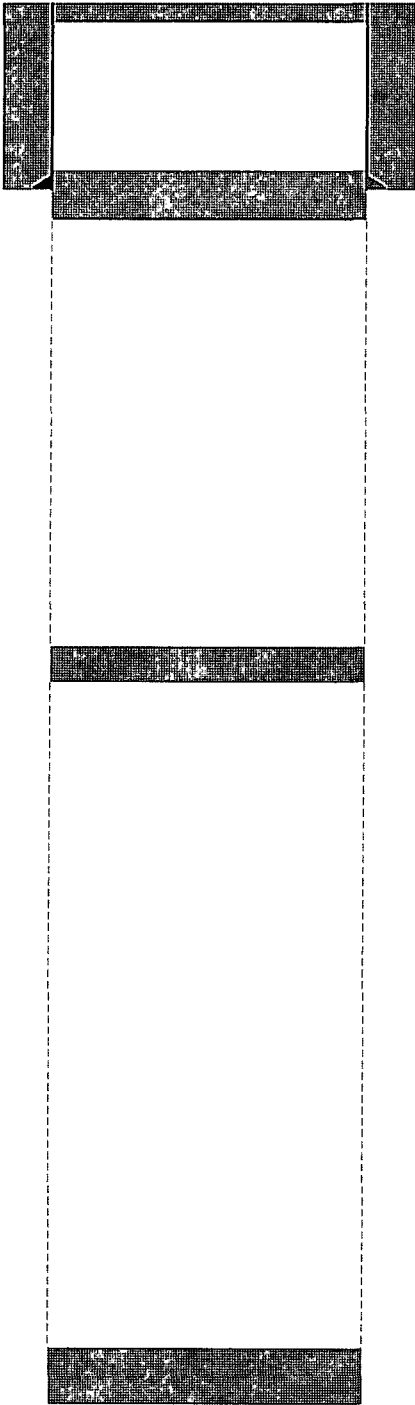
PLUGGING DETAILS

10 sx cmt plug @ surface

50 sx cmt plug to 338

25 sx cmt plug to 1000

50 sx cmt plug to 1491



Total Depth (ft): 1493

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 288
Amount Cement (sx): 250
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): -----
Bottom (ft): -----

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): -----
Casing Weight (ppf): -----
Setting Depth (ft): -----
Amount Cement (sx): -----
Top of Cement (ft): -----
TOC Method: -----

WELLBORE SCHEMATIC

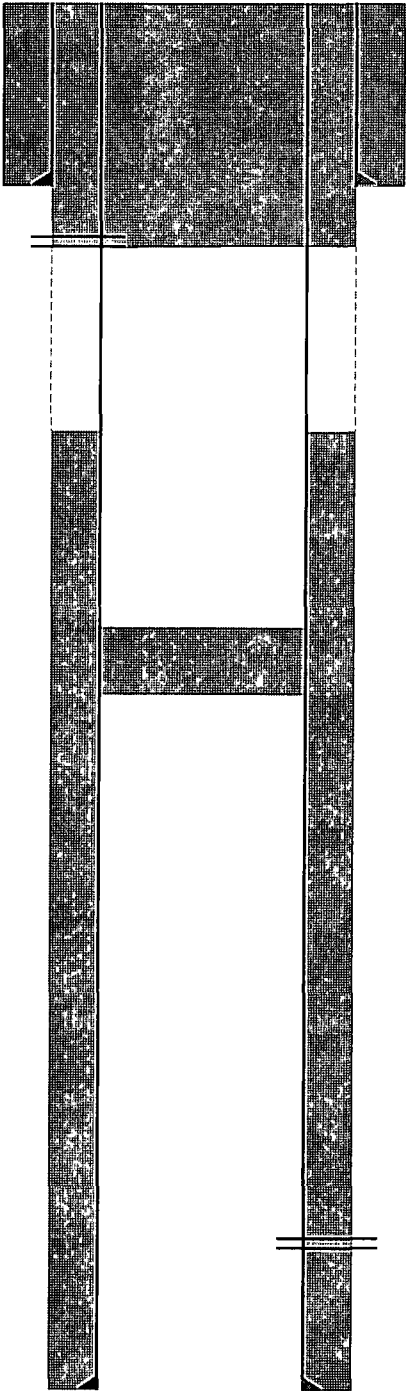
Operator: United Heritage New Mexico Corp.
Well Name: CSAU # 4
Well Location: 1980' FSL, 660' FEL
Calls
Unit I
Section 3
Township 8S
Range 30E

PLUGGING DETAILS

10 sx cmt plug surface - 50

perforated 4 1/2 casing @ 494
squeezed w/ 135 sx
cmt circulated to surface
TOC inside 4 1/2 casing @ 50

25 sx cmt plug 1425 - 1525



Total Depth (ft): 3460

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 454
Amount Cement (sx): 200
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3315
Bottom (ft): 3432

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3460
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: United Heritage New Mexico Corp.
Well Name: CSAU # 18
Well Location:
Calls 660' FNL, 1980' FEL
Unit 8
Section 10
Township 8S
Range 30E

PLUGGING DETAILS

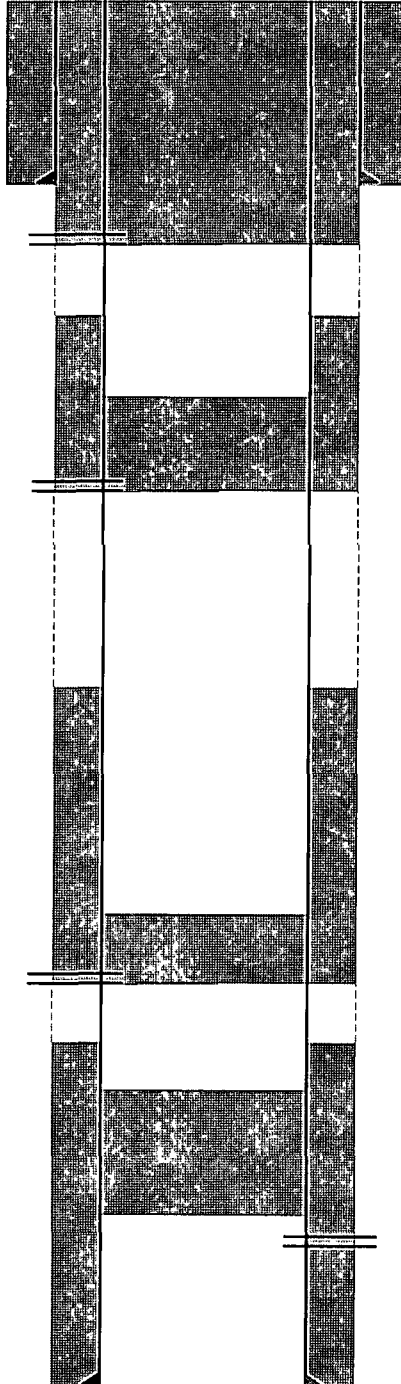
13 sx cmt plug @ 83

perforated 4 1/2 casing @ 350
squeezed w/ 130 sx
cmt circulated to surface
TOC inside 4 1/2 casing @ 83

perforated 4 1/2 casing @ 1215
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 989

perforated 4 1/2 casing @ 2612
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 2358

25 sx cmt plug 2914 - 3100



Total Depth (ft): 3440

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 298
Amount Cement (sx): 250
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3292
Bottom (ft): 3400

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3440
Amount Cement (sx): 300
Top of Cement (ft): Unknown
TOC Method: -----

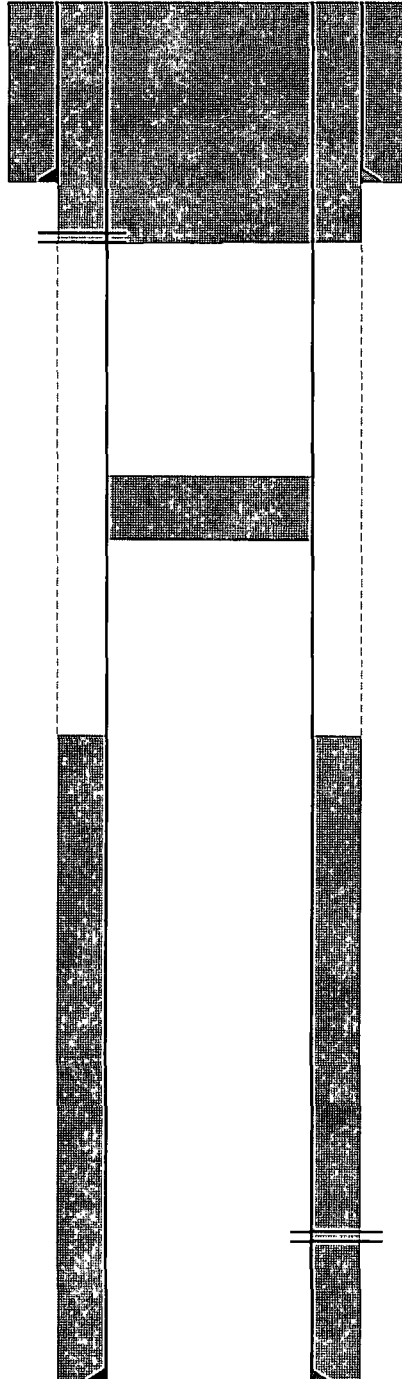
WELLBORE SCHEMATIC

Operator: United Heritage New Mexico Corp.
Well Name: CSAU # 22
Well Location:
Calls 660' FNL, 1980' FEL
Unit B
Section 11
Township 8S
Range 30E

PLUGGING DETAILS

perforated 4 1/2 casing @ 340
squeezed w/ 100 sx
cmt circulated to surface
TOC inside 4 1/2 casing @ surface

35 sx cmt plug 981 - 1073



Total Depth (ft): 3571

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 20
Setting Depth (ft): 290
Amount Cement (sx): 250
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3426
Bottom (ft): 3542

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3571
Amount Cement (sx): 300
Top of Cement (ft): 2328
TOC Method: Calculated

Operator:	Kelt Oil & Gas
Well Name:	CSAU # 24
Well Location:	
Calls	1980' FNL, 660' FWL
Unit	E
Section	12
Township	8S
Range	30E

10 sx cmt plug surface - 50

15 sx cmt plug 410 - 510

15 sx cmt plug 1400 - 1500

4 sx cmt plug 3350 - 3450

CIBP @ 3450

CICR @ 3610
squeezed w/ 150 sx

Total Depth (ft): 3706

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in):	11
Casing Size (in):	8 5/8
Casing Weight (ppf):	24
Setting Depth (ft):	460
Amount Cement (sx):	300
Top of Cement (ft):	Surface
TOC Method:	Circulated

Perforations

Top (ft):	3550
Bottom (ft):	3595
Top (ft):	3630
Bottom (ft):	3676

Production Casing

Hole Size (in):	7 7/8
Casing Size (in):	4 1/2
Casing Weight (ppf):	9.5
Setting Depth (ft):	3706
Amount Cement (sx):	800
Top of Cement (ft):	391
TOC Method:	Calculated

WELLBORE SCHEMATIC

Operator: United Heritage New Mexico Corp.
Well Name: CSAU # 26
Well Location:
Calls 180' FNL, 1980' FEL
Unit G
Section 11
Township 8S
Range 30E

PLUGGING DETAILS

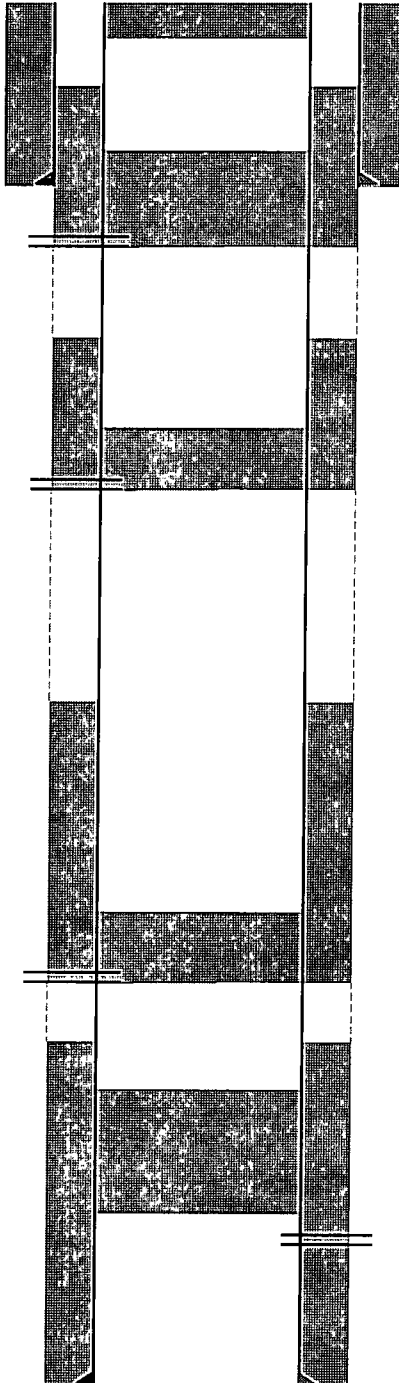
5 sx cmt plug surface - 60

perforated 4 1/2 casing @ 503
squeezed w/ 60 sx
TOC inside 4 1/2 casing @ 394

perforated 4 1/2 casing @ 1506
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 1385

perforated 4 1/2 casing @ 2612
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 2456

25 sx cmt plug 3020 - 3381



Total Depth (ft): 3605

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 453
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3456
Bottom (ft): 3575

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3605
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: United Heritage New Mexico Corp.
Well Name: CSAU # 50
Well Location: 1980' FSL, 1980' FEL
Calls J
Unit 11
Section 8S
Township 8S
Range 30E

PLUGGING DETAILS

ORIGINAL WELL CONSTRUCTION

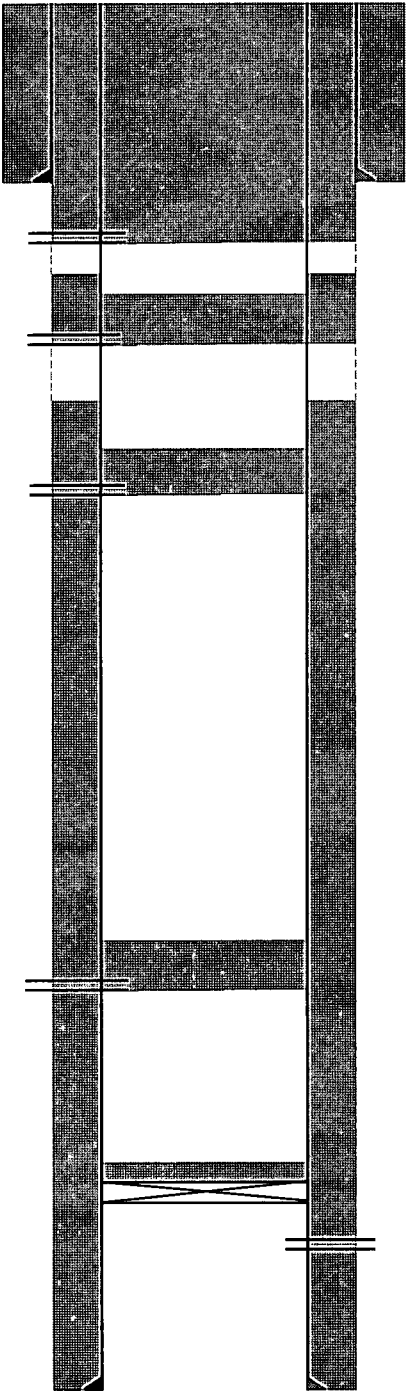
perforated 4 1/2 casing @ 509
squeezed w/ 140 sx
cmt circulated to surface
TOC inside 4 1/2 casing @ surface

perforated 4 1/2 casing @ 799
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 650

perforated 4 1/2 casing @ 1550
could not pump in
20 sx cmt plug 1350 - 1600

perforated 4 1/2 casing @ 2612
could not pump in
25 sx cmt plug to 2660

CIBP @ 3450
capped w/ 5 sx cmt



Total Depth (ft): 3650

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 457
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3494
Bottom (ft): 3610

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3650
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: United Heritage New Mexico Corp.
Well Name: CSAU # 54
Well Location: 660' FSL, 1980' FEL
Calls: O
Unit: 11
Section: 85
Township: 30E
Range:

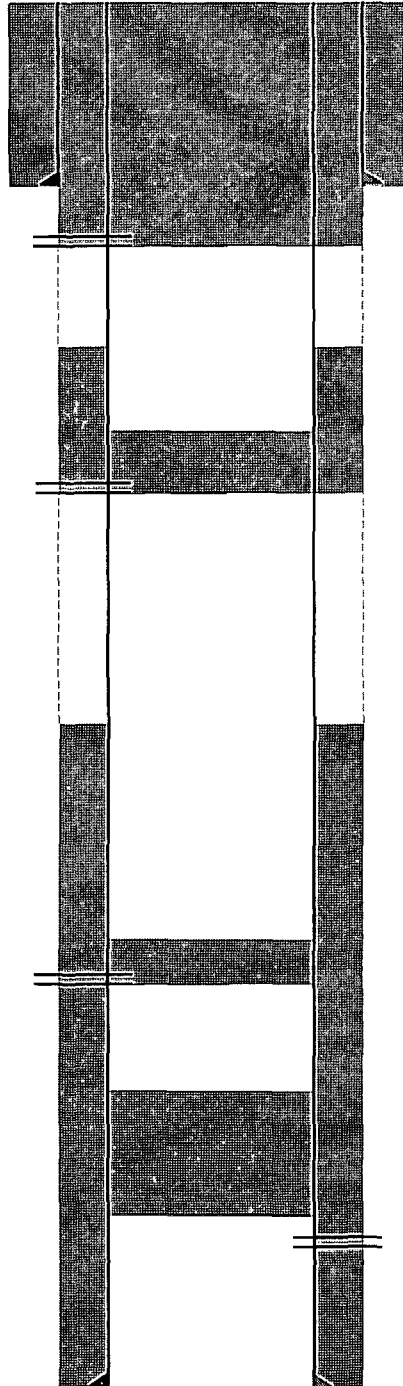
PLUGGING DETAILS

perforated 4 1/2 casing @ 509
squeezed w/ 195 sx
cmt circulated to surface
TOC inside 4 1/2 casing @ surface

perforated 4 1/2 casing @ 1415
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 1293

perforated 4 1/2 casing @ 2615
could not pump in
25 sx cmt plug 2330 - 2615

25 sx cmt plug 3202 - 3450



Total Depth (ft): 3644

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 458
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3500
Bottom (ft): 3610

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3644
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: UHC New Mexico Corp.
Well Name: CSAU # 78
Well Location:
Calls 660' FNL, 660' FWL
Unit D
Section 14
Township 8S
Range 30E

PLUGGING DETAILS

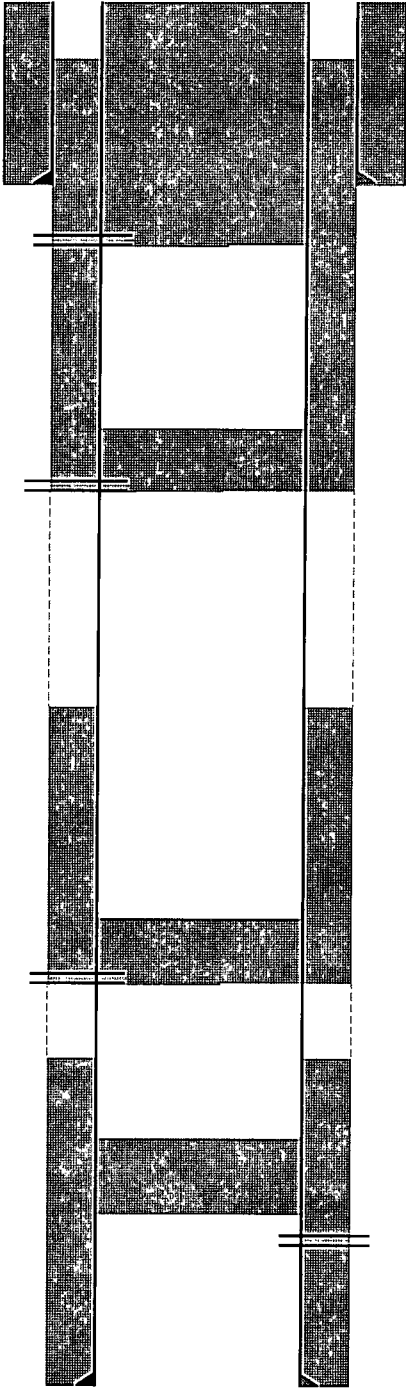
45 sx cmt plug 515 - surface

perforated 4 1/2 casing @ 500
could not pump in

perforated 4 1/2 casing @ 1483
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 1358

perforated 4 1/2 casing @ 2612
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 2456

cmt plug 3050 - 3350



Total Depth (ft): 3594

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 450
Amount Cement (sx): 750
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3433
Bottom (ft): 3543

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3594
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

Operator: UHC New Mexico Corp.
Well Name: CSAU # 79
Well Location: 660' FNL, 1980' FWL
Calls
Unit C
Section 14
Township 8S
Range 30E

PLUGGING DETAILS

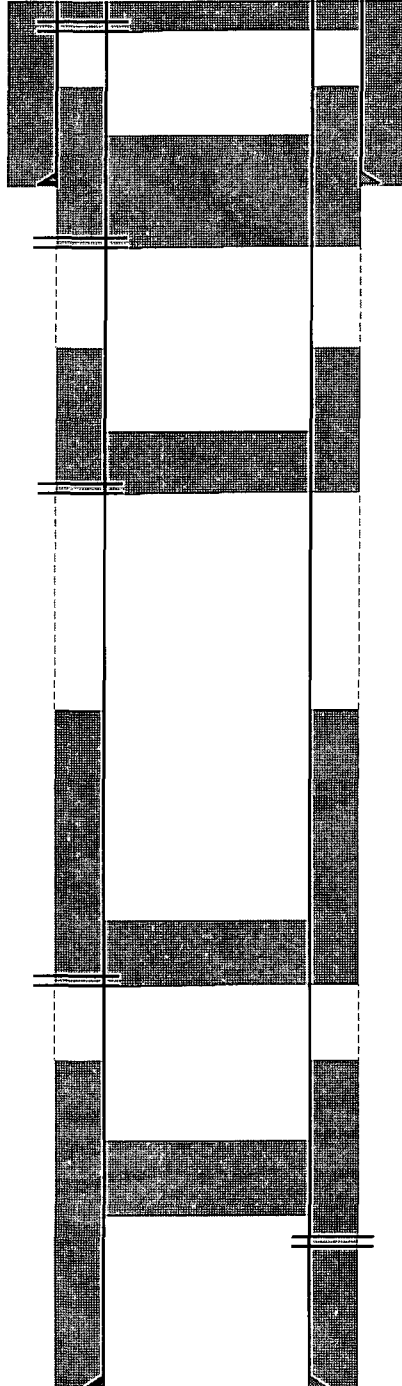
perforated 4 1/2 casing @ 60
squeezed w/ unknown sx
cmt circulated to surface
TOC inside 4 1/2 casing @ surface

perforated 4 1/2 casing @ 515
squeezed w/ 156 sx
TOC inside 4 1/2 casing @ 412

perforated 4 1/2 casing @ 1365
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 1260

perforated 4 1/2 casing @ 2612
squeezed w/ 45 sx
TOC inside 4 1/2 casing @ 2507

20 sx cmt plug 3280 - 3400



Total Depth (ft): 3602

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 465
Amount Cement (sx): 300
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3452
Bottom (ft): 3568

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3602
Amount Cement (sx): 800
Top of Cement (ft): Unknown
TOC Method: -----

WELLBORE SCHEMATIC

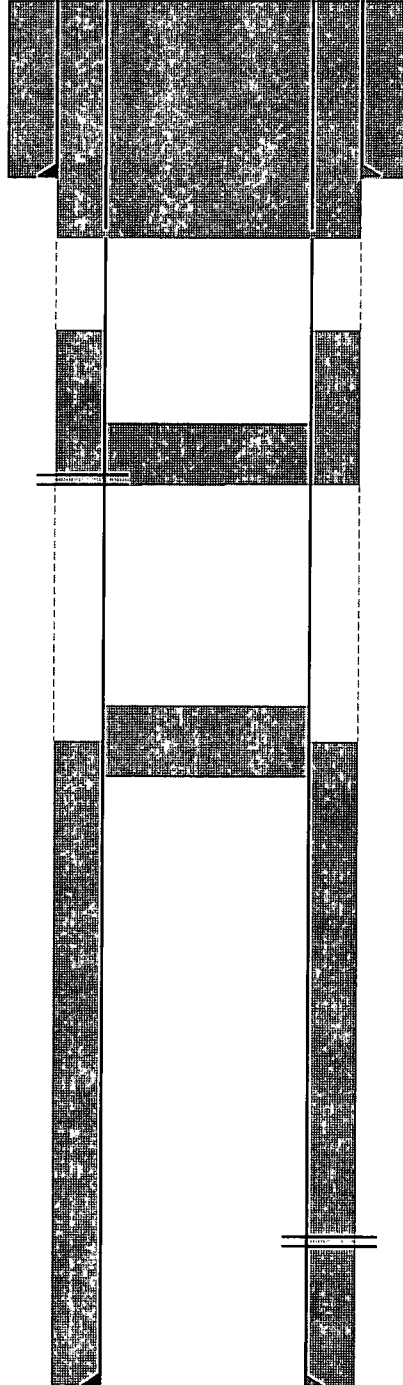
Operator: UHC New Mexico Corp.
Well Name: CSAU # 80
Well Location:
Calls 660' FNL, 1980' FEL
Unit B
Section 14
Township 8S
Range 30E

PLUGGING DETAILS

hole in casing @ 695
squeezed w/ 12 bbls cmt
circulated to surface
TOC inside 4 1/2 casing @ surface

perforated 4 1/2 casing @ 1250
squeezed w/ 55 sx
TOC inside 4 1/2 casing @ 806

25 sx cmt plug 1689 - 2650



Total Depth (ft): 3670

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 253
Amount Cement (sx): 250
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): 3494
Bottom (ft): 3612

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3670
Amount Cement (sx): 300
Top of Cement (ft): 2427
TOC Method: Calculated

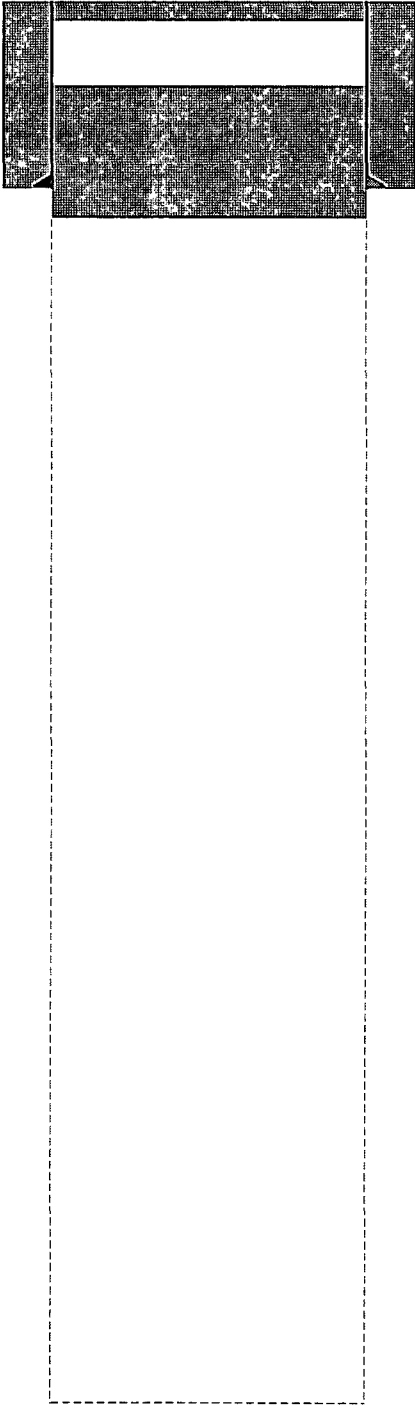
WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #562
Well Location:
 Calls 130' FSL, 165' FWL
 Unit M
 Section 12
 Township 8S
 Range 30E

PLUGGING DETAILS

6 bbl cmt plug from 0 - 250

42 bbl cmt plug from 300 - 813



Total Depth (ft): 3370

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 560
Amount Cement (sx): 450
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): -----
Bottom (ft): -----

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): -----
Casing Weight (ppf): -----
Setting Depth (ft): -----
Amount Cement (sx): -----
Top of Cement (ft): -----
TOC Method: -----

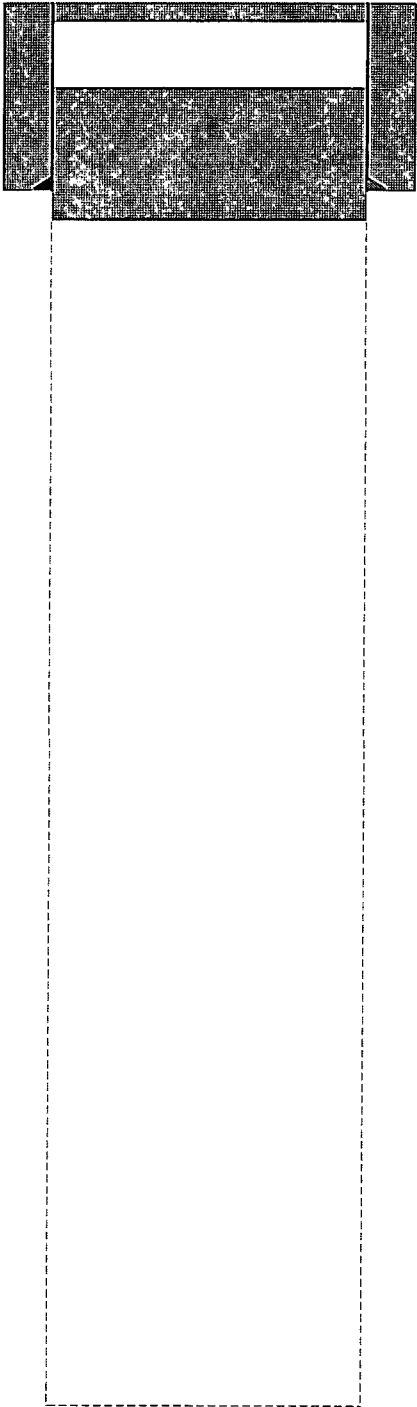
WELLBORE SCHEMATIC

Operator: Cano Petro of New Mexico, Inc.
Well Name: CSAU #572
Well Location: 1360' FNL, 1340' FWL
Calls Unit F
Section 14
Township 8S
Range 30E

PLUGGING DETAILS

30 sx cmt plug surface - 60

150 sx cmt plug @ 498



Total Depth (ft): 1454

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 12 1/4
Casing Size (in): 8 5/8
Casing Weight (ppf): 24
Setting Depth (ft): 560
Amount Cement (sx): 450
Top of Cement (ft): Surface
TOC Method: Circulated

Perforations

Top (ft): -----
Bottom (ft): -----

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): -----
Casing Weight (ppf): -----
Setting Depth (ft): -----
Amount Cement (sx): -----
Top of Cement (ft): -----
TOC Method: -----

WELLBORE SCHEMATIC

Operator: H.L. Brown, Jr.
Well Name: Federal 13 # 1
Well Location:
Calls 1980' FSL, 330' FWL
Unit L
Section 13
Township 8S
Range 30E

PLUGGING DETAILS

10 sx cmt plug @ surface

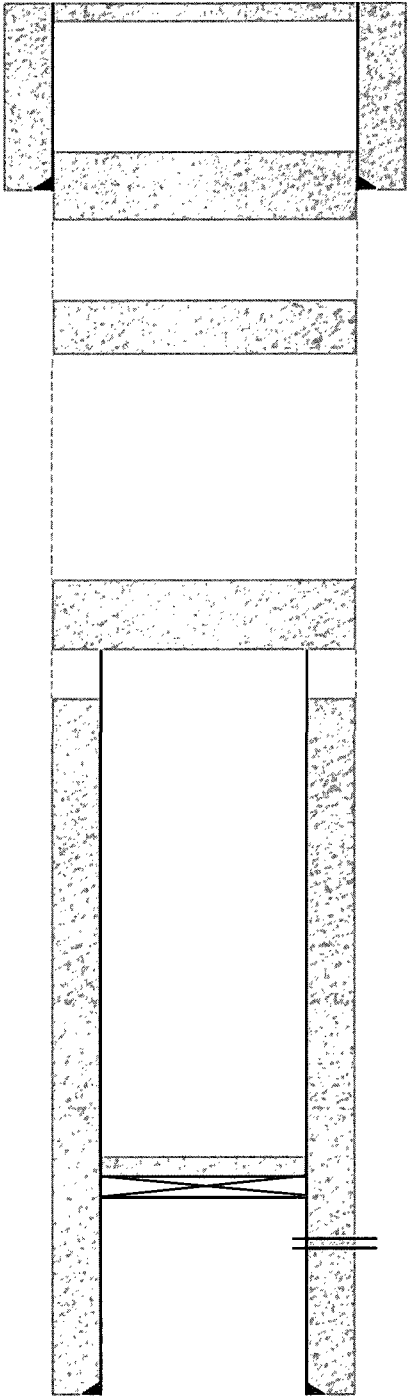
70 sx cmt plug 145 - 255

70 sx cmt plug 910 - 1020

70 sx cmt plug 2180 - 2290

cut & pulled 4 1/2 casing @ 2292

CIBP @ 3500
capped w/ 3 sx cmt



Total Depth (ft): 3608

ORIGINAL WELL CONSTRUCTION

Surface Casing

Hole Size (in): 11
Casing Size (in): 8 5/8
Casing Weight (ppf): 20
Setting Depth (ft): 212
Amount Cement (sx): 175
Top of Cement (ft): Surface
TOC Method: Calculated

Perforations

Top (ft): 3555
Bottom (ft): 3564

Production Casing

Hole Size (in): 7 7/8
Casing Size (in): 4 1/2
Casing Weight (ppf): 9.5
Setting Depth (ft): 3606
Amount Cement (sx): 300
Top of Cement (ft): 2363
TOC Method: Calculated

ATTACHMENT TO FORM C-108
Cano Petro of New Mexico, Inc.
Cato San Andres Unit

Item VI - Tabulation of Well Data

API Suffix	Section	Unit	Location	Original Operator	Well Name	Surface Casing				Production Casing				Internal Liner				Perforations Abandoned Prior to Plugging				Status																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
						Hole Size (in)	Casing Size (in)	Casing Weight (ppf)	Depth (ft)	Amount Cement (cu)	0.20 TOC	Method	Hole Size (in)	Casing Size (in)	Casing Weight (ppf)	Depth (ft)	Setting Depth (ft)	Amount Cement (cu)	0.00 TOC	Method	Original Completion Date		Conversion Date	Completion Date	Re-Completion Date	Current Top	Current Bottom	Depth (ft)	Amount Cement (cu)	Plugging Date	Depth (ft)	Total Depth (ft)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
10585	21	M	660 FSL	Pan American Petroleum Corp.	ABQO "B" Federal # 1	12.250	8.625	24.0	457	300	0	7.875	4.500	9.5	3662	800	347	calc									Nov-66	3586	3614	CIB	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	3468	3551	3532	

ATTACHMENT TO FORM C-108
Cano Petro of New Mexico, Inc.
Cato San Andres Unit

Item VI - Tabulation of Well Data

API Suffix	Section	Unit	Location	Original Well Name	Current Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well Name	Original Well 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ATTACHMENT TO FORM C-108

Cano Petro of New Mexico, Inc.

Cato San Andres Unit

Item VII – data on the proposed operation

1. The proposed average daily rate of injection is 500 STBD per well. The proposed maximum daily rate of injection is 2,000 STBD per well.
2. The system will be closed.
3. The depth to the shallowest anticipated perforation in a well that will be utilized for injection is 3,250'. The proposed average injection pressure is 650 psi. Consistent with pending applications for increased injection pressure (IPI) filed on November 30, 2009 and January 5, 2010, the proposed maximum injection pressure on a well by well basis, is 0.400 psi/ft to the top perforation, less 50 psi, rounded down to the nearest 5 psi. The table below lists the top anticipated perforation and proposed maximum injection pressure for each of the proposed injection wells.

<u>Well</u>	<u>Depth to Top Perforation (ft)</u>	<u>Proposed Maximum Injection Pressure (psi)</u>
CSAU # 8	3320	1275
CSAU # 9	3298	1265
CSAU # 17	3263	1255
CSAU # 30	3414	1315
CSAU # 31	3280	1260
CSAU # 32	3261	1250
CSAU # 47	3336	1280
CSAU # 60	3303	1270
CSAU # 74	3343	1285
CSAU # 75	3370	1295
CSAU # 76	3442	1325
CSAU # 89	3392	1305
CSAU # 91	3360	1290
CSAU # 106	3386	1300
CSAU # 108	3418	1315
CSAU # 120	3439	1325
CSAU # 400	3250	1250
CSAU # 521	3250	1250
CSAU # 537	3250	1250
CSAU # 590	3250	1250
CSAU # 818	3250	1250
CSAU # 825	3250	1250
CSAU # 829	3250	1250
CSAU # 845	3250	1250
CSAU # 846	3250	1250
CSAU # 852	3250	1250
CSAU # 853	3250	1250
CSAU # 855	3250	1250

ATTACHMENT TO FORM C-108, continued

Cano Petro of New Mexico, Inc.

Cato San Andres Unit

Item VII – data on the proposed operation, continued

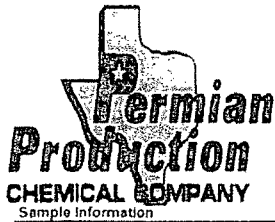
CSAU # 858	3250	1250
CSAU # 859	3250	1250
CSAU # 880	3250	1250
CSAU # 881	3250	1250
CSAU # 882	3250	1250
CSAU # 883	3250	1250
CSAU # 890	3250	1250
CSAU # 907	3250	1250
CSAU # 910	3250	1250
CSAU # 912	3250	1250
CSAU # 913	3250	1250
CSAU # 914	3250	1250
CSAU # 916	3250	1250
CSAU # 917	3250	1250
CSAU# 919	3250	1250

4. Currently, all injected water is produced water from the Cato San Andres Unit. Efforts are underway to facilitate use of produced water from San Andres wells on outside leases as make-up water. The Glorietta formation has been identified as a possible additional source of additional make-up water. Compositional analyses of a produced San Andres water sample and a Glorietta water sample obtained from a Cato San Andres Unit well, as well as results of compatibility testing are attached. Regardless of relative volumes, combined samples exhibit lower tendencies to form CaCO_3 and CaSO_4 scale than produced San Andres water.
5. Not Applicable.

ATTACHMENT TO FORM C-108
Cano Petro of New Mexico, Inc.
Cato San Andres Unit

Item VII

INJECTANT ANALYSIS AND COMPATIBILITY TEST RESULTS



P.O. Box 287
Snyder, Texas 79550-0287

WATER ANALYSIS REPORT

Office: 325-573-8055
Fax: 325-574-1044

Company	Cano Petroleum
Lease	Cato Unit
Well	Fresh Water Well
Sample Location	well head
Sample Date	8/12/09

City/ State	Roswell, NM
County	Chaves
Formation	Glorietta
Salesman:	Mike Smith
Analysis Date:	8/13/09

Dissolved Gases	PPM
Hydrogen Sulfide	0
Carbon Dioxide	16
Dissolved Oxygen	NA

System Conditions	
Fluid Temp.	0 °F
Conductivity	0 microohms/cm
pH	5.60
SpGr.	1.165

Cations	mg/L	meq/L
Sodium	116,181	5,051.4
Calcium	2,526	126.3
Magnesium	705	57.8
Barium	0	0.00
Iron	0	0.0

Anions	mg/L	meq/L
Bicarbonate	49	0.8
Chloride	184,202	5,188.8
Sulfate	2,200	45.83

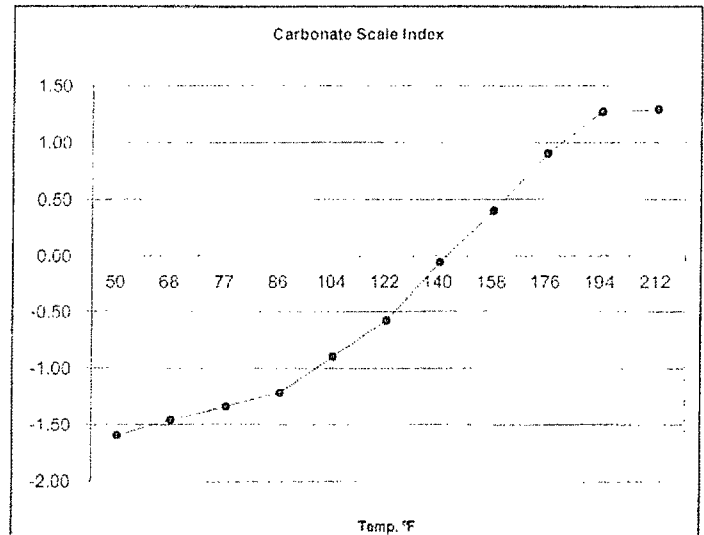
Total Dissolved Solids	305,863
Total Ionic Strength	5.37
Total Hardness as CaCO3	9,206

Calcium Carbonate Scaling Tendency

Stability Index:

°F	
50	-1.60
68	-1.46
77	-1.34
86	-1.22
104	-0.90
122	-0.58
140	-0.06
158	0.40
176	0.90
194	1.27
212	1.29

Calcium Carbonate Index Legend
SI of less than 0 = No Potential
SI of 0 to 0.5 = Marginal Potential
SI of 0.5 to 1.0 = Moderate Potential
SI of above 1.0 = Severe Potential



WATER ANALYSIS REPORT

Page 2

Sample Information

Company	Cano Petroleum
Lease	Cato Unit
Well Number	Fresh Water Well
Sample Location	well head
Sample Date	8/12/09

City/ State	Roswell, NM
County	Chaves
Formation	Glorietta
PPCC Sales Rep:	Mike Smith
Analysis Date:	8/13/09

Calcium Sulfate Scaling Tendency

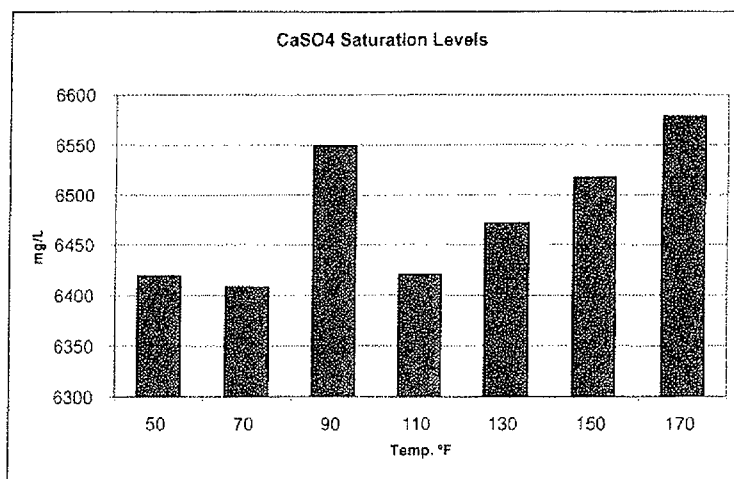
Maximum Amount of CaSO₄ which can be held in solution at these temperatures.

°F	mg/L
50	6419.65
70	6409.15
90	6549.30
110	6421.15
130	6472.01
150	6518.16
170	6578.87

Actual CaSO₄ Conc. =

3946.25

If the actual value exceeds any of the mg/L values above, Calcium sulfate scale is likely



Barium Sulfate Scaling Tendency

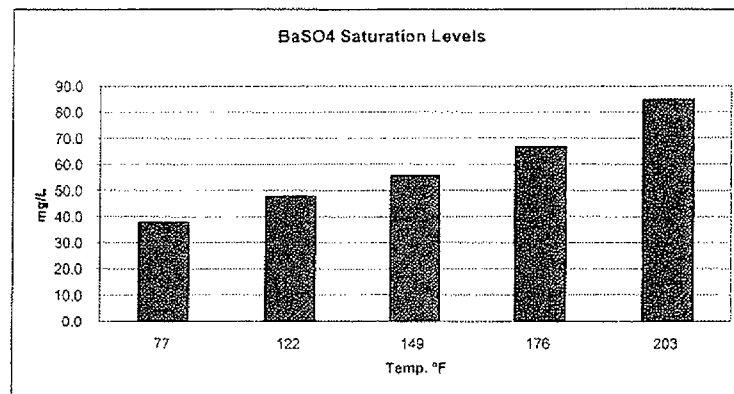
Maximum Amount of BaSO₄ which can be held in solution at these temperatures.

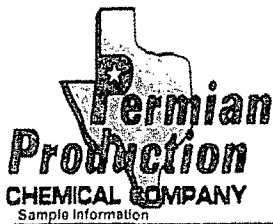
°F	mg/L
77	38.0
122	48.0
149	56.0
176	67.0
203	85.0

Actual BaSO₄ Conc. =

0.00

If the actual value exceeds any of the mg/L values above, barium sulfate scale is likely





P.O. Box 287
Snyder, Texas 79550-0287

WATER ANALYSIS REPORT

Office: 325-573-8055
Fax: 325-574-1044

Company	Cano Petroleum
Lease	Cato Unit
Well	Battery 6 Produced Well
Sample Location	IPD
Sample Date	8/12/09

City/ State	Roswell, NM
County	Chaves
Formation	San Andres
Salesman:	Mike Smith
Analysis Date:	8/13/09

Dissolved Gases	PPM
Hydrogen Sulfide	90
Carbon Dioxide	277
Dissolved Oxygen	NA

System Conditions	
Fluid Temp.	0 °F
Conductivity	0 microohms/cm
pH	5.50
SpGr.	1.122

Cations	mg/L	meq/L
Sodium	65,111	2,830.9
Calcium	3,048	152.4
Magnesium	9,185	752.9
Barium	0	0.00
Iron	0	0.0

Anions	mg/L	meq/L
Bicarbonate	342	5.6
Chloride	130,143	3,666.0
Sulfate	3,100	64.58

Total Dissolved Solids	210,928
Total Ionic Strength	4.23
Total Hardness as CaCO ₃	45,427

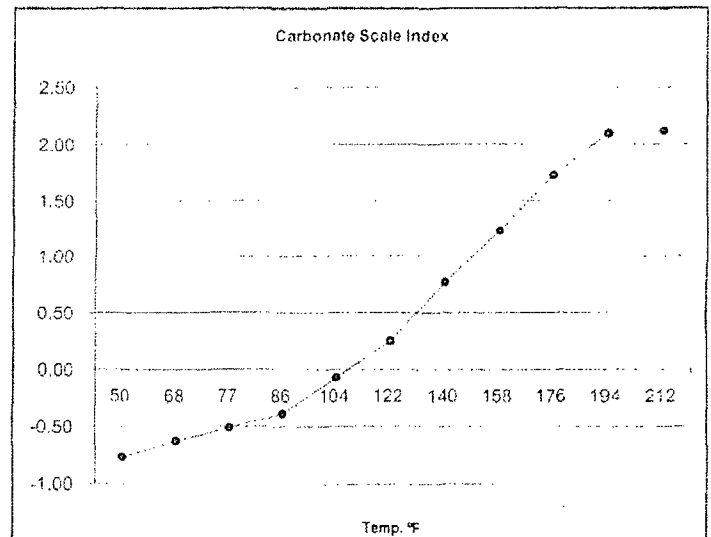
Calcium Carbonate Scaling Tendency

Stability Index:

°F	
50	-0.77
68	-0.63
77	-0.51
86	-0.39
104	-0.07
122	0.25
140	0.77
158	1.23
176	1.73
194	2.10
212	2.12

Calcium Carbonate Index Legend

SI of less than 0 = No Potential
SI of 0 to 0.5 = Marginal Potential
SI of 0.5 to 1.0 = Moderate Potential
SI of above 1.0 = Severe Potential



WATER ANALYSIS REPORT Page 2

Sample Information

Company	Cano Petroleum
Lease	Cato Unit
Well Number	Battery 6 Produced Well
Sample Location	IPD
Sample Date	8/12/09

City/ State	Roswell, NM
County	Chaves
Formation	San Andres
PPCC Sales Rep:	Mike Smith
Analysis Date:	8/13/09

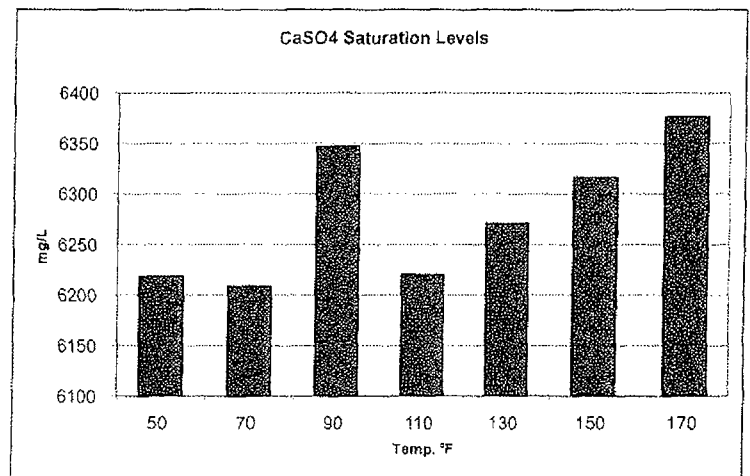
Calcium Sulfate Scaling Tendency

Maximum Amount of CaSO₄ which can be held in solution at these temperatures.

°F	mg/L
50	6219.48
70	6209.09
90	6347.65
110	6220.96
130	6271.24
150	6316.86
170	6376.89

Actual CaSO₄ Conc. = 5560.63

If the actual value exceeds any of the mg/L values above, Calcium sulfate scale is likely



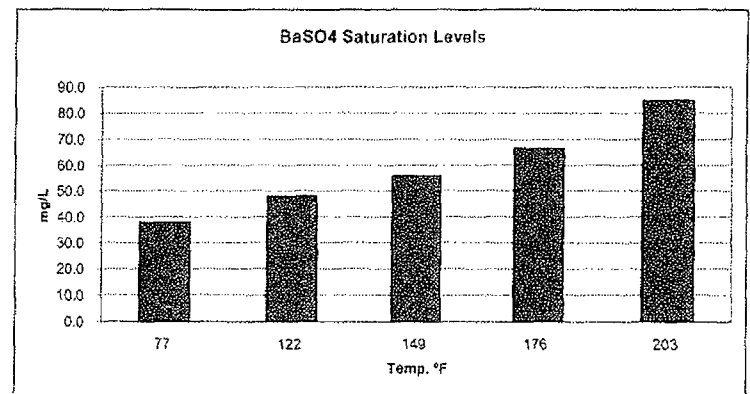
Barium Sulfate Scaling Tendency

Maximum Amount of BaSO₄ which can be held in solution at these temperatures.

°F	mg/L
77	38.0
122	48.0
149	56.0
176	67.0
203	85.0

Actual BaSO₄ Conc. = 0.00

If the actual value exceeds any of the mg/L values above, barium sulfate scale is likely



Oil Company
Lease
Well

Cano Petroluem
Cato Unit
Fresh Water

Cano Petroluem
Cato Unit
Batt 6 Prod. H2O

	#1 mg/L		#2 mg/L
pH	5.6		5.5
SpGr.	1.165		1.122
H2S	0		90
CO2	16		277
Calcium	2526		3048
Magnesium	705		9185
Sodium	116181		65111
Total Hardness	9206		45427
Barium	0		0
Iron	0		0
Bicarbonate	49		342
Sulfate	2200		3100
Chloride	184202		130143
Dissolved Solids	305863		210928
Conductivity	0		0

% #1	% #2	pH	SpGr.	H2S	CO2	Calcium	Calcium	Magnesium	Sodium	Total Hardness	Barium	Iron	Bicarbonate	Sulfate	Sulfate	Chloride	Dissolved Solids	Conductivity	Ionic Strength
Cato Unit Battery 6 Produced Water																			
0	100	5.50	1.122	90	277	3048	152	9185	65111	45427	0	0	342	3100	65	130143	210928	0	4.23
5	95	5.51	1.124	86	264	3022	151	8761	67665	43616	0	0	327	3055	64	132846	215675	0	4.28
10	90	5.51	1.126	81	251	2996	149	8337	70218	41805	0	0	313	3010	63	135549	220422	0	4.34
15	85	5.52	1.128	77	238	2970	148	7913	72772	39994	0	0	298	2965	62	138252	225168	0	4.40
20	80	5.52	1.131	72	225	2944	147	7489	75325	38183	0	0	283	2920	61	140955	229915	0	4.46
25	75	5.53	1.133	68	212	2918	146	7065	77879	36372	0	0	269	2875	60	143658	234862	0	4.51
30	70	5.53	1.135	63	199	2891	144	6641	80432	34561	0	0	254	2830	59	146361	239409	0	4.57
35	65	5.54	1.137	59	186	2865	143	6217	82986	32750	0	0	239	2785	58	149064	244155	0	4.63
40	60	5.54	1.139	54	173	2839	142	5793	85539	30939	0	0	225	2740	57	151767	248902	0	4.68
45	55	5.55	1.141	50	160	2813	140	5369	88093	29128	0	0	210	2695	56	154470	253649	0	4.74
50	50	5.55	1.144	45	147	2787	139	4945	90646	27317	0	0	196	2650	55	157173	258396	0	4.80
55	45	5.56	1.146	41	133	2761	138	4521	93200	25505	0	0	181	2605	54	159875	263142	0	4.85
60	40	5.56	1.148	36	120	2735	136	4097	95753	23694	0	0	166	2560	53	162578	267889	0	4.91
65	35	5.57	1.150	32	107	2709	135	3673	98307	21883	0	0	152	2515	52	165281	272636	0	4.97
70	30	5.57	1.152	27	94	2683	134	3249	100860	20072	0	0	137	2470	51	167984	277383	0	5.02
75	25	5.58	1.154	23	81	2657	133	2825	103414	18261	0	0	122	2425	51	170687	282129	0	5.08
80	20	5.58	1.156	18	68	2630	131	2401	105967	16450	0	0	108	2380	50	173390	286876	0	5.14
85	15	5.59	1.159	14	55	2604	130	1977	108621	14639	0	0	93	2335	49	176093	291623	0	5.19
90	10	5.59	1.161	9	42	2578	129	1553	111074	12828	0	0	78	2290	48	178796	296370	0	5.25
95	5	5.60	1.163	5	29	2552	127	1129	113628	11017	0	0	64	2245	47	181499	301116	0	5.31
100	0	5.60	1.165	0	16	2526	126	705	116181	9206	0	0	49	2200	46	184202	305863	0	5.37

Permian Production Chemical Company
3611 Lamesa Hwy Snyder, TX 79549
325-573-8055

Sample #1
Cano Petroluem
Cato Unit
Fresh Water

Sample #2
Cano Petroluem
Cato Unit
Batt 6 Prod. H2O

% #1	% #2	CaCO3 @ 86F	CaCO3 @140F	CaSO4 @90 Solubility mg/l	Calculated CaSO4
0	100	-0.39	0.77	6354.97	5559.47
5	95	-0.41	0.75	6364.84	5478.76
10	90	-0.43	0.73	6374.74	5398.06
15	85	-0.45	0.71	6384.66	5317.36
20	80	-0.47	0.69	6394.60	5236.66
25	75	-0.49	0.67	6404.56	5155.96
30	70	-0.51	0.65	6414.55	5075.26
35	65	-0.54	0.62	6424.55	4994.55
40	60	-0.56	0.60	6434.58	4913.85
45	55	-0.59	0.57	6444.62	4833.15
50	50	-0.62	0.54	6454.69	4752.45
55	45	-0.65	0.51	6464.78	4671.75
60	40	-0.69	0.47	6474.89	4591.04
65	35	-0.73	0.43	6485.02	4510.34
70	30	-0.77	0.39	6495.18	4429.64
75	25	-0.82	0.34	6505.35	4348.94
80	20	-0.88	0.28	6515.55	4268.24
85	15	-0.94	0.22	6525.77	4187.53
90	10	-1.01	0.15	6536.01	4106.83
95	5	-1.10	0.06	6546.27	4026.13
100	0	-1.22	-0.06	6556.56	3945.43

ATTACHMENT TO FORM C-108

Cano Petro of New Mexico, Inc.
Cato San Andres Unit

Item IX – proposed stimulation program

Injection wells will be acidized, and producers will be acidized and/or fracture stimulated.