STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Oil Conservation Div.
2040 Pacheco St.
Santa Fe, NM 87505

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: X Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? X Yes ___ No

II. OPERATOR: Hanagan Petroleum Corporation

ADDRESS: P.O. Box 1737 - Roswell, New Mexico 88202-1737

CONTACT PARTY: Mike Hanagan PHONE: 623-5053

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project: X Yes ___ No
If yes, give the Division order number authorizing the project R-8611

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.

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.

VII. Attach data on the proposed operation, including:

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 geological data on the injection zone including appropriate lithologic detail, geological 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.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well [illegible] resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more of any injection or disposal well showing location of wells a

XII. Applicants for disposal wells must make an affirmative statem data and find no evidence of open faults or any other hydrolo source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on t

XIV. Certification: I hereby certify that the information submitte knowledge and belief.

BEFORE THE
OIL CONSERVATION DIVISION
Santa Fe, New Mexico

Case No. 12023 Exhibit No. 7

Submitted by: Hanagan Petroleum Corporation

Hearing Date: August 6, 1998

NAME: Michael G. Hanagan TITLE: President

SIGNATURE: [signature] DATE: 7/14/98

* 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 circumstance of the earlier submittal. _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Wells:
#3, #5, #10, #12, #14, #18, #20, #22, #26, #29, #36, #39, #41, #42, #45, #47, #49, #51, #58, #60, #69, #72, #77, #79, #87, #89, #94, #102, #106, #110, #112, #117, #120 and #123 (34 wells)

I. **PURPOSE:** Secondary Recovery
Application does qualify for administrative approval.

II. **OPERATOR:** Hanagan Petroleum Corporation
Post Office Box 1737
Roswell, New Mexico 88202-1737
Contact Party: Mike Hanagan
Phone: (505) 623-5053

III. **WELL DATA:** See attached data sheets and schematics for each well.

IV. This is an expansion of an existing project as authorized by Division order number R-8611 and order number WFX-582.

V. **AREA OF REVIEW MAP:** See attached Map C-108 Item V.

VI. **AREA OF REVIEW WELL DATA:** With the exception of the wells listed below, which have been drilled, plugged or in which borehole conditions have changed subsequent to September 9, 1987; All required data on wells within the area of review was previously submitted and accepted on September 9, 1987 at the NMOCD hearing on Pelto Oil Company's application for waterflood project (OCD order # R-8611) and remains current.

A tabulation and schematic for the following wells which were drilled, plugged or in which borehole conditions have changed is attached hereto:
TLSAU #31 2310' FNL & 1650' FWL Section 31-T8S-R29E
TLSAU #33 2310' FNL & 990' FEL Section 31-T8S-R29E
TLSAU #62 330' FNL & 330' FWL Section 5-T9S-R29E
TLSAU #121 1500' FNL & 1405' FWL Section 5-T9S-R29E
TLSAU #122 1400' FNL & 250' FEL Section 36-T8S-R28E
TLSAU #200 2310' FSL & 990' FEL Section 12-T9S-R28E
TLSAU #201 330' FSL & 1650' FWL Section 1-T9S-R28E

TLSAU #202 1300' FSL & 1300' FWL Section 36-T8S-R29E
TLSAU #203 1650' FSL & 2310' FWL Section 6-T9S-R29E

In addition to those wells shown above, there are two wells within the area of review that ,by letters dated 11/18/97, the NMOCD has requested the operator to show cause as to why the wells should not be plugged and abandoned. The certified letters sent by NMOCD to the operator were returned to NMOCD as undeliverable. There is no other indication of subsequent activity in the NMOCD files so it is our assumption that these wells remain in the conditions existing on September 9, 1987 and therefore have been previously submitted and accepted on September 9, 1987 at the NMOCD hearing on Pelto Oil Company's application for waterflood project (NMOCD order # R-8611). An inspection of the 2 wells on July 14, 1998 confirms that production equipment (i.e., tank battery and pumpjacks) are still in place and apparently operational. The 2 subject wells are:

Sandco Oil and Gas, Inc. #2 Sandco
2310' FNL & 1650' FEL
Section 25 - T8S - R28E

Sandco Oil & Gas, Inc. #3 Sandco
990' FNL & 330' FEL
Section 25 - T8S - R28E

VII. PROPOSED OPERATION:

1. Average injection rate of 300-500 barrels per day with maximum injection of 750 barrels per day.
2. The system is a closed injection system.
3. Maximum injection pressure will be limited to 0.2 psi/ft. Average injection pressure will not be known until commencement of injection.
4. The source water will be a mixture of Ogalla and produced water. Analysis and compatibility of injection water has been previously submitted.
5. Not applicable

VIII. GEOLOGIC DATA: All required geologic data on wells within the area of review was previously submitted and accepted on September 9, 1987 at the NMOCD hearing on Pelto Oil Company's application for waterflood project (OCD order # R-8611) and remains current.

IX. STIMULATION PROGRAM: No initial stimulations are planned on these wells; however, should injection rate be insufficient the wells will be acidized with 5,000 gallons to 10,000 gallons of 20% hydrochloric acid.

X. WELL LOGS: All well logs and test data have been filed with the Division.

XI. **WATER WELL ANALYSIS:** Analysis on any water wells within one mile of any well was previously submitted and accepted on September 9, 1987 at the NMOCD hearing on Pelto Oil Company's application for waterflood project (OCD order # R-8611) and remains current.
A search of State Engineer records in Roswell on July 2, 1998 revealed no new information on record.

XII. Not applicable.

XIII. **PROOF OF NOTICE:** The surface owner is David Kent Gabel whose address is Route 3, Hereford, Texas 79045. There are two leasehold operator within the area of review; (1) Willow Pipeline Company whose address is P.O. Box 131, Weatherford, Oklahoma 73096 and (2) Sandco Oil and Gas, Inc. whose last known address was P.O. Box 881, Mesilla Park, New Mexico 88047.
Each of these parties have been provided notice of this application (See attached certified mail receipt).

For Proof of Publication see attached copy of the legal advertisement which will be published in the Roswell Daily Record on July 17, 1998.

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

Michael G. Hanagan, President

DATE: 7/14/98

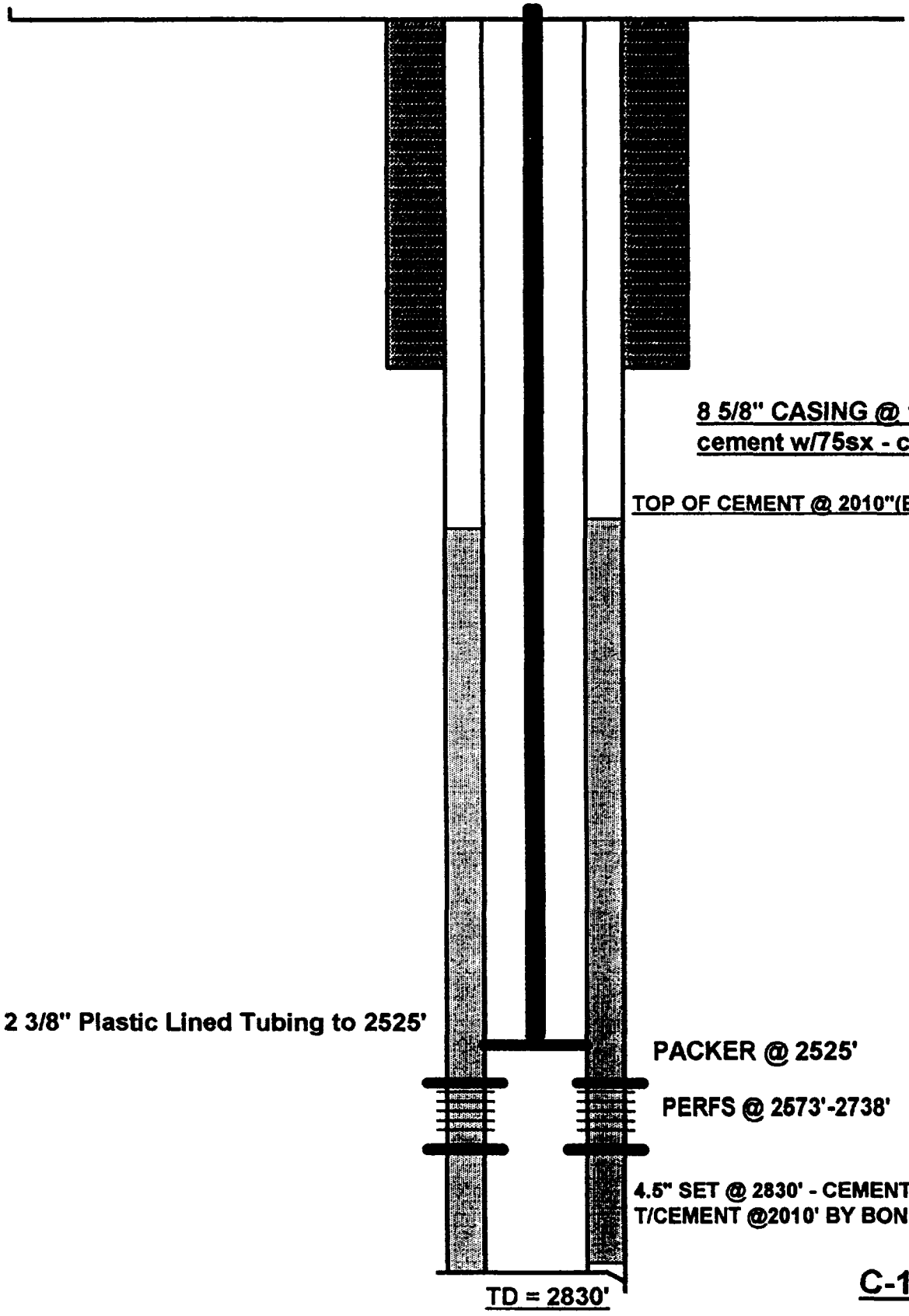
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 3	
A1	**FOOTAGE:**	1650 FSL & 1650 FEL	
A1	**SECTION:**	25-T8S-R28E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	11"	7.875
A2	**CASING SIZE:**	8.625"	5.5"
A2	**CASING WEIGHT:**	20 #	14 #
A2	**CASING DEPTH:**	121'	2830'
A2	**CEMENT:**	75sx	125sx
A2	**TOP OF CEMENT:**	surface	2010'
		circ. 10sx	bond log
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55, 4.7#/ft,8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2525' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2573'-2738'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	563'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #3
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

25-T8S-R28E, 1650 FSL & 1650 FEL

O'BRIEN 25 #4

TLSAU #3

30-005-60601

6.

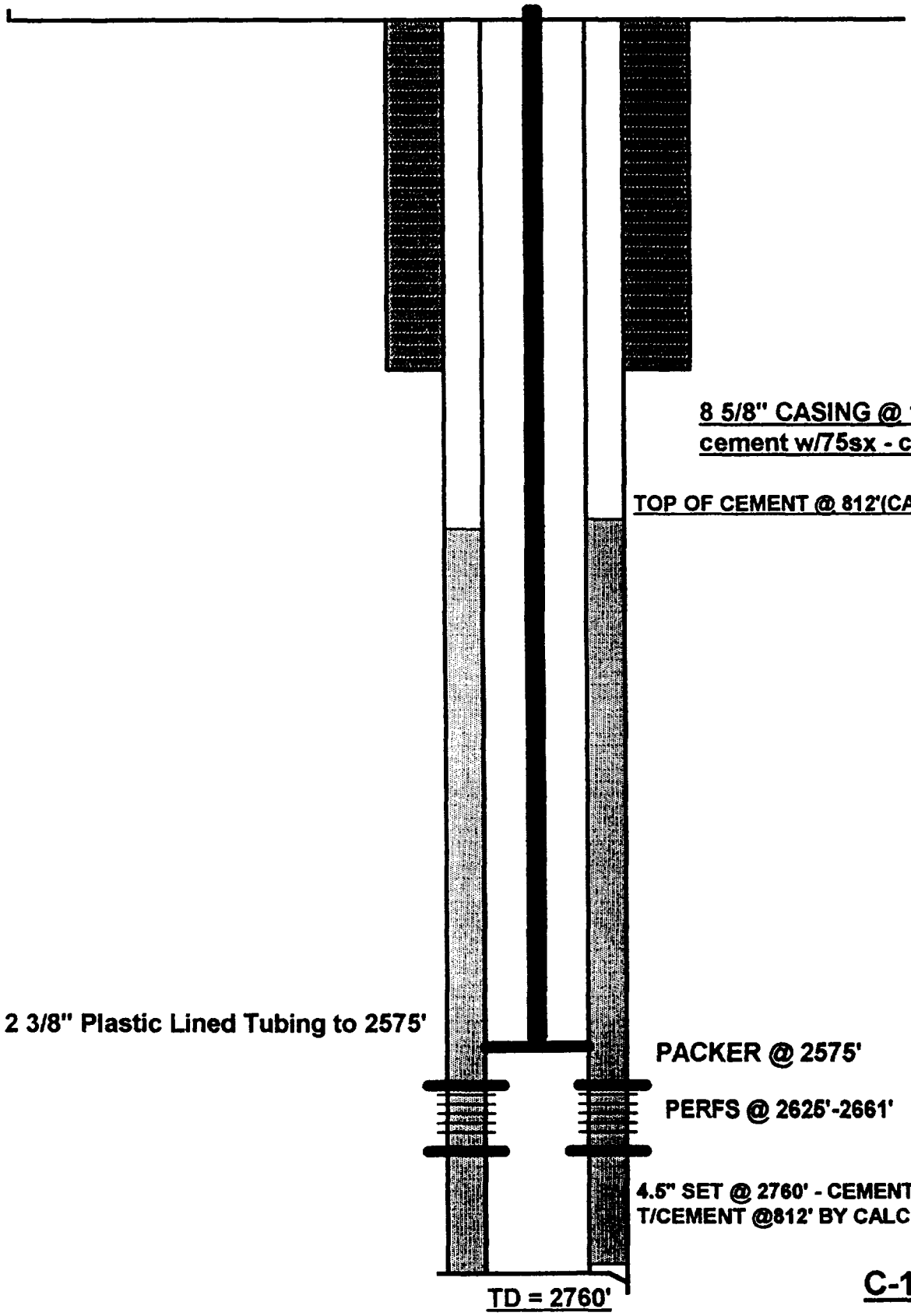
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 5	
A1	**FOOTAGE:**	1650 FSL & 330 FWL	
A1	**SECTION:**	30-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875"
A2	**CASING SIZE:**	8.625"	5.5"
A2	**CASING WEIGHT:**	28 #	14 #
A2	**CASING DEPTH:**	115'	2760'
A2	**CEMENT:**	75sx	225sx
A2	**TOP OF CEMENT:**	surface	812'
		circulated	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. intrmally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2575' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2625' - 2641'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1813'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #5
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

8.

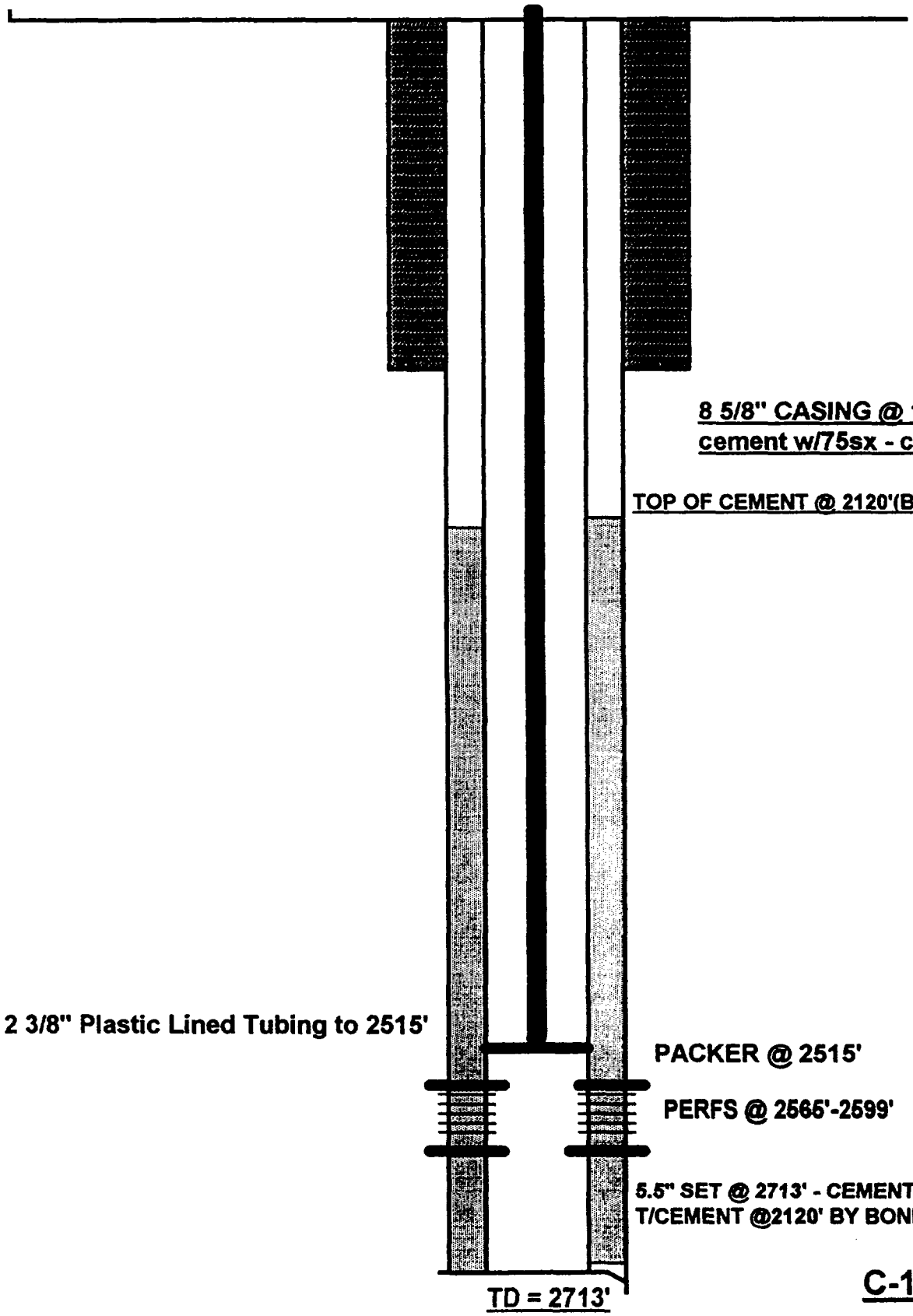
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 10	
A1	**FOOTAGE:**	330' FSL & 2310 FWL	
A1	**SECTION:**	25-T8S-R28E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875
A2	**CASING SIZE:**	8.625	5.5"
A2	**CASING WEIGHT:**	20#/ft	14#/ft
A2	**CASING DEPTH:**	120'	2713'
A2	**CEMENT:**	75sx	175sx
A2	**TOP OF CEMENT:**	surface	2120'
		circulated	bond log
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. intrrnally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2515' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2565'-2599'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	445'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #10
Well Schematic (Proposed)
C-108-III a & b



25-T8S-R28E, 330 FSL & 2310 FWL

N

OBRIEN F #2

TLSAU #10

30-005-60571

C-108 III a & b

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

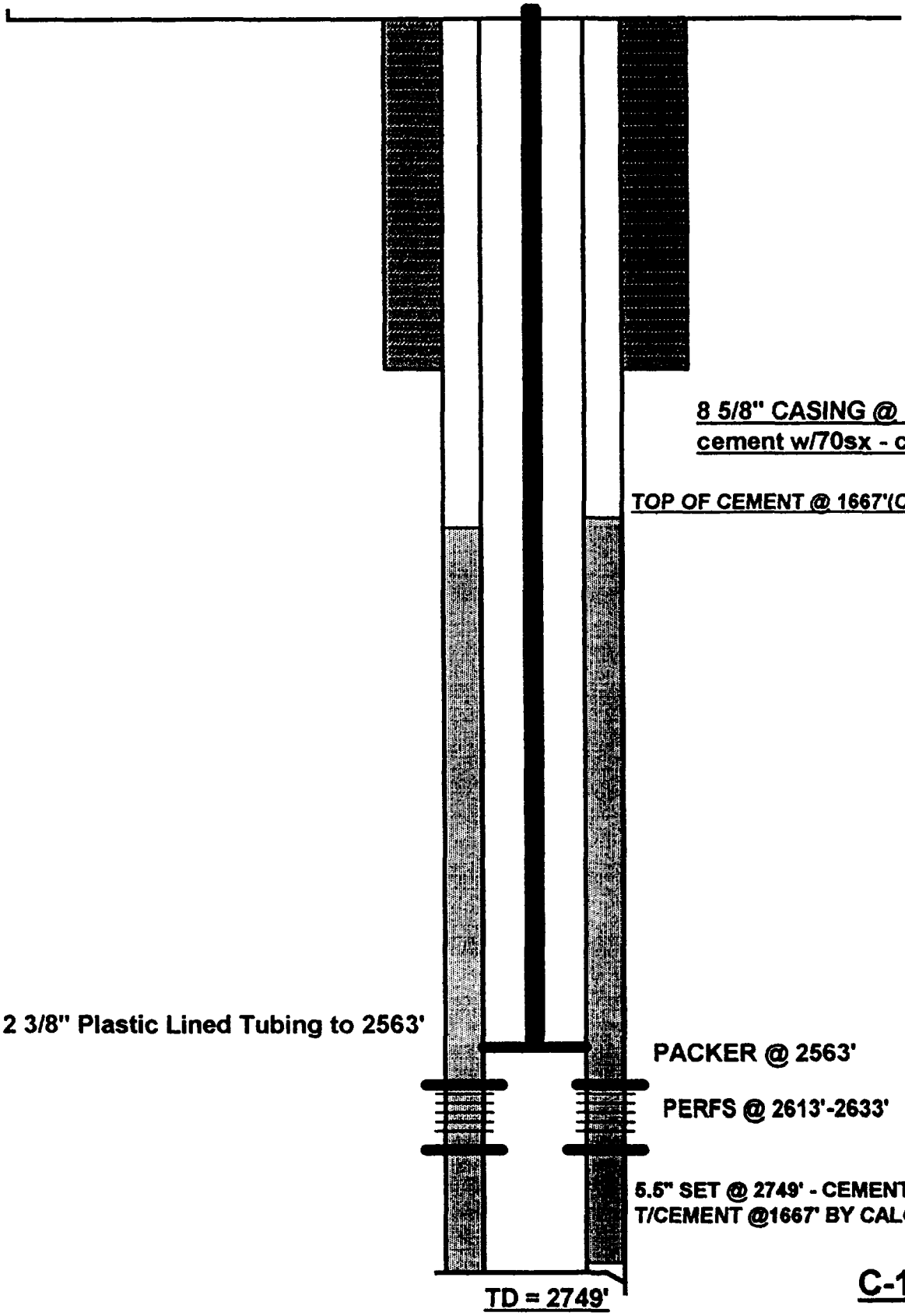
TABLE C-108 III-A & B

C-108-III

ITEM #				
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 12		
A1	**FOOTAGE:**	330 FSL & 330 FEL		
A1	**SECTION:**	25-T8S-R28E		
A1	**COUNTY:**	Chaves		
	EXISTING CASING PROGRAM			
A2	**HOLE SIZE:**	11"		7.875"
A2	**CASING SIZE:**		8.625	5.5"
A2	**CASING WEIGHT:**	20#/ft		15.5#
A2	**CASING DEPTH:**	127'		2749'
A2	**CEMENT:**	70sx		125sx
A2	**TOP OF CEMENT:**	surface		1667'
		circulated		calculated
	PROPOSED TUBULAR & PACKER INFORMATION			
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined		
A3	**PACKER DEPTH:**	2563' +/- 25'		
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer		

B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2613'-2633'
	EXISTING PERFORATIONS:	Same
	CEMENT ABOVE TOP PERFORATION:	946'
B3	**ORIGINAL WELL PURPOSE:**	Oil Well
B4	**OTHER PERFORATED INTERVALS:**	None
B5	**NEXT PAY ZONE - ABOVE:**	None
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #12
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

25-T8S-R28E, 330 FSL & 330 FEL

P

OBRIEN 25 #2

TLSAU #12

30-005-60578

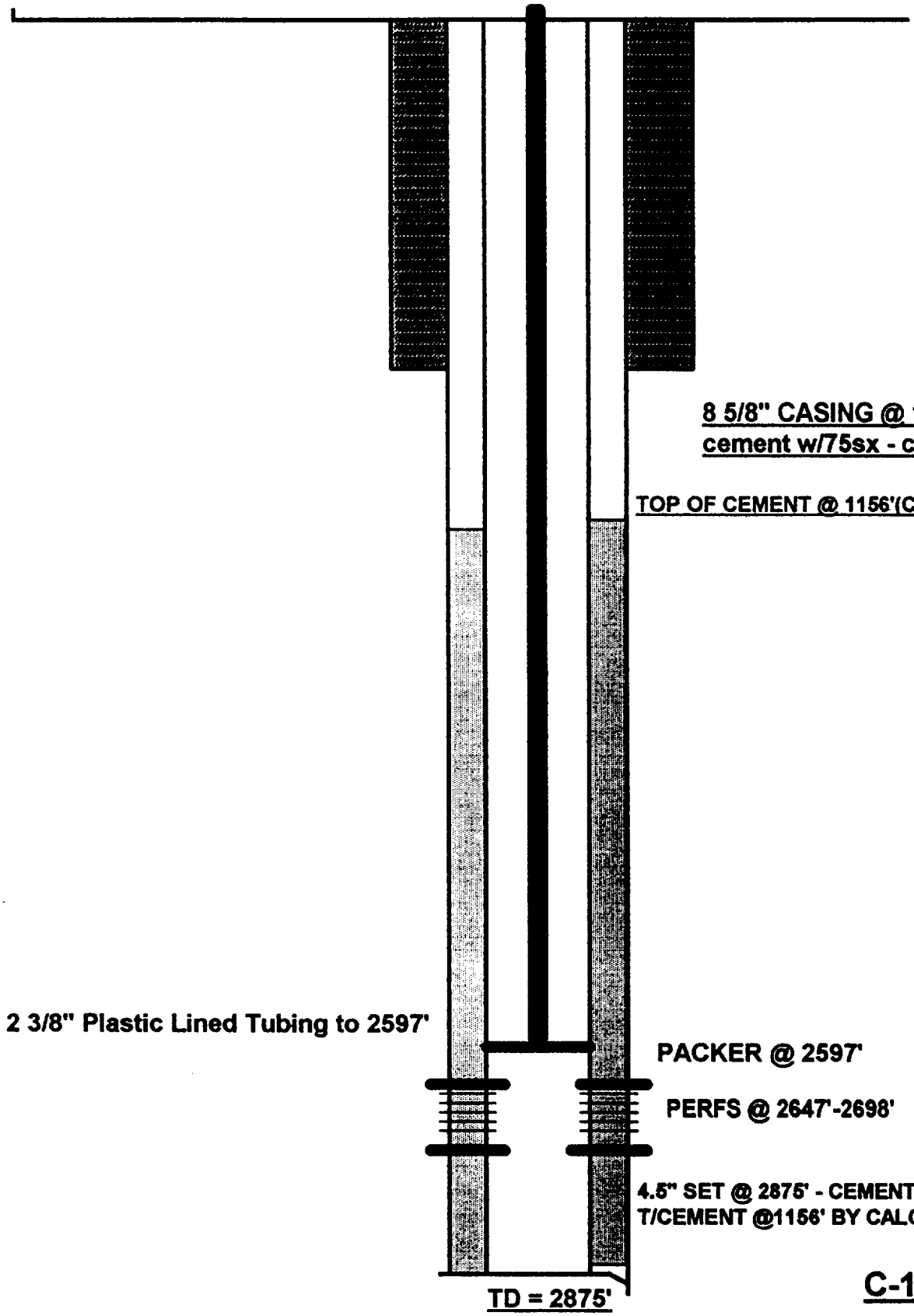
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 14	
A1	**FOOTAGE:**	330 FSL & 1650 FWL	
A1	**SECTION:**	30-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.5"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	120'	2875'
A2	**CEMENT:**	75sx	225sx
A2	**TOP OF CEMENT:**	surface	1156'
		circulated	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2597' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2647'-2698'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1491'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #14
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

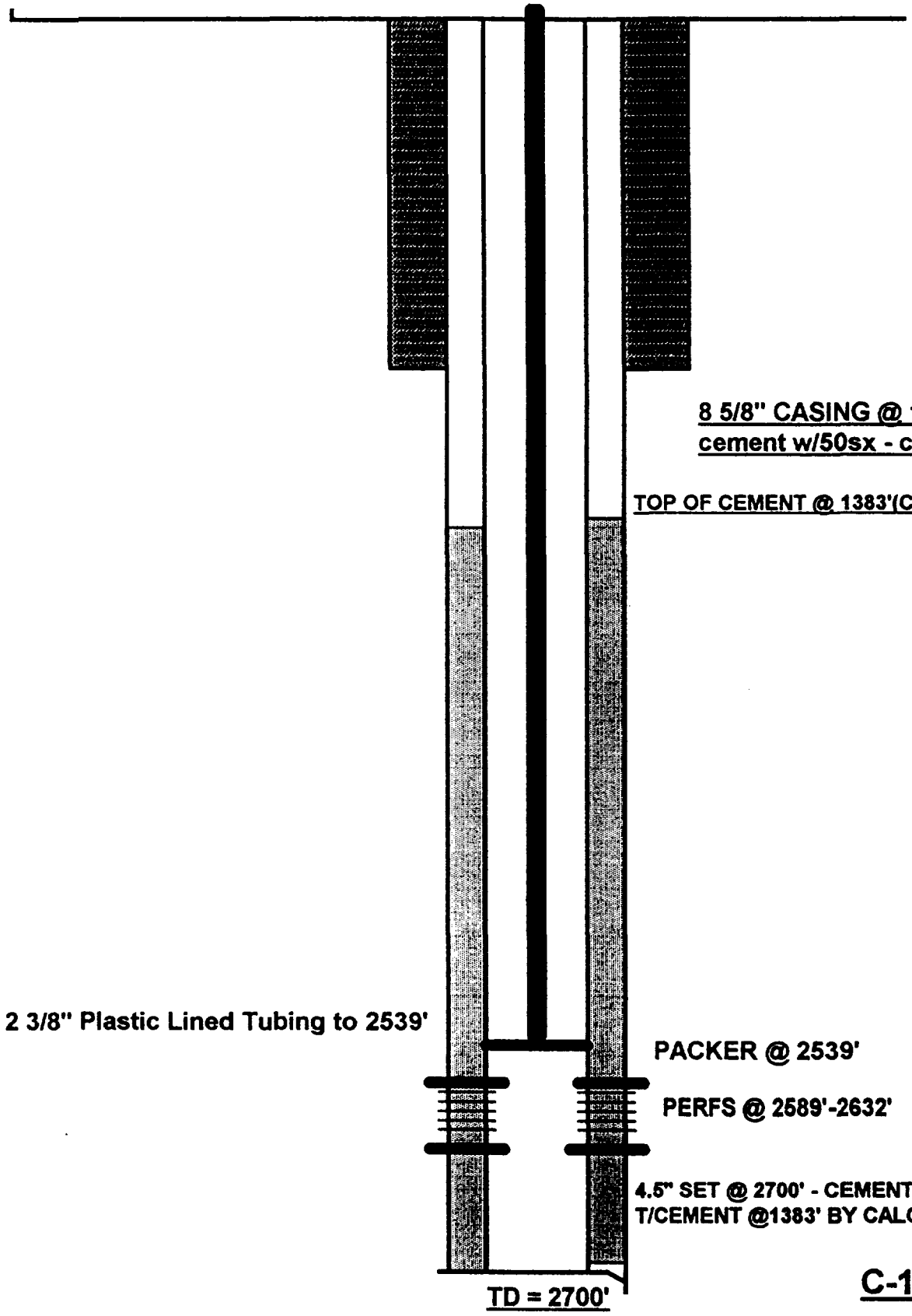
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 18	
A1	**FOOTAGE:**	990'FNL & 2310' FEL	
A1	**SECTION:**	36-T8S-R28E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875"
A2	**CASING SIZE:**	8.625	4.5"
A2	**CASING WEIGHT:**	28#/ft	9.5#/ft
A2	**CASING DEPTH:**	128'	2700'
A2	**CEMENT:**	50sx	200sx
A2	**TOP OF CEMENT:**	surface	1383'
		circulated	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2539' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2589'-2632'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1206'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #18
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

36-T8S-R28E. 990 FNL & 2310 FEL B
CITGO A #6
TLSAU #18
30-005-60536

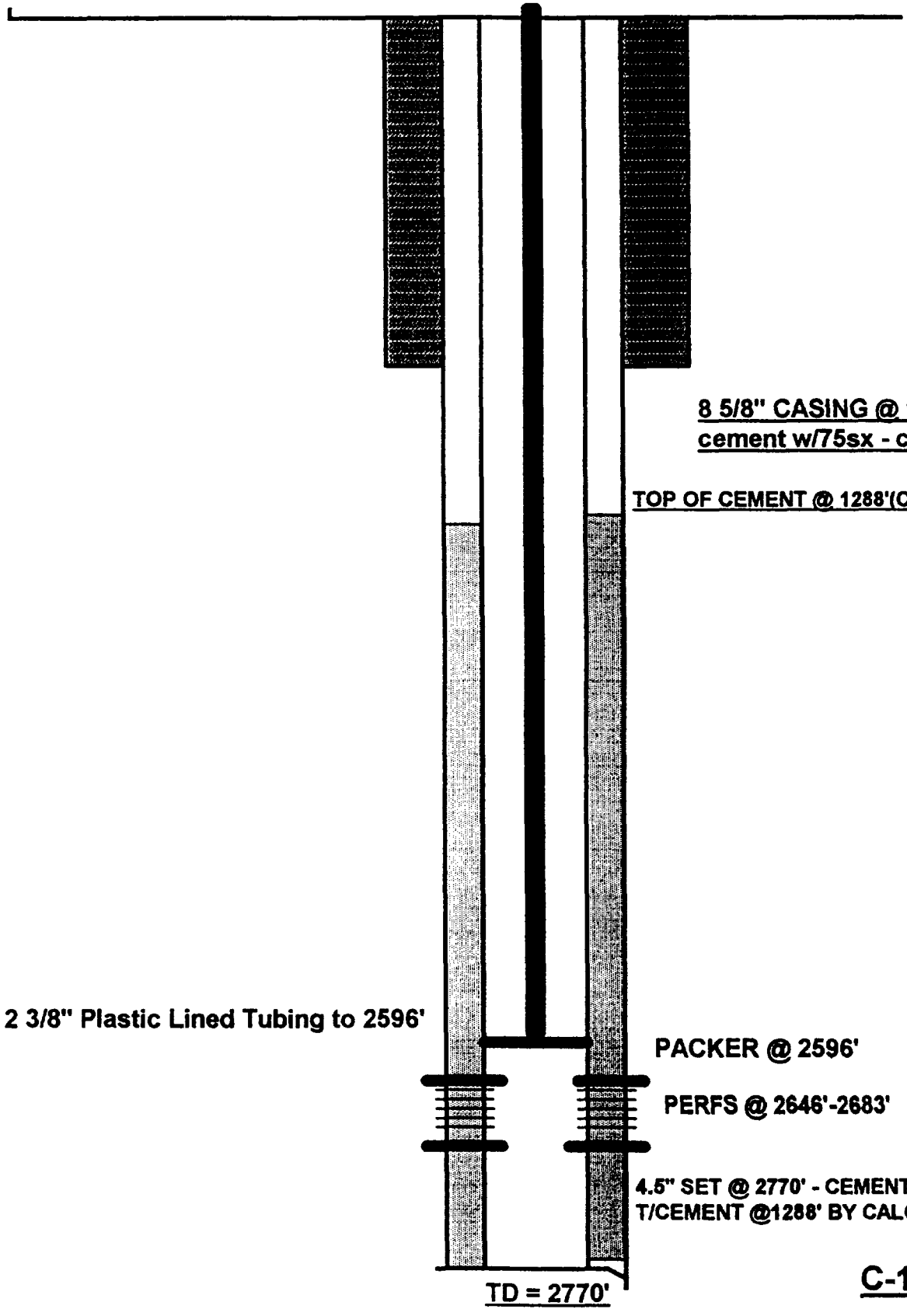
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 20	
A1	**FOOTAGE:**	990' FNL & 330' FWL	
A1	**SECTION:**	31- T8S-29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	28#/ft	9.5#/ft
A2	**CASING DEPTH:**	117'	2770"
A2	**CEMENT:**	75sx	225sx
A2	**TOP OF CEMENT:**	surface	1288'
		circulated	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2596' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2645.5-2683.5	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1358'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #20
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

31-18S-R29E, 990 FNL & 330 FWL

D

OBRIEN I #1

TLSAU #20

30-005-60570

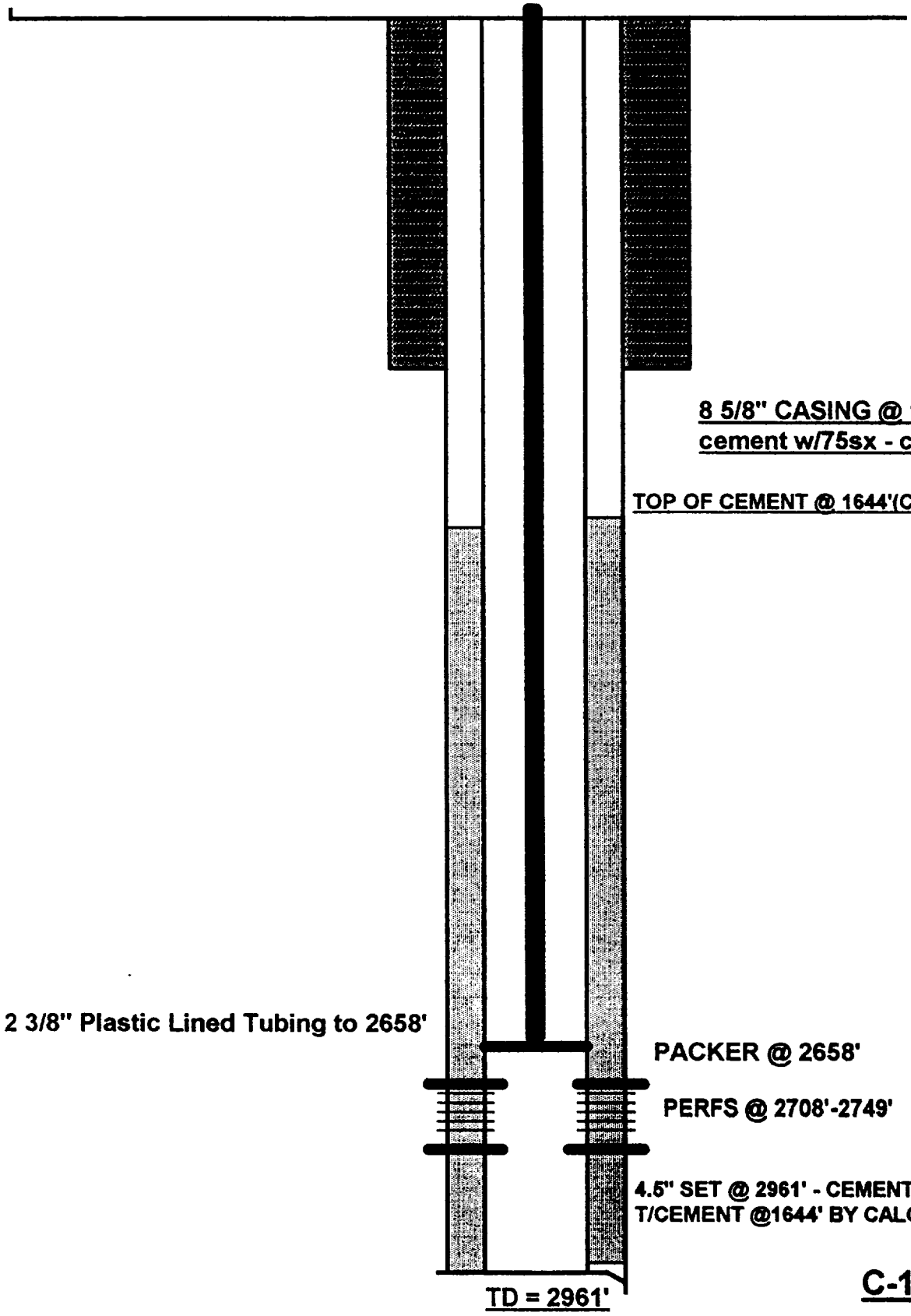
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 22	
A1	**FOOTAGE:**	990' FNL & 2310' FEL	
A1	**SECTION:**	31-T8S- 29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	120'	2961'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	surface	1644'
		circulated	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2658' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2708.5'-2749'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1391'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #22
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

31-T8S-R29E, 990 FNL & 2310 FEL B

OBRIEN J #8

TLSAU #22

30-005-60823

20.

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #		
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 26
A1	**FOOTAGE:**	1980' FNL & 1980' FWL
A1	**SECTION:**	36-8S-28E
A1	**COUNTY:**	Chaves

EXISTING CASING PROGRAM

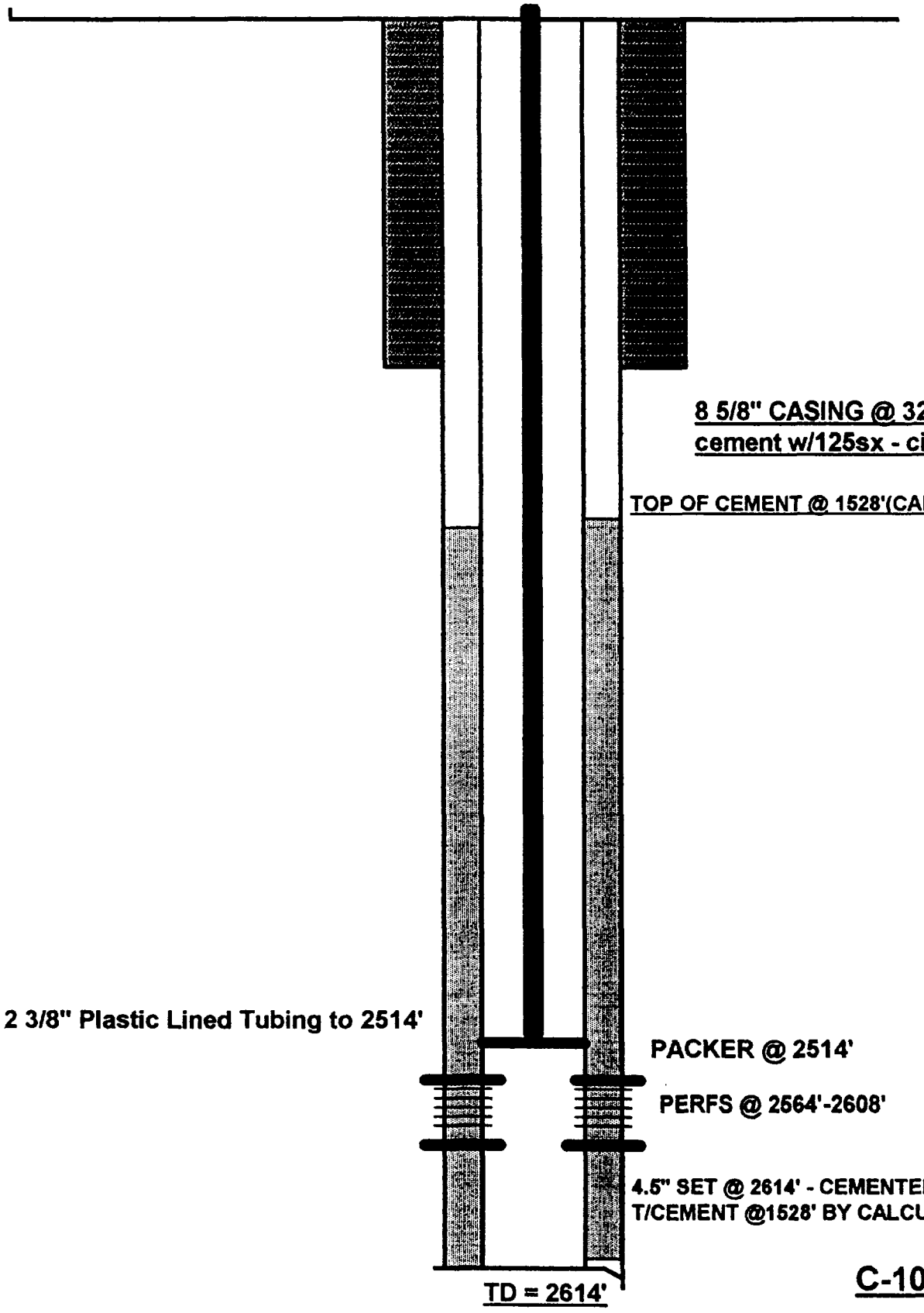
A2	**HOLE SIZE:**	11"	6.75
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	320'	2614'
A2	**CEMENT:**	125sx	100sx
A2	**TOP OF CEMENT:**	circulated	1528' CALCULATED

PROPOSED TUBULAR & PACKER INFORMATION

A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined
A3	**PACKER DEPTH:**	2514' +/- 25'
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer

B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2564'-2608'
	EXISTING PERFORATIONS:	Same
	CEMENT ABOVE TOP PERFORATION:	1478'
B3	**ORIGINAL WELL PURPOSE:**	Oil Well
B4	**OTHER PERFORATED INTERVALS:**	None
B5	**NEXT PAY ZONE - ABOVE:**	None
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #26
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

36-T8S-R28E, 1980 FNL & 1980 FWL

F

CITGO STATE #1

TLSAU #26

30-005-60031

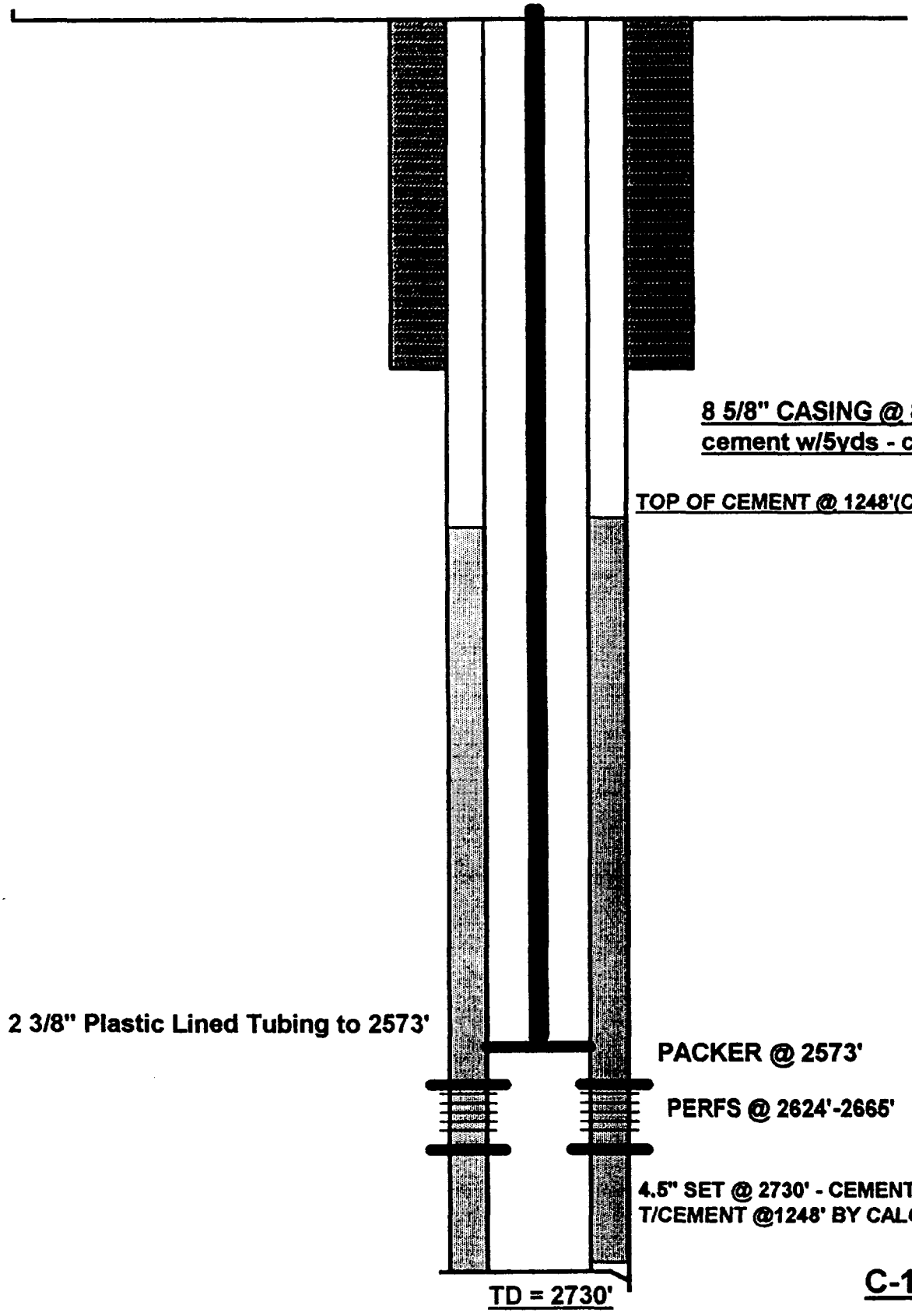
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 29	
A1	**FOOTAGE:**	2310' FNL & 990' FEL	
A1	**SECTION:**	36-T8S-R28E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	28#/ft	9.5#/ft
A2	**CASING DEPTH:**	80'	2730'
A2	**CEMENT:**	5 yds.	225sx
A2	**TOP OF CEMENT:**	Surface ?	1248' calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2573' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2623.5'-2664.5'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1141'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #29
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

36-T8S-R28E, 2310 FNL & 990 FEL H

CITGO STATE A #8

TLSAU #29

30-005-60569

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #		
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 36
A1	**FOOTAGE:**	1650 FSL & 2310 FEL
A1	**SECTION:**	36-T8S-28E
A1	**COUNTY:**	Chaves

EXISTING CASING PROGRAM

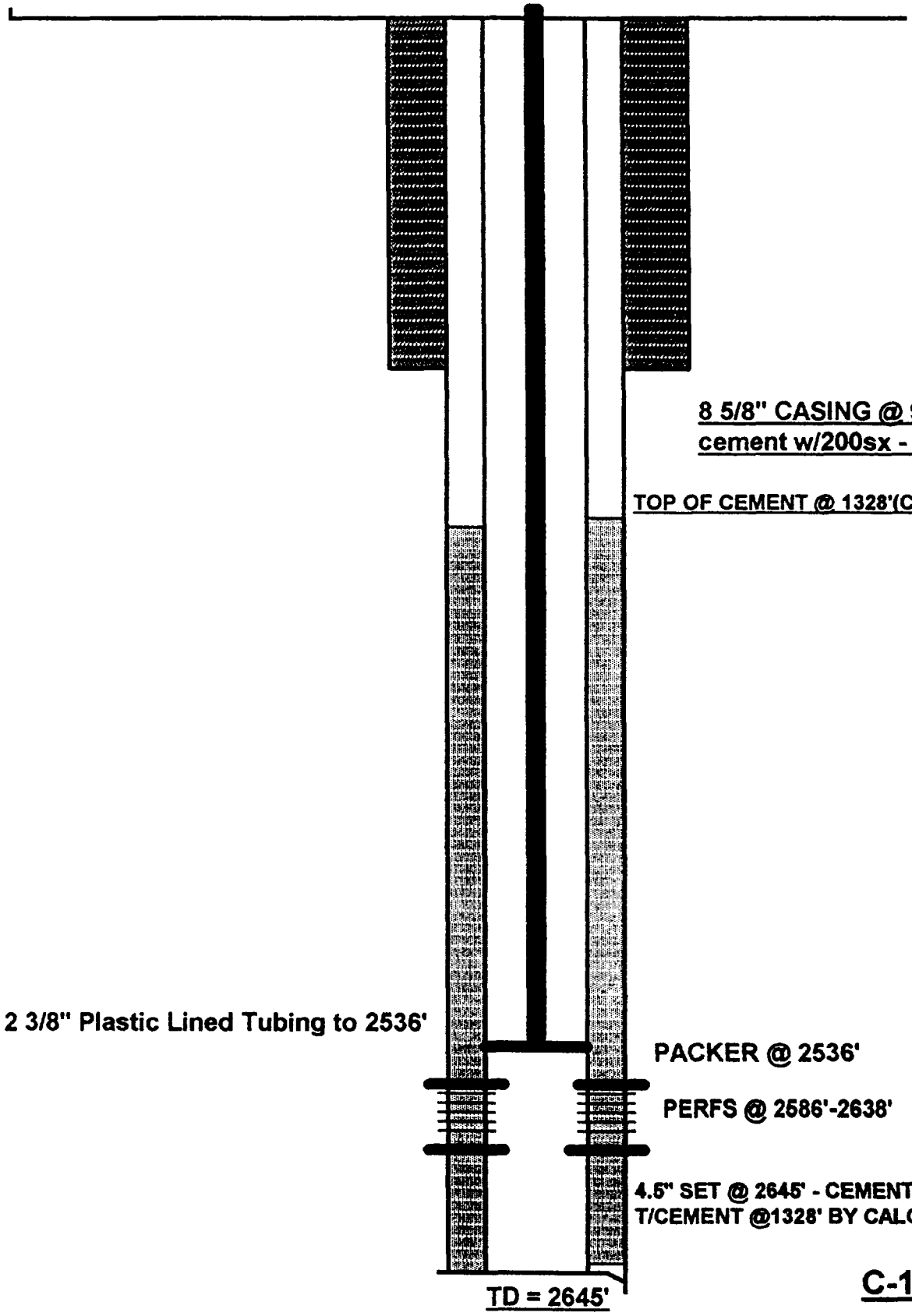
A2	**HOLE SIZE:**	11"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	24#/ft	11.6#/ft
A2	**CASING DEPTH:**	93'	2645'
A2	**CEMENT:**	200sx	200sx
A2	**TOP OF CEMENT:**	surface	1328'
		circulated	calculated

PROPOSED TUBULAR & PACKER INFORMATION

A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined
A3	**PACKER DEPTH:**	2536' +/- 25'
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer

B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2586'-2638'
	EXISTING PERFORATIONS:	Same
	CEMENT ABOVE TOP PERFORATION:	1258'
B3	**ORIGINAL WELL PURPOSE:**	Oil Well
B4	**OTHER PERFORATED INTERVALS:**	None
B5	**NEXT PAY ZONE - ABOVE:**	None
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #36
Well Schematic (Proposed)
C-108-III a & b



36-18S-R28E, 1650 FSL & 2310 FEL

CITGO STATE #2

TLSAU #36

30-005-60329

C-108 III a & b

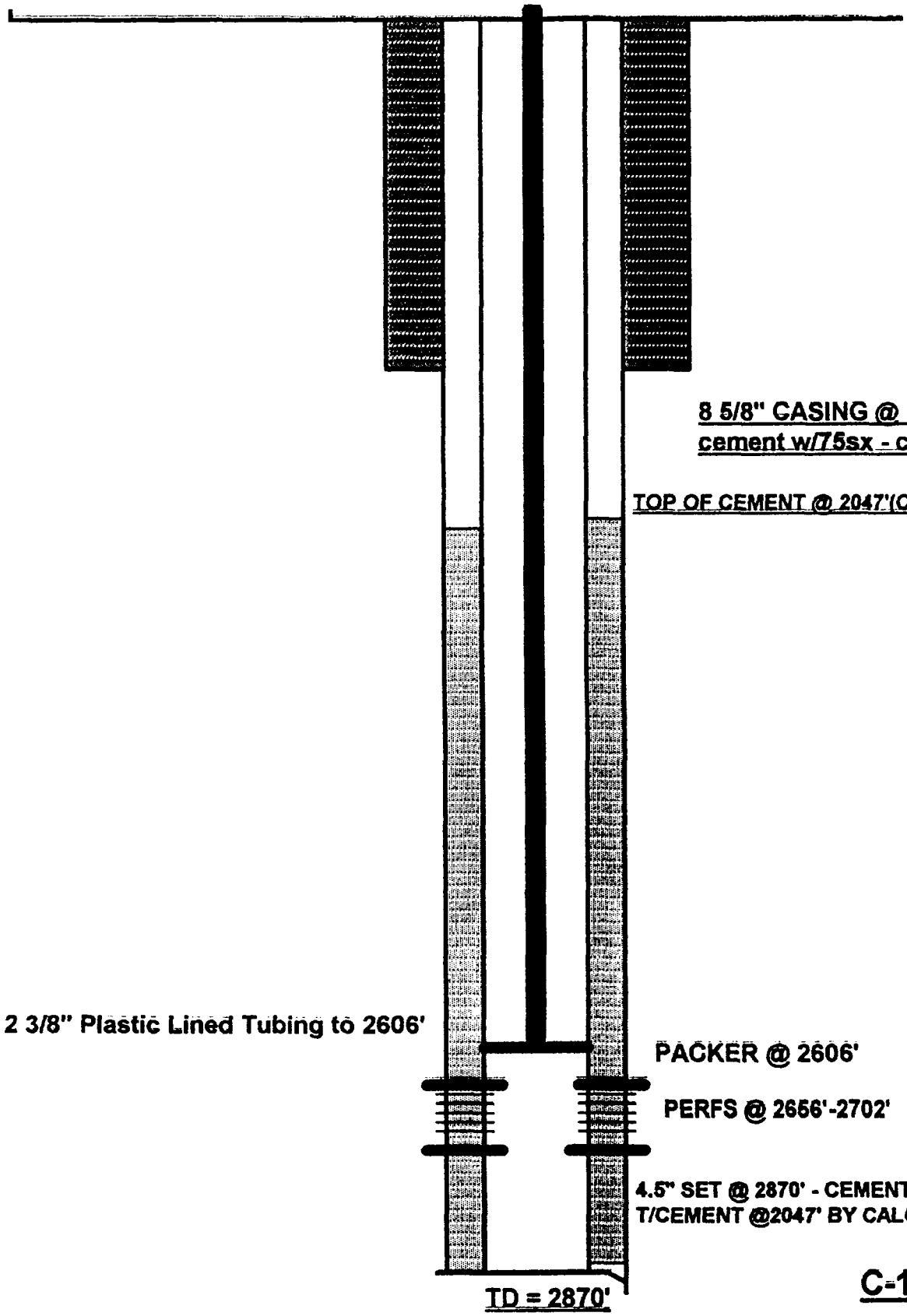
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 39	
A1	**FOOTAGE:**	1650 FSL & 330 FWL	
A1	**SECTION:**	31-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.5"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	120'	2870'
A2	**CEMENT:**	75sx	125sx
A2	**TOP OF CEMENT:**	surface	2047'
		circulated	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" EUE,J-55,4.7#/ft. 8rt. internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2606' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2656'-2702.5'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	609'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #39
Well Schematic (Proposed)
C-108-III a & b



31-18S-R29E. 1650 FSL & 330 FWL

O'BRIEN I-3

TLSAU #39

30-005-60657

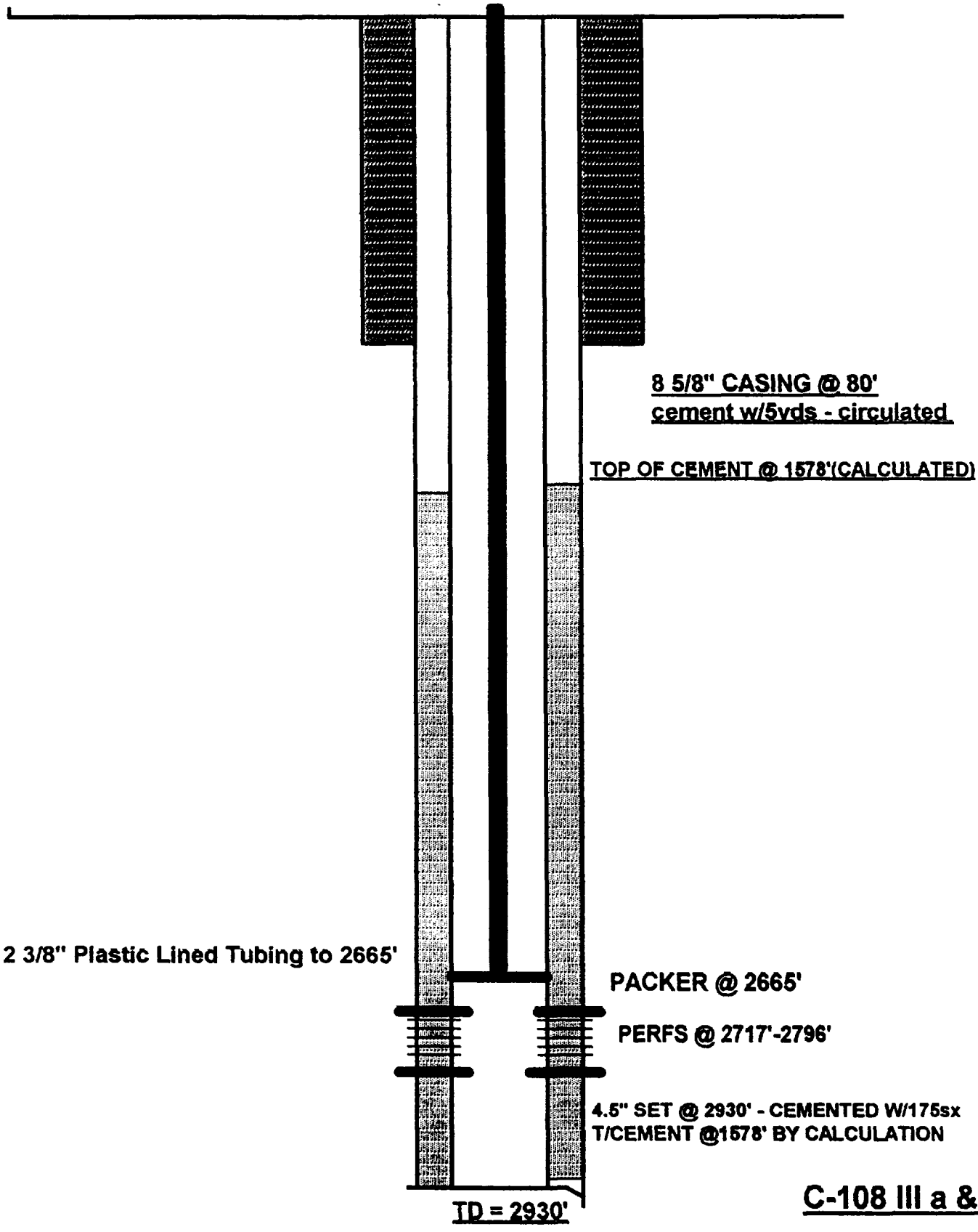
C-108 III a &

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #41	
A1	**FOOTAGE:**	1650' FSL & 2310' FEL	
A1	**SECTION:**	31-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	80'	2930'
A2	**CEMENT:**	5yds	175sx
A2	**TOP OF CEMENT:**	SURFACE?	1578' Calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2665' +/-25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2717'-2796'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1139'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #41
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

31-T8S-R29E, 1650 FSL & 2310 FEL

J

O'BRIEN J-2

TLSAU #41

30-005-60768

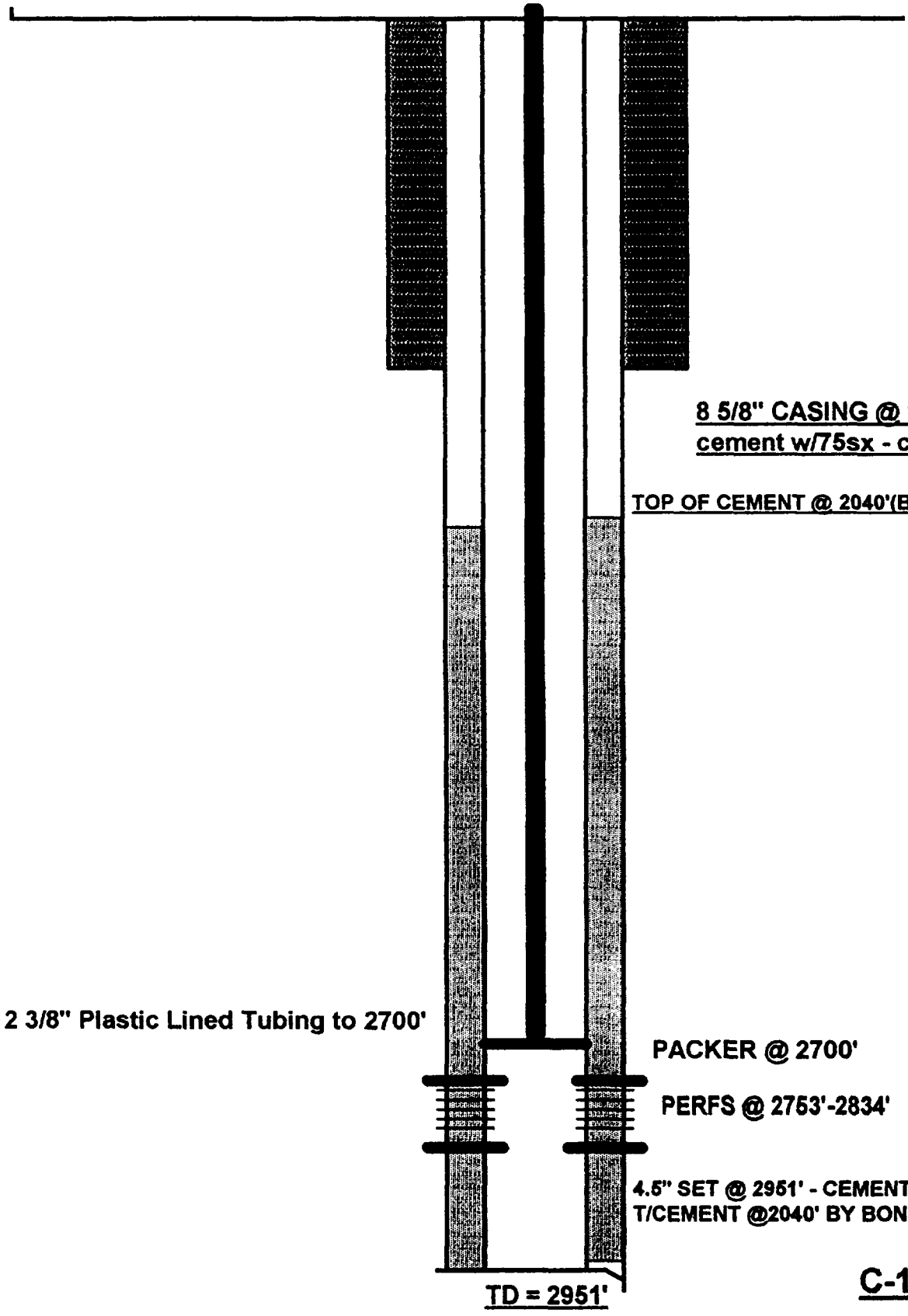
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #42	
A1	**FOOTAGE:**	1650' FSL & 990' FEL	
A1	**SECTION:**	31-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	132'	2951'
A2	**CEMENT:**	75sx	175sx
A2	**TOP OF CEMENT:**	SURFACE	2040'
		Circ. 10sx	BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2700' +/-25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2753'-2834'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	713'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #42
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

31-T8S-R29E, 1650 FSL & 990 FEL

1

O'BRIEN J-5

TLSAU #42

30-005-60802

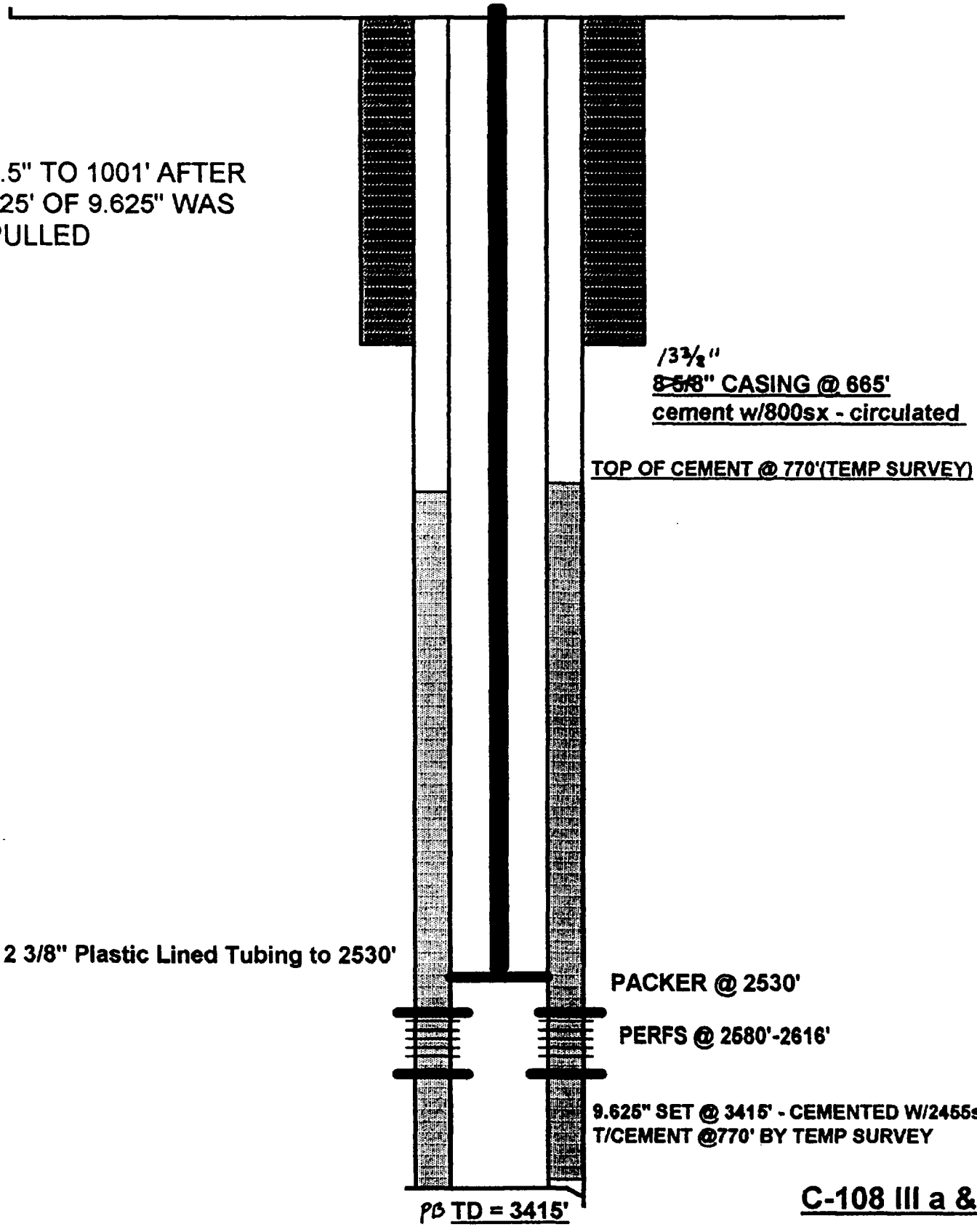
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #				
A1	**WELL NAME:**	Twin Lakes San Andres Unit #45		
A1	**FOOTAGE:**	660' FSL & 1980' FWL		
A1	**SECTION:**	36-T8S-R28E		
A1	**COUNTY:**	Chaves		
	EXISTING CASING PROGRAM			
A2	**HOLE SIZE:**	17.5"	12.25"	9.625"
A2	**CASING SIZE:**	13.375"	9.625"	5.5"
A2	**CASING WEIGHT:**	48#/ft	36#/ft	15.5#/ft
A2	**CASING DEPTH:**	665'	3415'	1001'
A2	**CEMENT:**	800sx	2455'	100sx
A2	**TOP OF CEMENT:**	SURFACE	770' TEMP SURV	815'
	PROPOSED TUBULAR & PACKER INFORMATION			
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined		
A3	**PACKER DEPTH:**	2530' +/-25'		
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer		
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres		
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2580'-2616'		
	EXISTING PERFORATIONS:	Same		
	CEMENT ABOVE TOP PERFORATION:	1810'		
B3	**ORIGINAL WELL PURPOSE:**	Oil Well		
B4	**OTHER PERFORATED INTERVALS:**	None		
B5	**NEXT PAY ZONE - ABOVE:**	None		
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')		

COMMENTS: 725' OF 9.625" CASING PULLED BY MAGNOLIA
SWEENEY RAN 1001' OF 5.5" & CEMENTED W/100sx

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #45
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

36-T8S-R28E. 660 FSL & 1980 FWL

N

CITGO ST. A-2

TLSAU #45

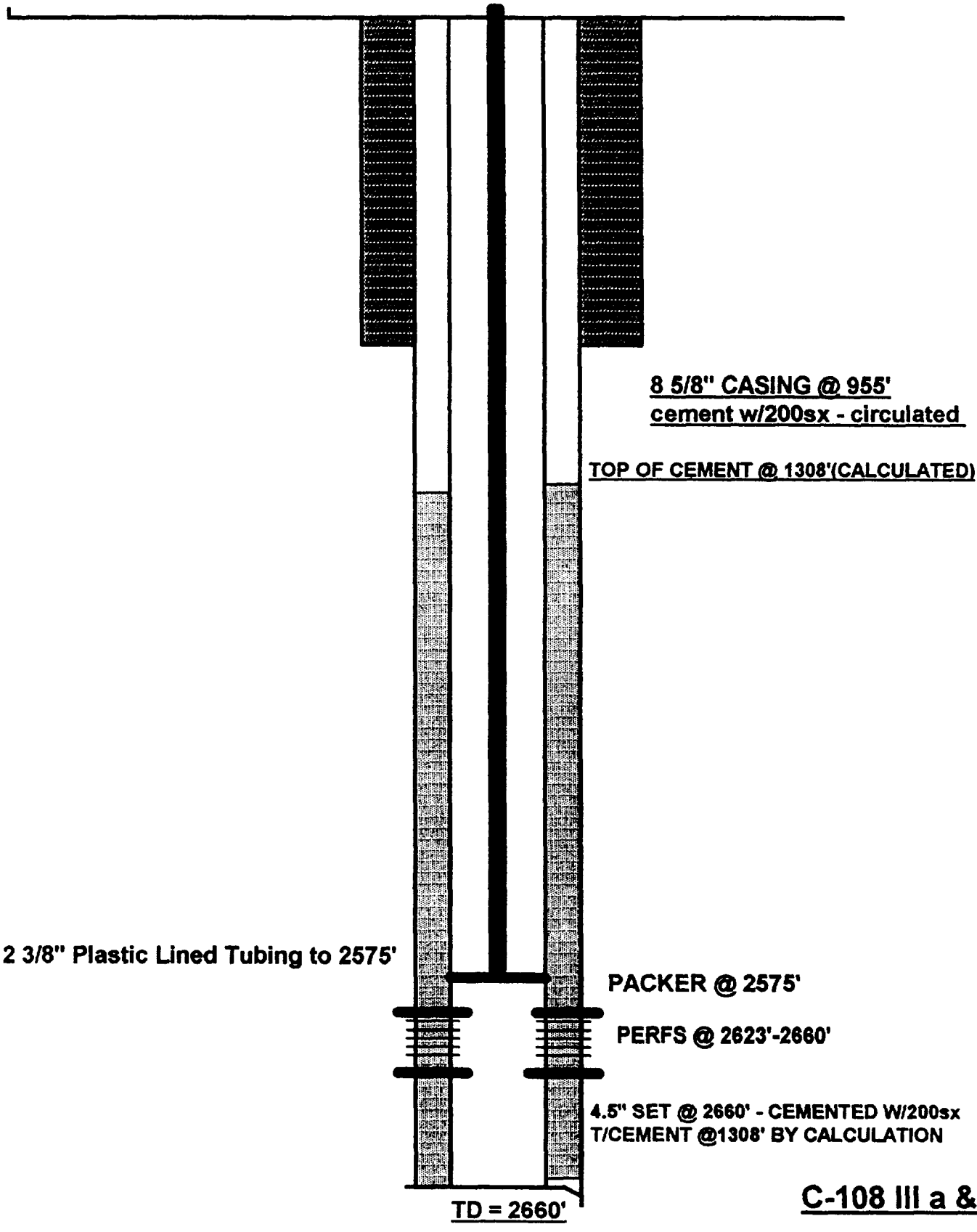
30-005-00342

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 47	
A1	**FOOTAGE:**	660' FSL & 660' FE;	
A1	**SECTION:**	36-T8S-R28E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	11"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	28#/ft	9.5#/ft
A2	**CASING DEPTH:**	955'	2660'
A2	**CEMENT:**	200sx	200sx
A2	**TOP OF CEMENT:**	SURFACE?	1308' Calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2575' +/-25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2623'-2660'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1315'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #47
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

36-T8S-R28E. 660 FSL & 660 FEL

CITGO ST. #3

TLSAU #47

30-005-60010

36.

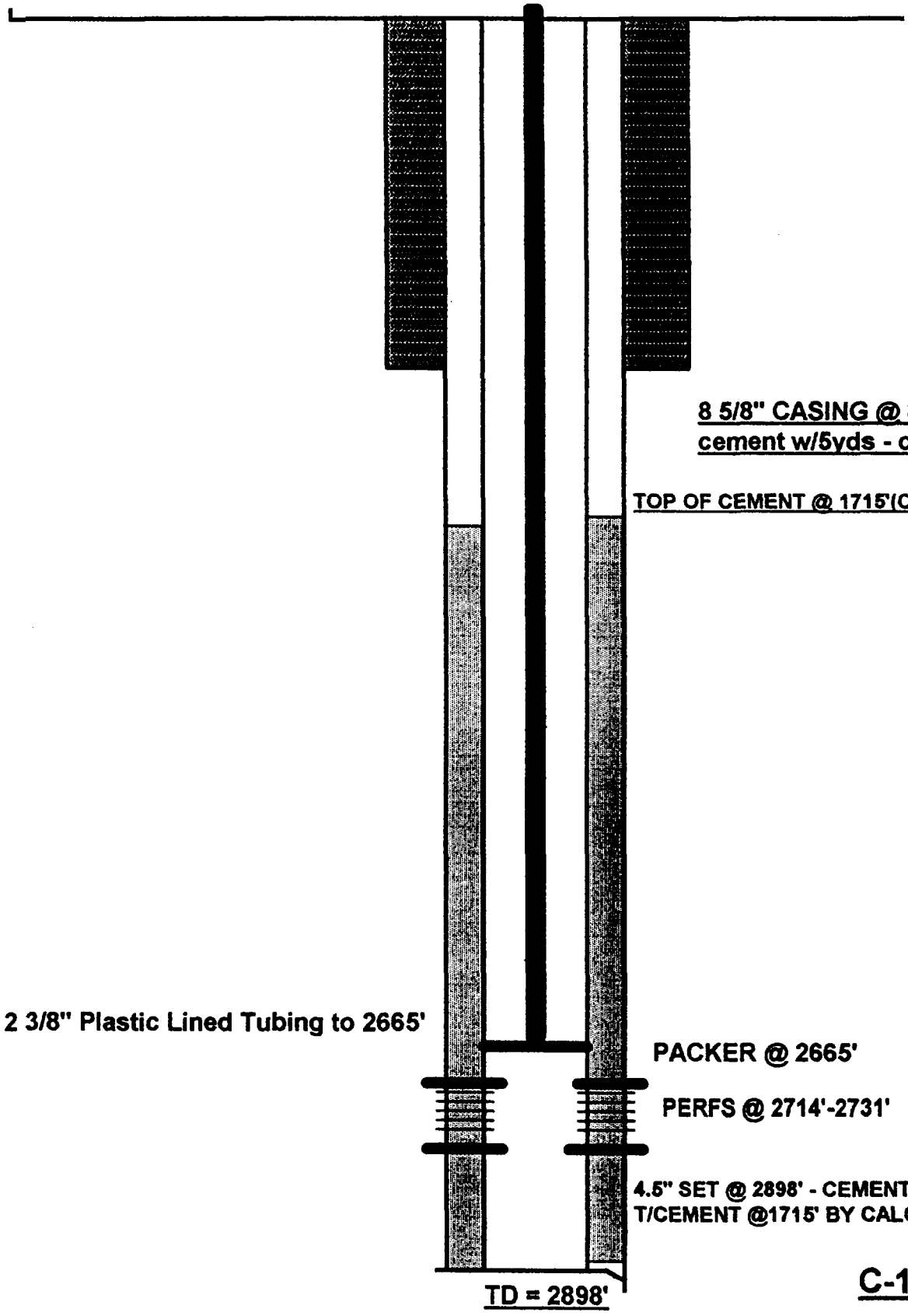
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #49	
A1	**FOOTAGE:**	560' FSL & 1650' FWL	
A1	**SECTION:**	31-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	80'	2898'
A2	**CEMENT:**	5yds	175sx
A2	**TOP OF CEMENT:**	SURFACE	1715'
			Calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2665' +/-25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2714'-2731'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1000'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #49
Well Schematic (Proposed)
C-108-III a & b



31-T8S-R28E. 560 FSL & 1650 FWL

N

O'BRIEN 1-8

TLSAU #49

30-005-60767

C-108 III a & b

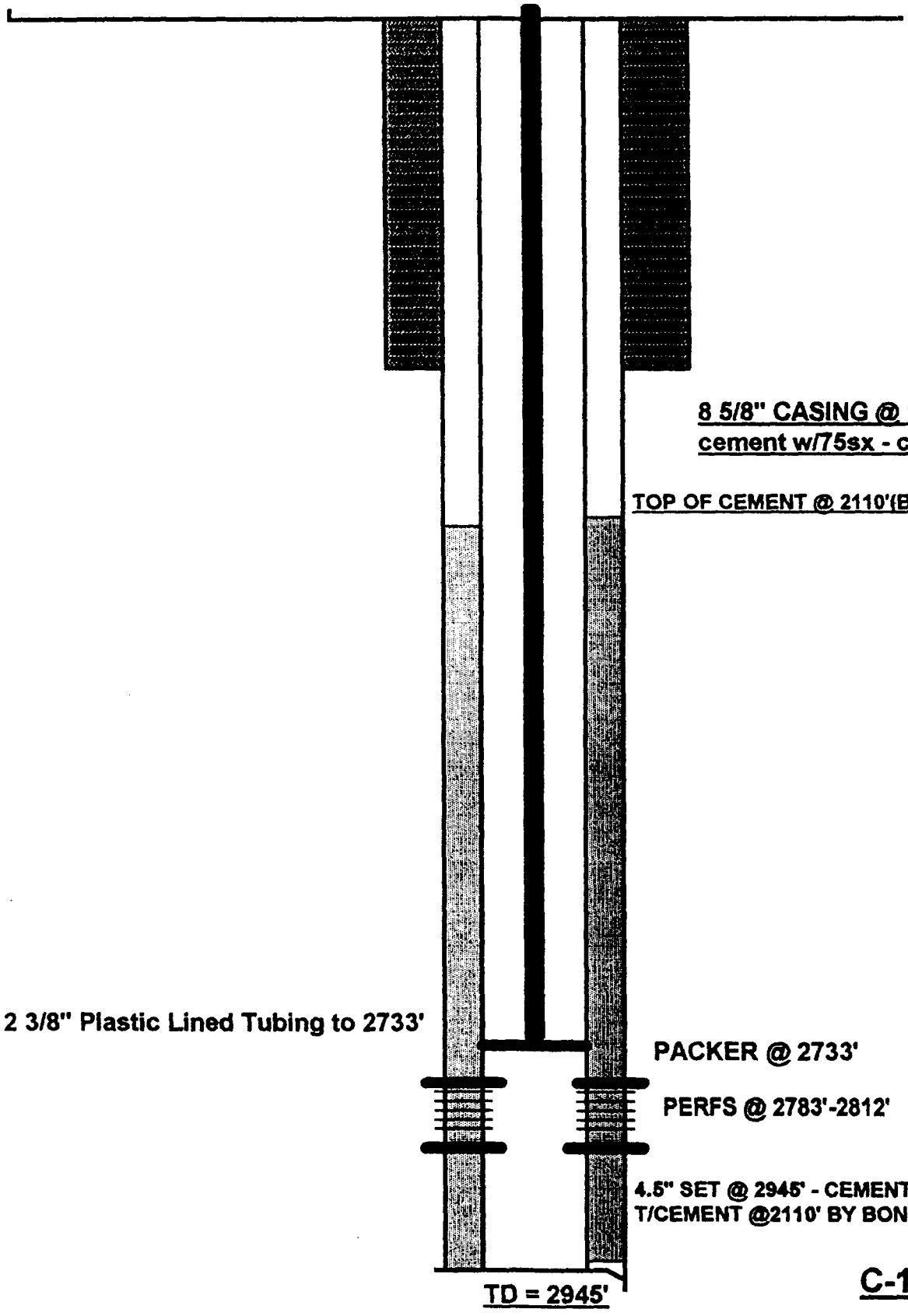
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #51	
A1	**FOOTAGE:**	560' FSL & 990' FEL	
A1	**SECTION:**	31-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20#/ft	9.5#/ft
A2	**CASING DEPTH:**	126'	~~2495'~~ 2945'
A2	**CEMENT:**	75sx	175sx
A2	**TOP OF CEMENT:**	SURFACE	2110'
		Circ 20sx	BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2733' +/-25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2783'-2812'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	673'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B6	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #51
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

31-T8S-R29E. 560 FSL & 990 FEL

P

O'BRIEN J-6

TLSA1 #51

30-005-60810

4D.

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 58	
A1	**FOOTAGE:**	330 FNL & 330' FWL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	9.5 #/ft
A2	**CASING DEPTH:**	133'	2823'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1471'
		Circ. 10sx	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2615' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2665'-2743'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1194'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

6-T9S-R29E. 330 FNL & 330 FWL

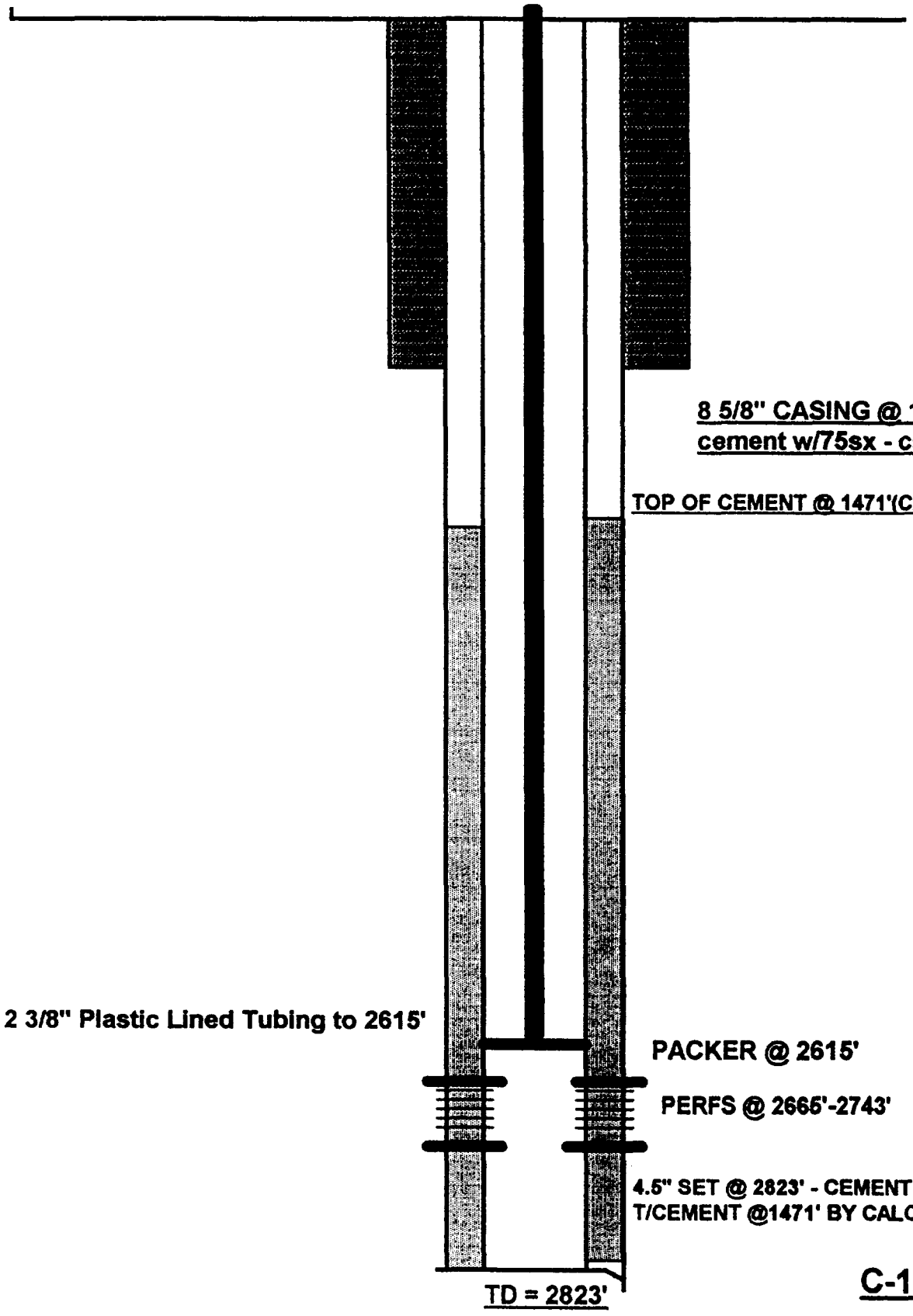
D

O'BRIEN L-12

TLSAU #58

30-005-61031

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #58
Well Schematic (Proposed)
C-108-III a & b



6-T9S-R29E. 330 FNL & 330 FWL

D

O'BRIEN L-12

TLSAU #58

30-005-61031

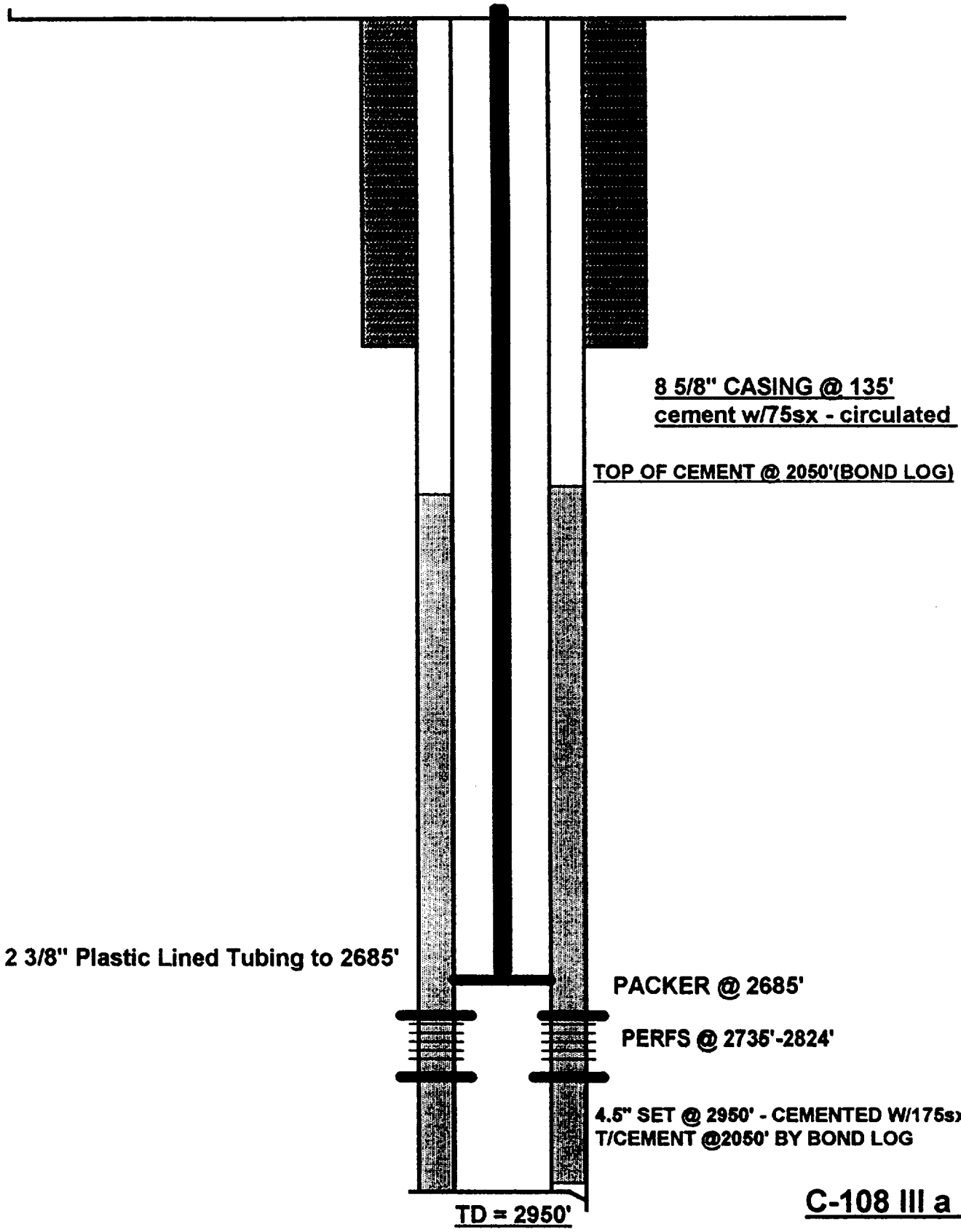
C-108 III a & b

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #60	
A1	**FOOTAGE:**	330' FNL & 2310' FEL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	9.5#/ft
A2	**CASING DEPTH:**	135'	2950'
A2	**CEMENT:**	75sx	175sx
A2	**TOP OF CEMENT:**	SURFACE	2050' BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2685' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2735'-2824'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	685'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #60
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

6-T9S-R29E. 330 FNL & 2310 FEL

B

O'BRIEN L-2

TLSAU #60

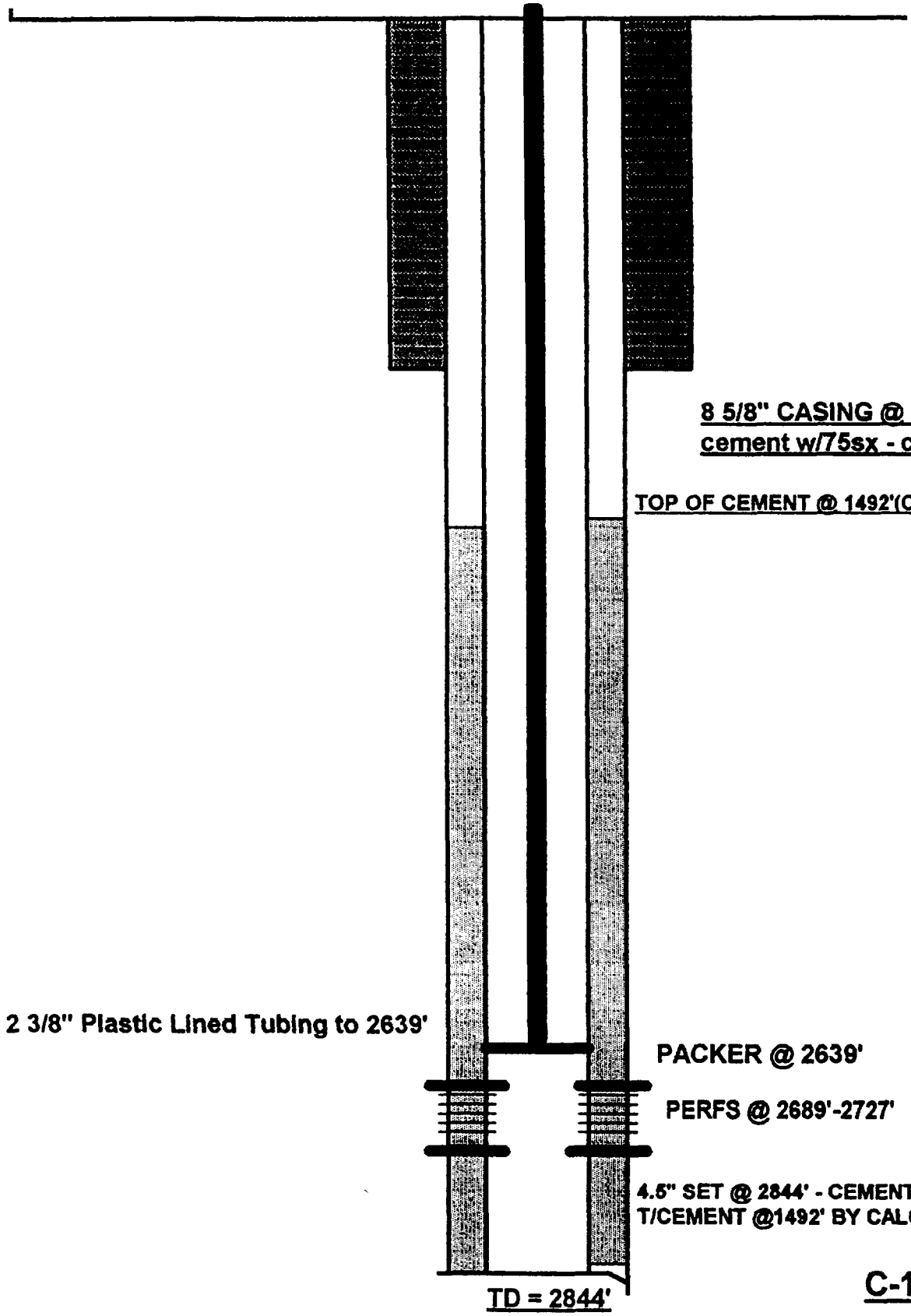
30-005-60824

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #69	
A1	**FOOTAGE:**	1650' FNL & 1650' FWL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	9.5 #/ft
A2	**CASING DEPTH:**	130'	2844'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1492'
		Circ. 20sx	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2639' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2689'-2727'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1197'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #69
Well Schematic (Proposed)
C-108-III a & b



6-T9S-R29E. 1650 FNL & 1650 FWL

F

O'BRIEN L-8

TLSAU #69

30-005-60984

C-108 III a & b

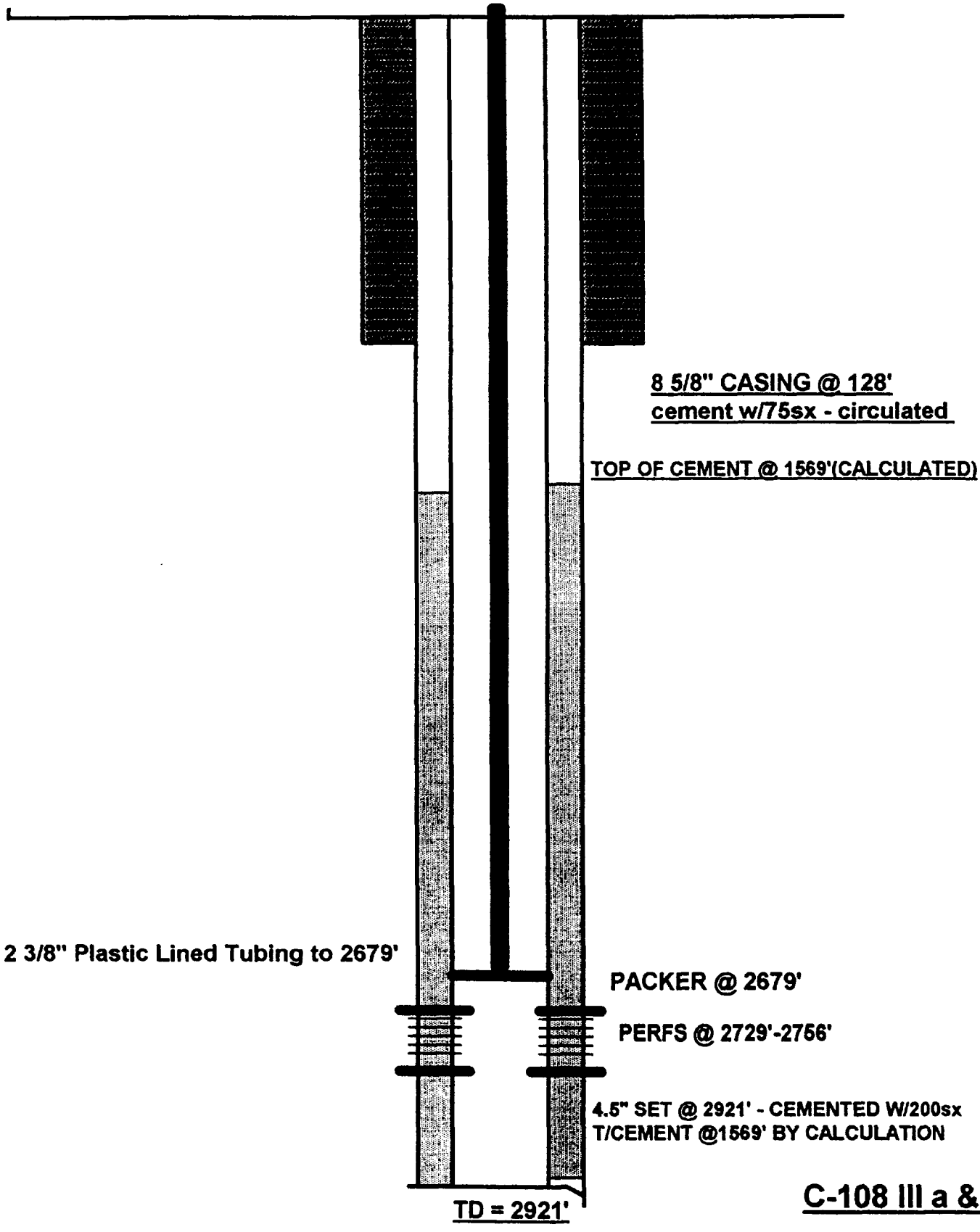
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 72	
A1	**FOOTAGE:**	1650' FNL & 990' FEL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	11"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	9.5 #/ft
A2	**CASING DEPTH:**	128'	2921'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1569' Calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2679' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2729'-2756'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1160'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #72
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

6-T9S-R29E. 1650 FNL & 990 FEL

H

O'BRIEN 1-5

TLSAU #72

30-005-60886

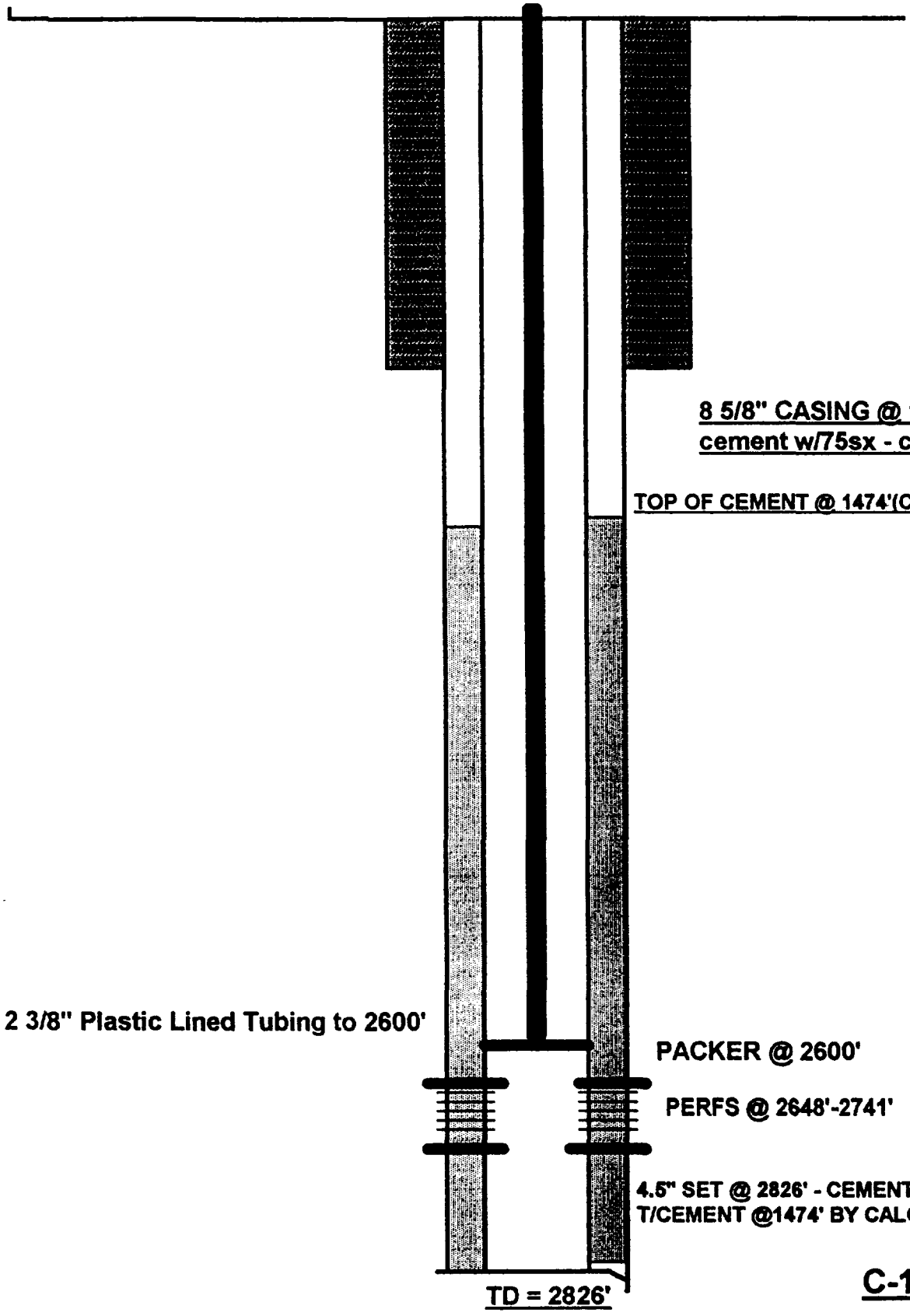
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #77	
A1	**FOOTAGE:**	2310' FSL & 330' FWL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	9.5 #/ft
A2	**CASING DEPTH:**	130'	2826'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1474' Calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2600' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2648'-2741'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1174'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #77
Well Schematic (Proposed)
C-108-III a & b



6-T9S-R29E. 2310 FSL & 330 FWL

L

O'BRIEN 1-13

TLSAU #77

30-005-61032

C-108 III a & b

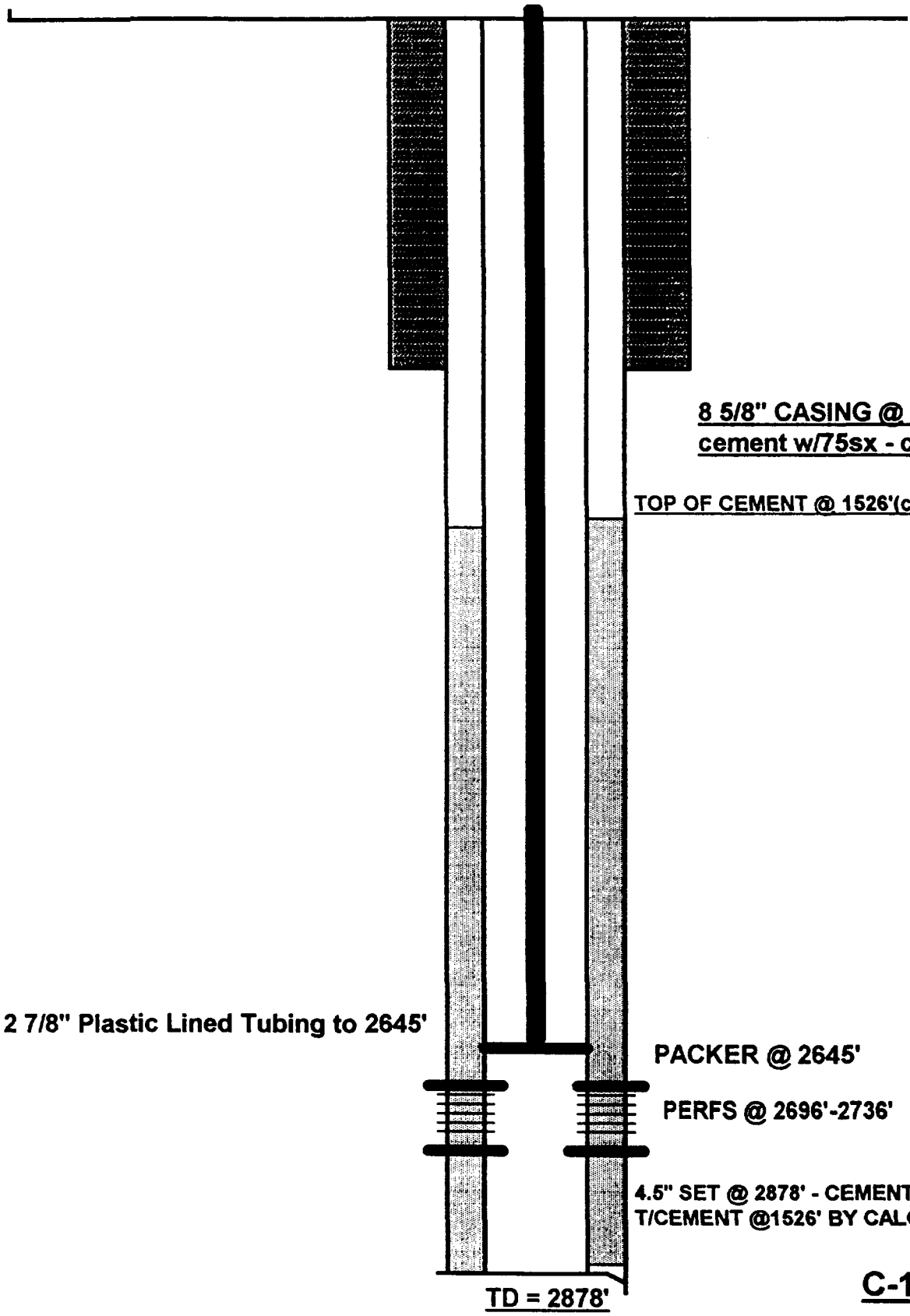
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #79	
A1	**FOOTAGE:**	2310 FSL & 2310 FEL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20.5 #/ft	9.5 #/ft
A2	**CASING DEPTH:**	134'	2878'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	surface	1526'
		circ. 20sx	calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2645' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2696'-2736'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1170'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B6	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #79
Well Schematic (Proposed)
C-108-III a & b



6-T9S-R29E, 2310 FSL & 2310 FEL

N

O'BRIEN FF-1

TLSAU #79

30-005-60982

C-108 III a & b

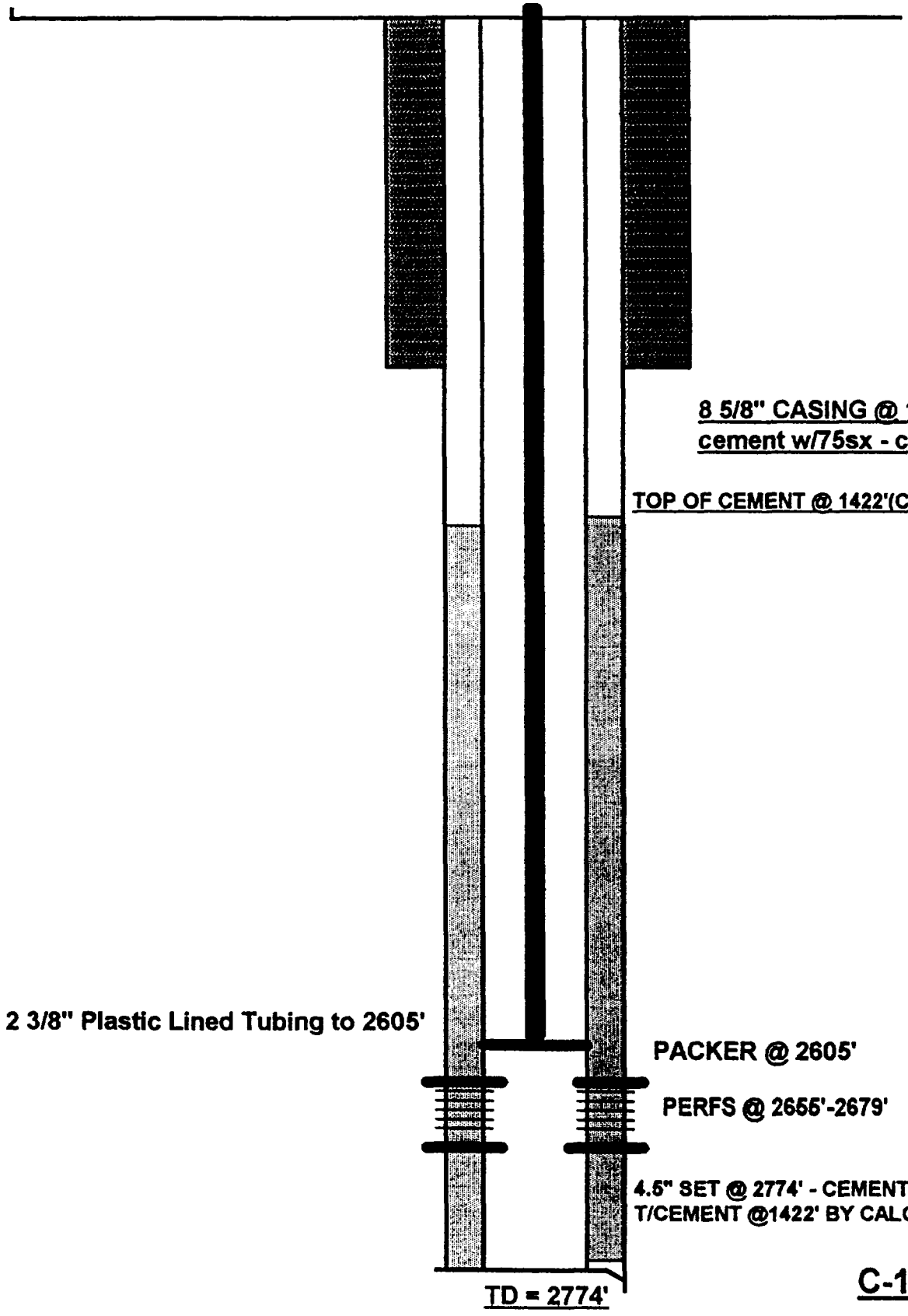
52.

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #87	
A1	**FOOTAGE:**	1650' FWL & 990' FSL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	9.5 #/ft
A2	**CASING DEPTH:**	134'	2774'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1422'
		Circ. 5sx	Calculated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2605' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2655'-2679'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1233'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #87
Well Schematic (Proposed)
C-108-III a & b



6-T9S,R29E. 990 FNL & 1650 FWL

N

O'BRIEN 1-11

TLSAU #87

30-005-61030

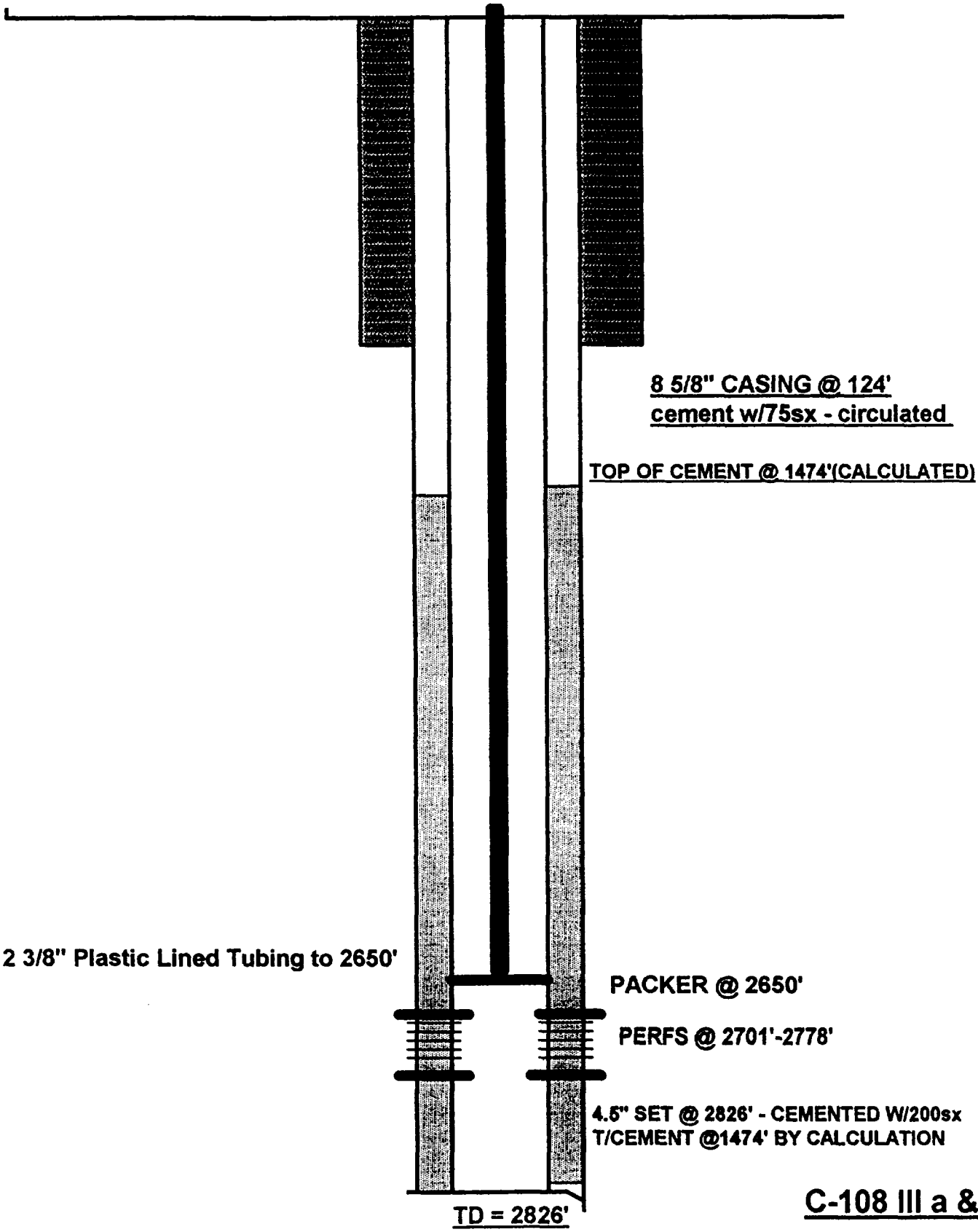
C-108 III a & b

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 89	
A1	**FOOTAGE:**	990' FSL & 990' FEL	
A1	**SECTION:**	6-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/FT	9.5 #/FT
A2	**CASING DEPTH:**	124'	2826'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1474'
		Circulated	CALCULATED
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2650' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2701'-2778'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1227'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #89
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

6-T9S-R29E.. 990 FSL & 990 FEL

P

O'BRIEN FT-5

TLSAU #89

30-005-61022

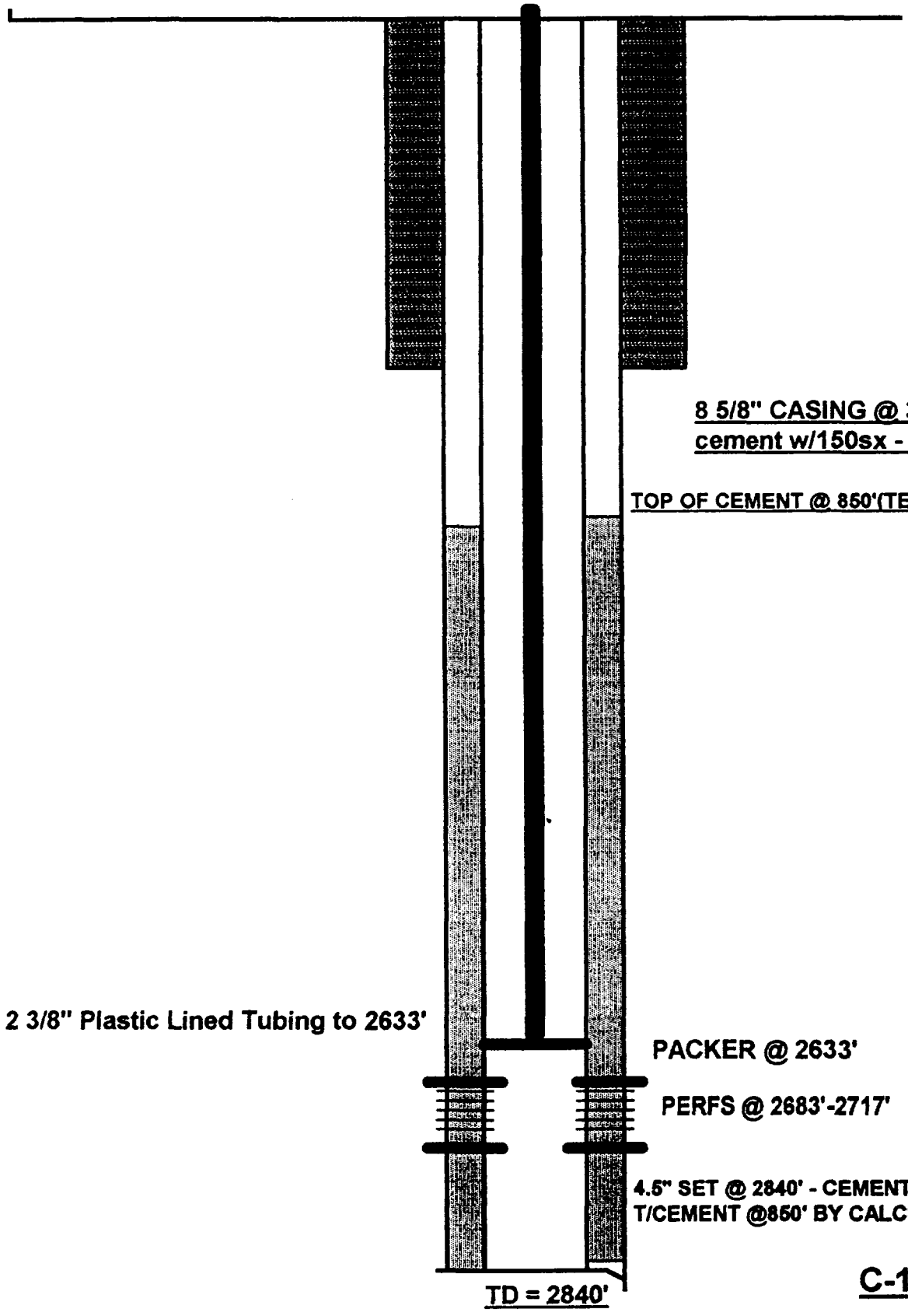
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 94	
A1	**FOOTAGE:**	330' FNL & 2310' FEL	
A1	**SECTION:**	7-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	24 #/ft	10.5 #/FT
A2	**CASING DEPTH:**	320'	2840'
A2	**CEMENT:**	150sx	900sx
A2	**TOP OF CEMENT:**	SURFACE	850'
		Circ. 25sx	TEMP SURVEY
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2633' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2683'-2717'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1833'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B6	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #94
Well Schematic (Proposed)
C-108-III a & b



7-T9S-R29E. 330 FNL & 2310 FEL

B

MOONSHINE 7-5

TLSAU #94

30-005-61106

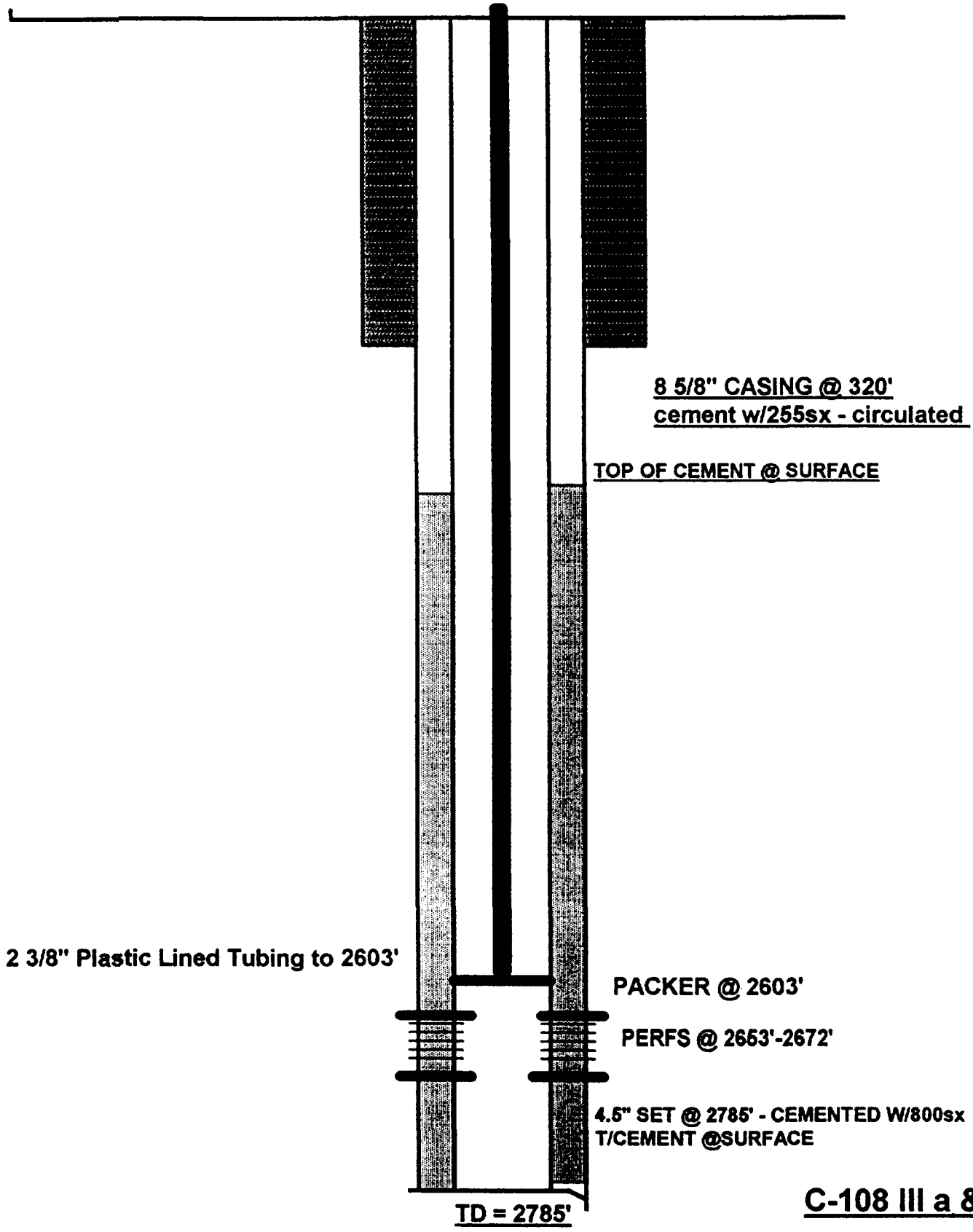
C-108 III a & b

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 102	
A1	**FOOTAGE:**	1980' FNL & 1980' FWL	
A1	**SECTION:**	7-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	10.75"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	24 #/ft	10.5 #/ft
A2	**CASING DEPTH:**	320'	2785"
A2	**CEMENT:**	255sx	800sx
A2	**TOP OF CEMENT:**	SURFACE	SURFACE
		Circ. 65sx	Circulated
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2603' +/- 25"	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2653'-2672"	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	2653'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #102
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

7-T9S-R29E. 1980 FNL & 1980 FWL

F

MOONSHINE 7-1

TLSAU #102

30-005-60844

40.

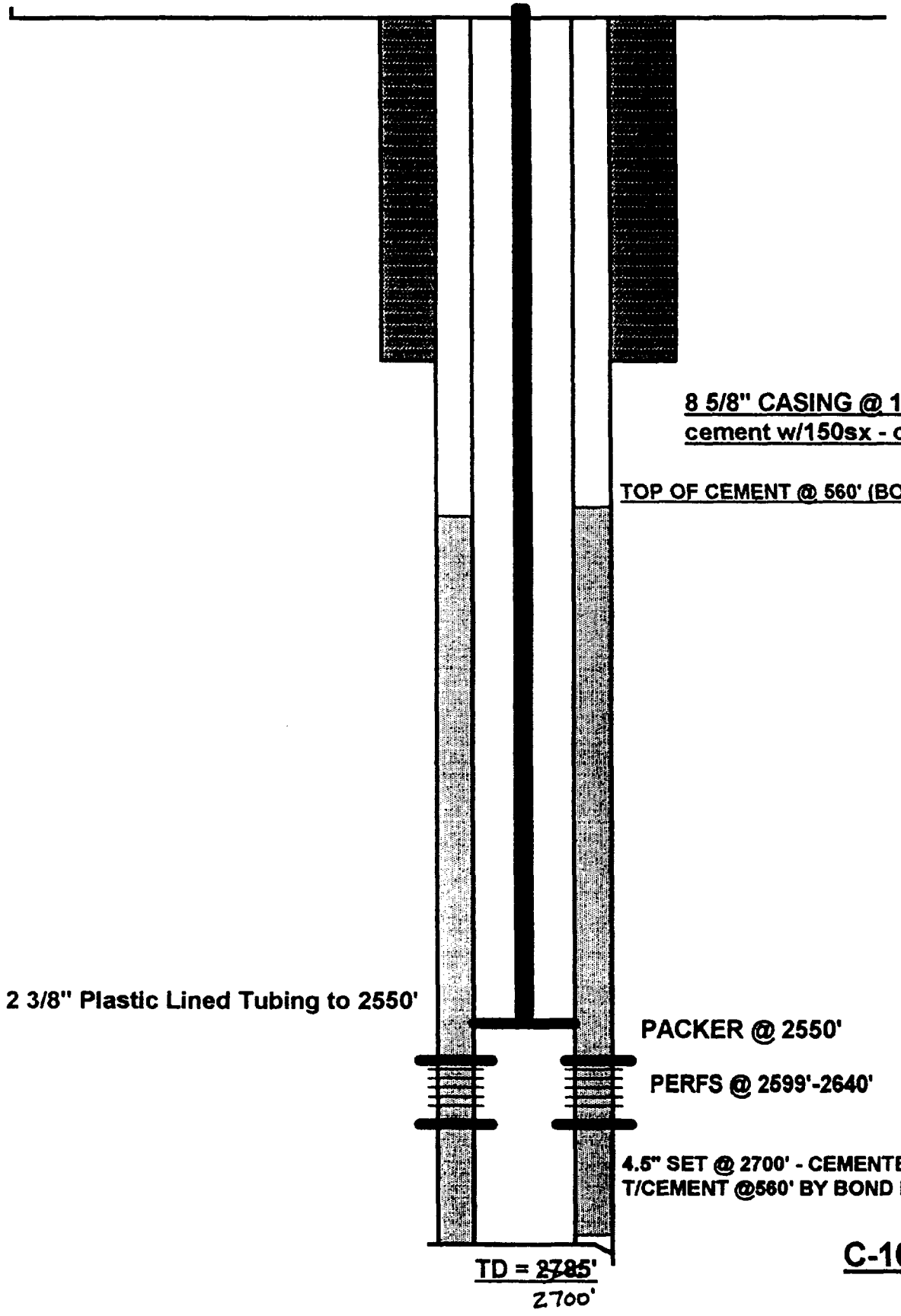
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 106	
A1	**FOOTAGE:**	2310' FSL & 330' FWL	
A1	**SECTION:**	7-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	24 #/ft	10.5 #/FT
A2	**CASING DEPTH:**	166'	2700'
A2	**CEMENT:**	150sx	900sx
A2	**TOP OF CEMENT:**	SURFACE	560'
		Circ. 25sx	BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2550' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2599'-2640'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	2039'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #106
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

7-T9S-R29E. 2310 FSL & 330 FWL L MOONSHINE 7-7 TLSAU #106 30-005-61332

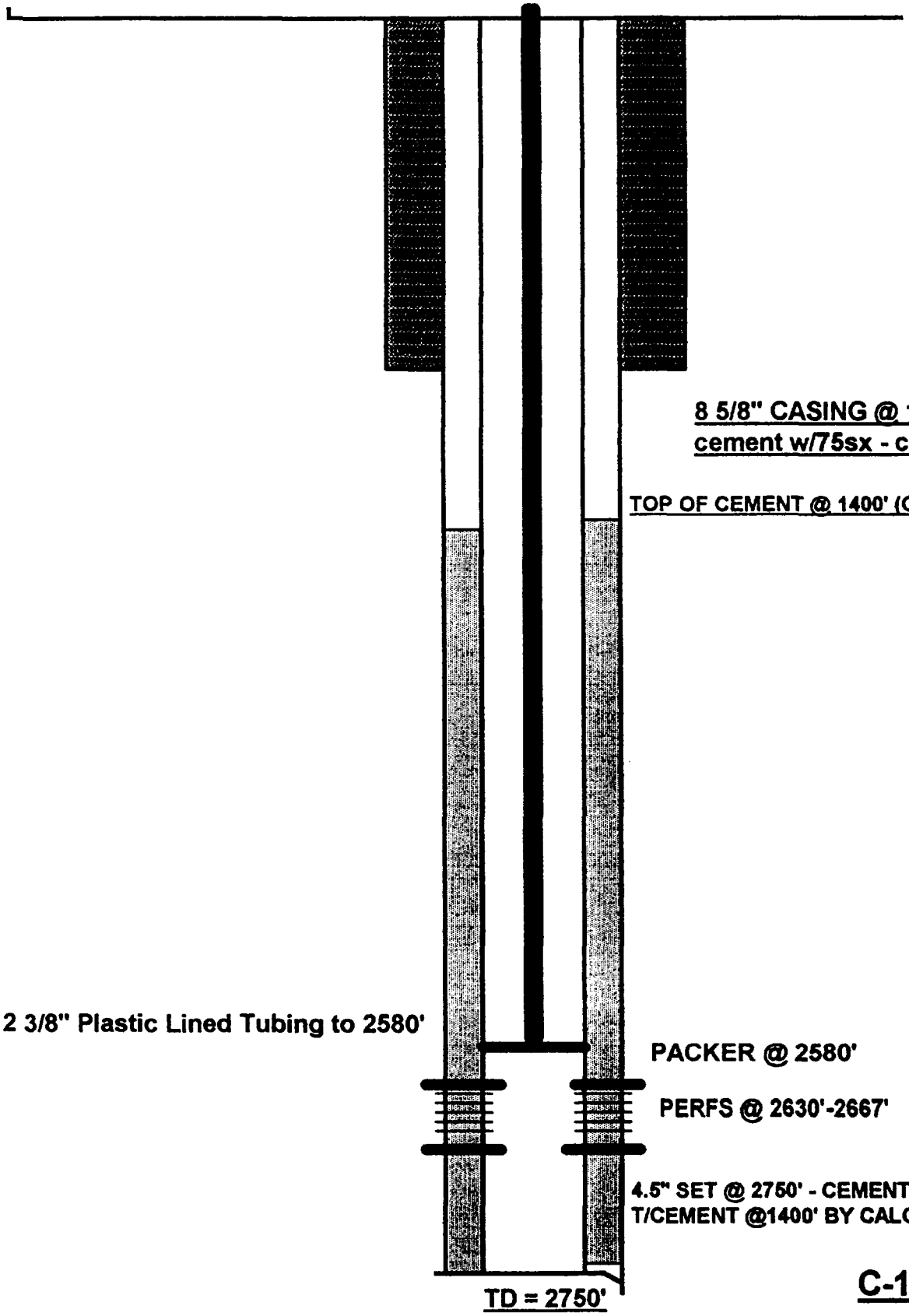
4-7

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #110	
A1	**FOOTAGE:**	1650' FSL & 330' FEL	
A1	**SECTION:**	12-T9S-R28E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	23 #/ft	10.5 #/ft
A2	**CASING DEPTH:**	118'	2750'
A2	**CEMENT:**	75sx	200sx
A2	**TOP OF CEMENT:**	SURFACE	1400'
		Circ. 15sx	CALCULATED
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2580' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2630'-2667'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1230'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #110
Well Schematic (Proposed)
C-108-III a & b



12-T9S-R28E, 1650 FSL & 330 FEL

OBRIEN DB-1

TLSAU #110

30-005-61556

C-108 III a & b

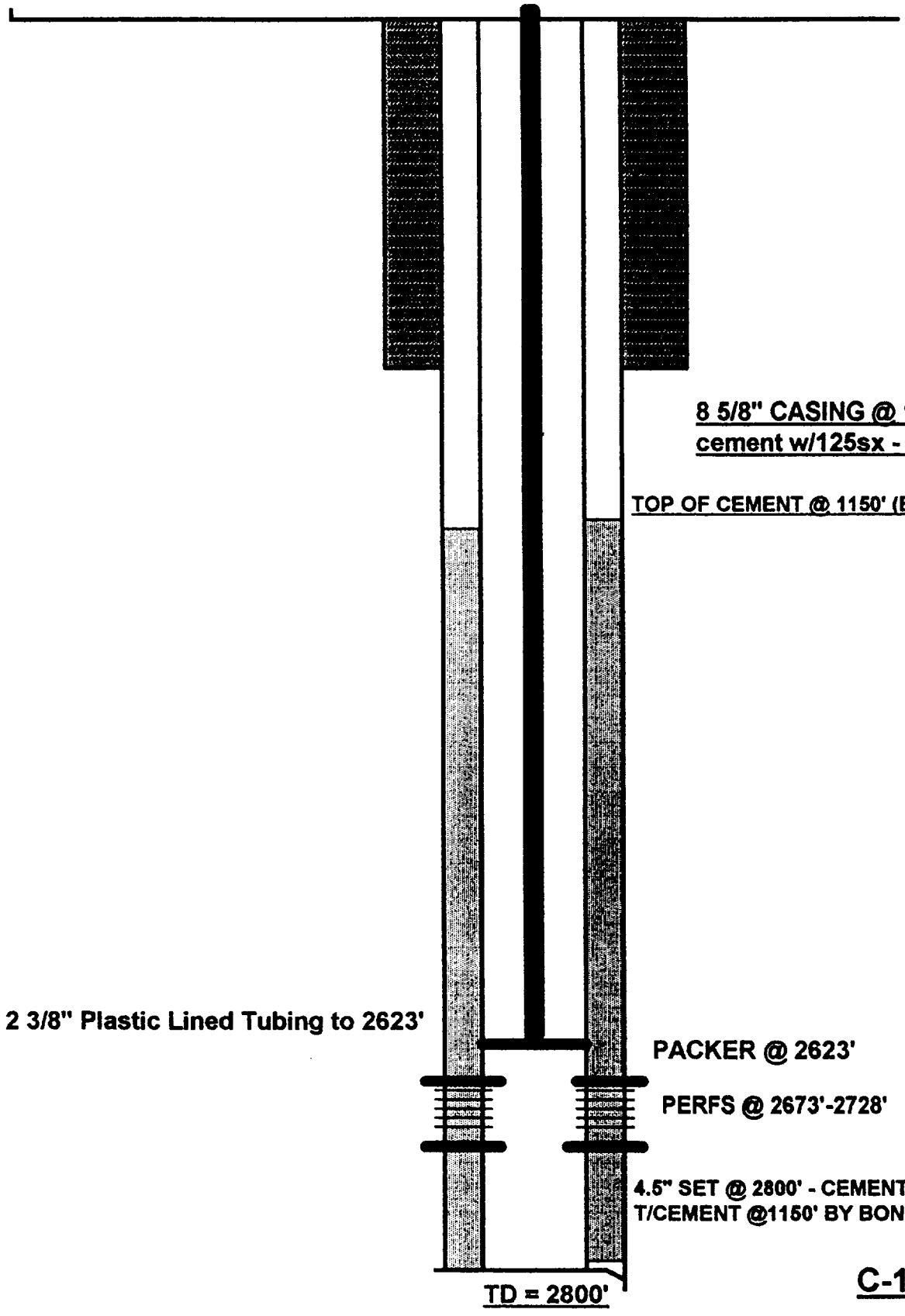
64

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 112	
A1	**FOOTAGE:**	990' FSL & 1650' FWL	
A1	**SECTION:**	7-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	20 #/ft	11 #/ft
A2	**CASING DEPTH:**	170'	2800'
A2	**CEMENT:**	125sx	900sx
A2	**TOP OF CEMENT:**	SURFACE	1150'
		Circ. 35sx	BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2623' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2673'-2728'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1523'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #112
Well Schematic (Proposed)
C-108-III a & b



7-T9S-R29E. 990 FSL & 1650 FWL

N

MOONSHINE 7-8

TLSAU #112

30-005-61333

C-108 III a & b

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

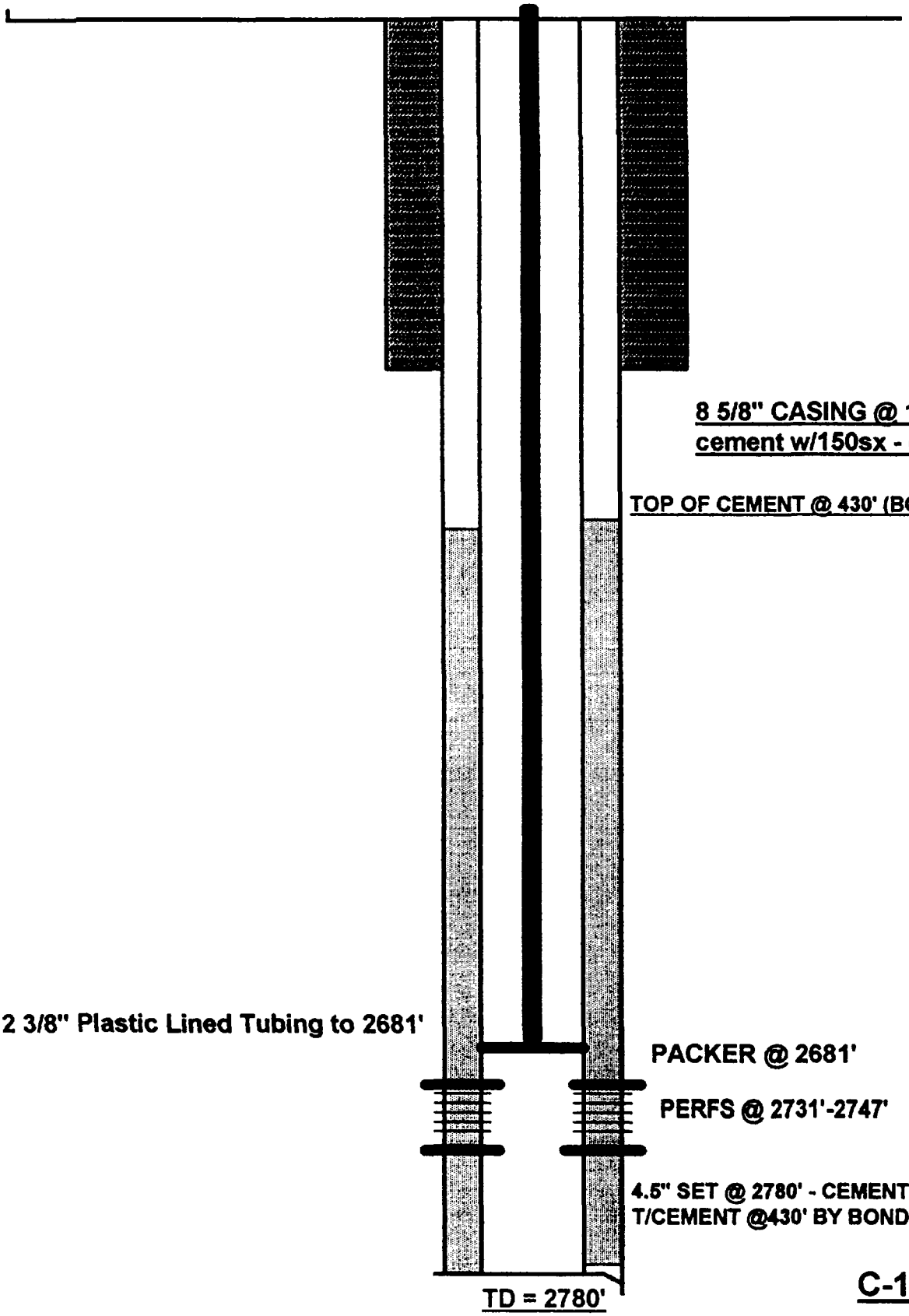
TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit #117	
A1	**FOOTAGE:**	330' FNL & 1650' FWL	
A1	**SECTION:**	18-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	168'	4.5"
A2	**CASING WEIGHT:**	24 #/ft	10.5 #/ft
A2	**CASING DEPTH:**	168'	2780'
A2	**CEMENT:**	150sx	900sx
A2	**TOP OF CEMENT:**	SURFACE	430'
		Circ 20sx	BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2681' +*- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2731'-2747'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	2301'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

COMMENTS: 8/13/93 SET CIBP @ 2681' (50" above u/perf) W/35sx Class "H"
Found hole in 4.5" casing between 405' & 375'
Hole has apparently not been repaired

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #117
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

18-T9S-R29E. 330 FNL & 1650 FWL

C

MOONSHINE 18-1

TLSAU #117

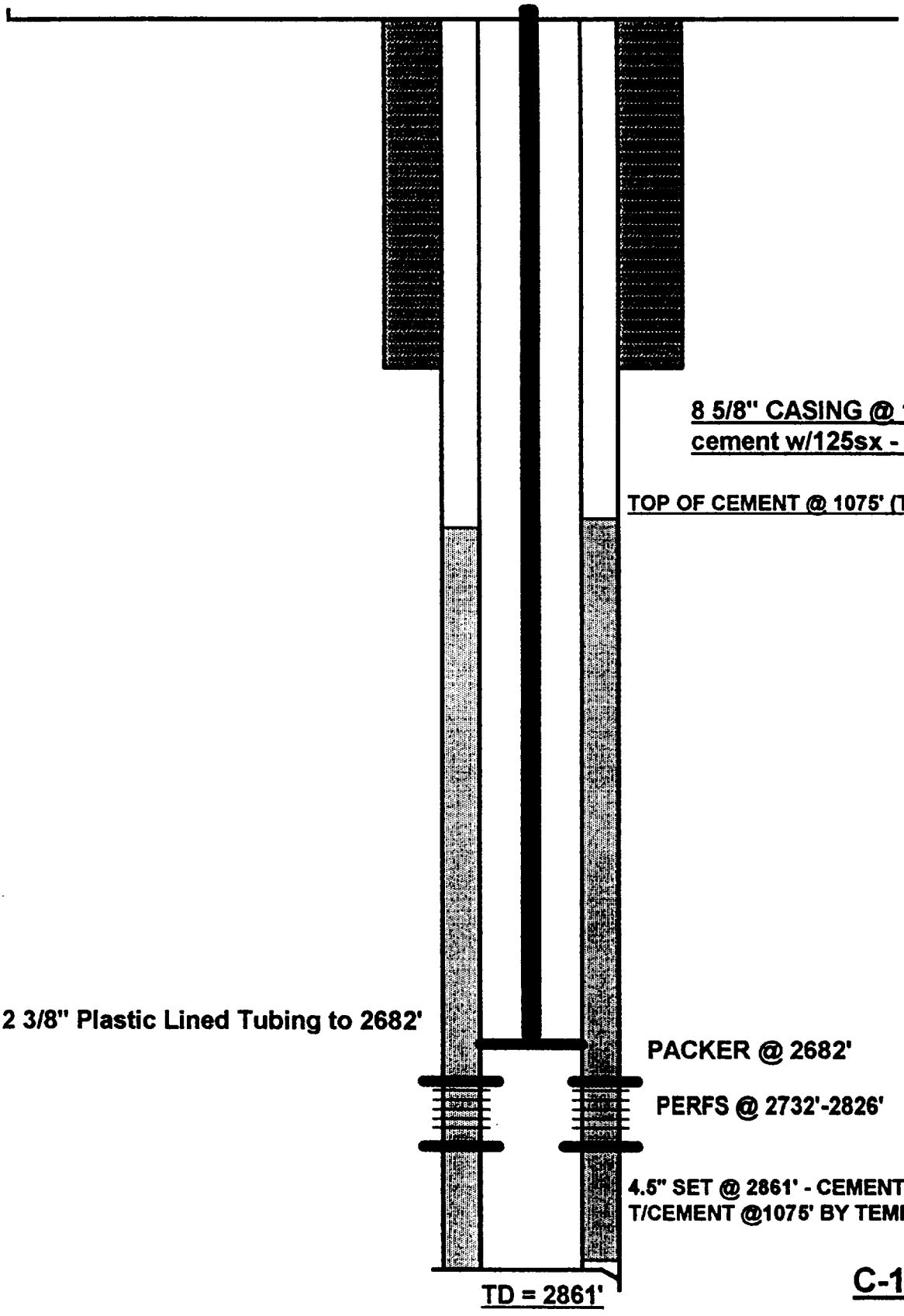
30-005-61454

HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 120	
A1	**FOOTAGE:**	1650' FNL & 2310' FEL	
A1	**SECTION:**	18-T9S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	4.5"
A2	**CASING WEIGHT:**	24 #/ft	10.5 #/ft
A2	**CASING DEPTH:**	145'	2861'
A2	**CEMENT:**	125sx	800sx
A2	**TOP OF CEMENT:**	SURFACE	1075'
		Circulated 25sx	Temp Survey
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2682' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2732' - 2826'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	1657'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #120
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

18-T9S-R29E, 1650 FNL & 2310 FEL

G

MOONSHINE 18-3

TLSAU #120

30-005-61624

10.

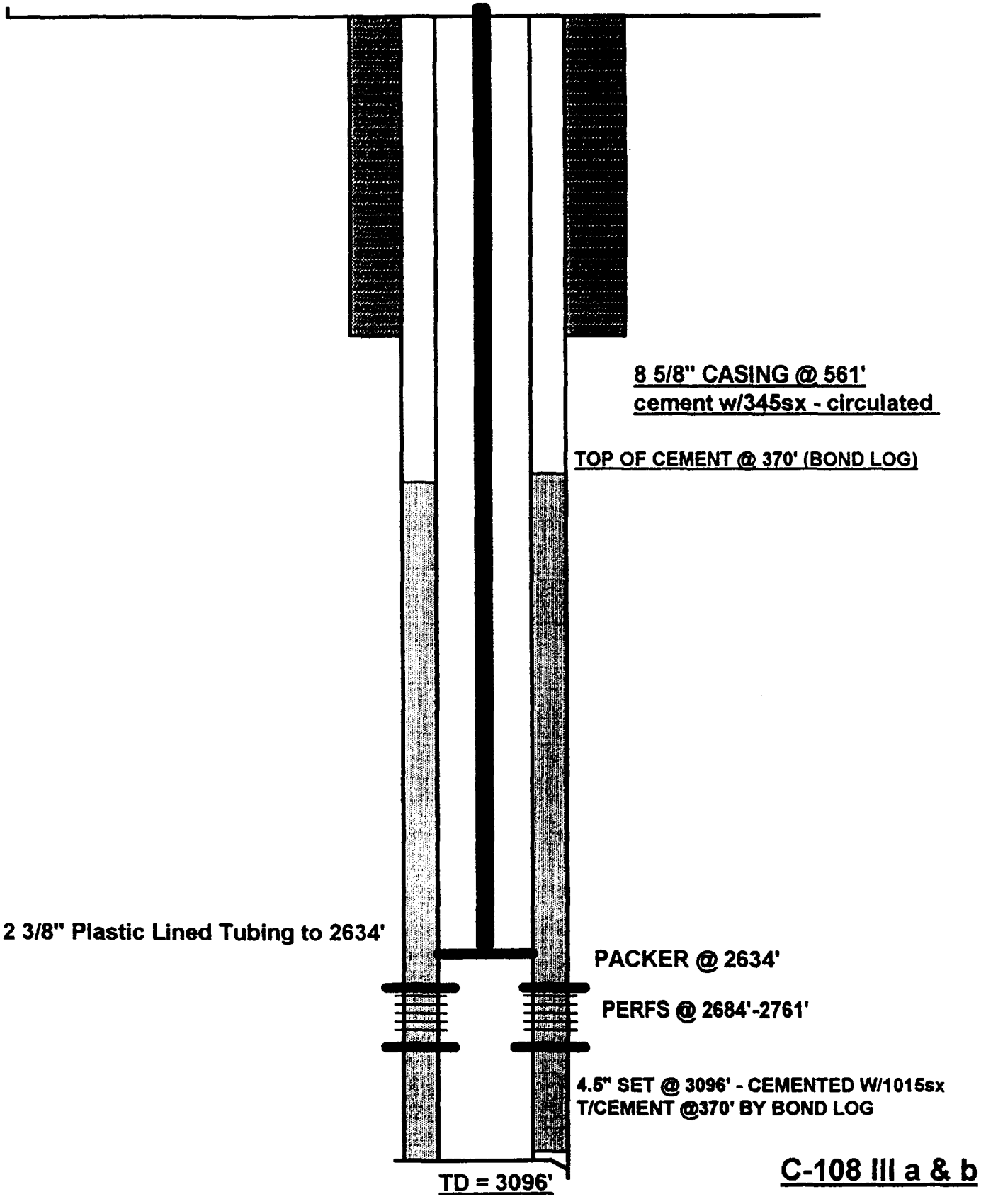
HANAGAN PETROLEUM CORPORATION
TWIN LAKES SAN ANDRES WATERFLOOD UNIT

TABLE C-108 III-A & B

C-108-III

ITEM #			
A1	**WELL NAME:**	Twin Lakes San Andres Unit # 123	
A1	**FOOTAGE:**	2237' FNL & 1679' FWL	
A1	**SECTION:**	31-T8S-R29E	
A1	**COUNTY:**	Chaves	
	EXISTING CASING PROGRAM		
A2	**HOLE SIZE:**	12.25"	7.875"
A2	**CASING SIZE:**	8.625"	5.5"
A2	**CASING WEIGHT:**	24 #/FT	15.5 #/FT
A2	**CASING DEPTH:**	561'	3096'
A2	**CEMENT:**	345SX	1015SX
A2	**TOP OF CEMENT:**	SURFACE	370'
		CIRC-60sx	BOND LOG
	PROPOSED TUBULAR & PACKER INFORMATION		
A3	**TUBING:**	2.375" 4.7#/ft J55 internally plastic coated or fiberglass lined	
A3	**PACKER DEPTH:**	2634' +/- 25'	
A4	**PACKER TYPE:**	Halliburton R4 internally coated tension packer	
B1	**PROPOSED INJECTION FORMATION:**	San Andres / Twin Lakes, San Andres	
B2	**PROPOSED INJECTION INTERVAL:**	Perforations from: 2684' - 2761'	
	EXISTING PERFORATIONS:	Same	
	CEMENT ABOVE TOP PERFORATION:	2314'	
B3	**ORIGINAL WELL PURPOSE:**	Oil Well	
B4	**OTHER PERFORATED INTERVALS:**	None	
B5	**NEXT PAY ZONE - ABOVE:**	None	
B5	**NEXT PAY ZONE - BELOW:**	Devonian @ 7200' (+/- 100')	

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #123
Well Schematic (Proposed)
C-108-III a & b



C-108 III a & b

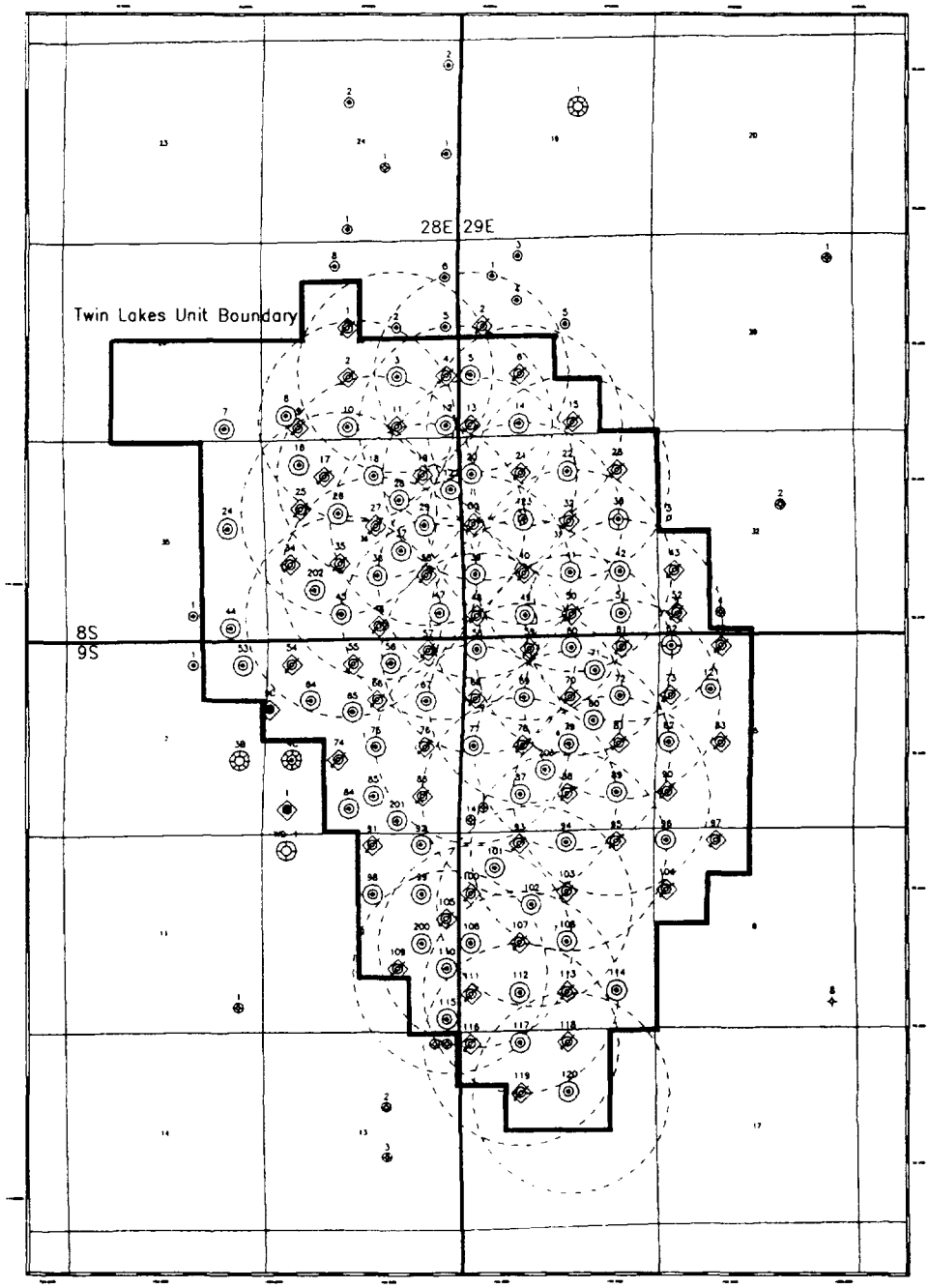
31-T8S-R29E. 2237 FNL & 1679 FWL

TLSAU #123

TLSAU #123

30-005-62845

12.



LEGEND
- Unit Producer
- Injector
- Non-Unit Producer

N

Hanagan Petroleum Corporation

TWIN LAKES SAN ANDRES UNIT #79
Application for Injection (C-108)
Area of Review

Chaves Co., NM		C-108 Item V
1"=5000'		Hanagan

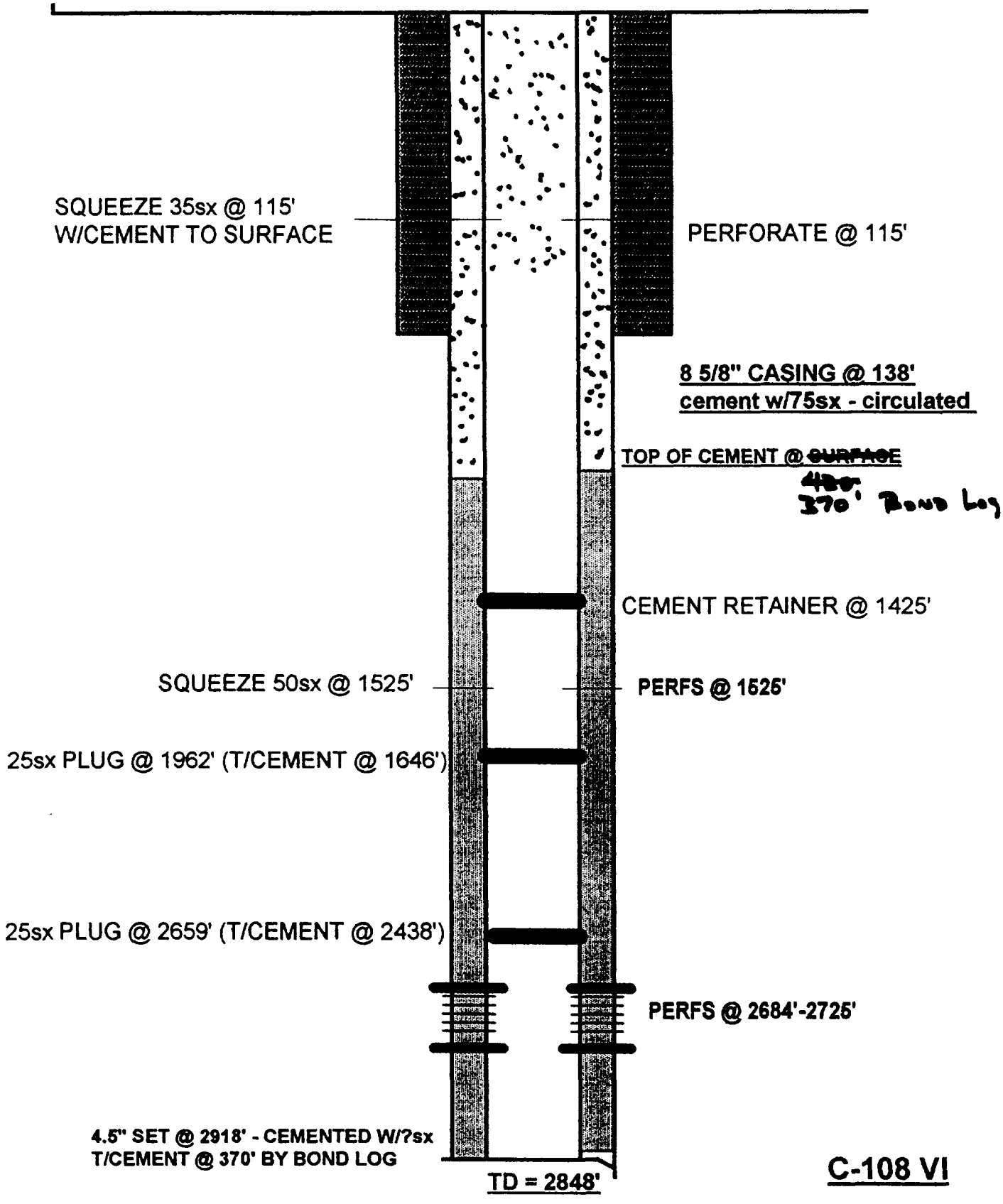
12

TABULATION OF WELL RECORDS WITHIN AREA OF REVIEW

(FOR ACTIVITY SUBSEQUENT TO SEPTEMBER 9, 1987)

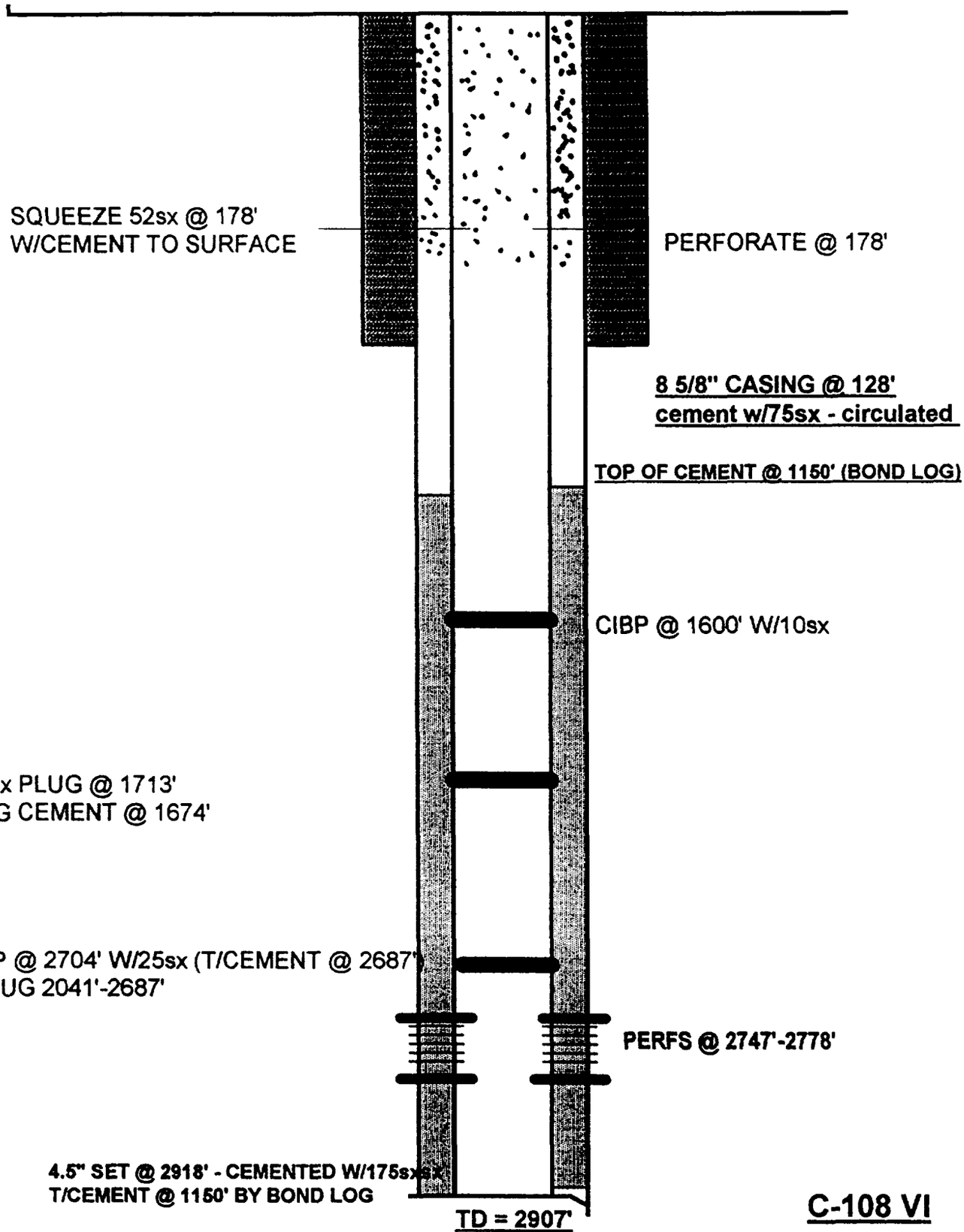
WELL NAME & LOCATION	DATE COMPL	CASING RECORD	T.O.C	PROD.PERFS	WELL TYPE	STATUS
TLSAU #31, UT. F-31-T8S-R29E	1980	8.625" @ 138', CEMENT W/75sx 4.5" @ 2918', CEMENT W/? sx	SURFACE 370' (BOND LOG)	2684'-2725'	OIL	P & A
TLSAU #33, UT. G-31-T8S-R29E	1981	8.625" @ 128', CEMENT W/75sx 4.5" @ 2918', CEMENT W/175sx	SURFACE 1150' (BOND LOG)	2747'-2778'	OIL	P & A
TLSAU #62, UT. D-5-T9S-R29E	1981	8.625" @ 130', CEMENT W/75sx 4.5" @ 2930', CEMENT W/200sx	SURFACE 2054' (BOND LOG)	2780'-2823'	OIL	P & A
TLSAU #121, UT. F-5-T9S-R29E	1991	8.625" @ 556', CEMENT W/345sx 5.5" @ 3100', CEMENT W1105sx	SURFACE SURFACE	2839'-2892'	OIL	ACTIVE
TLSAU #122, UT. H-36-T8S-R28E	4/91	8.625" @ 566', CEMENT W/345sx 5.5" @ 3100', CEMENT W/825sx	SURFACE 550' (BOND LOG)	2642'-2706'	OIL	ACTIVE
TLSAU #200, UT. I-12-T9S-R28E	1997	8.625" @ 168', CEMENT W/110sx 5.5" @ 2781, CEMENT W/1050sx	SURFACE SURFACE	2616'-2681'	OIL	ACTIVE
TLSAU #201, UT. O-1-T9S-R28E	1997	8.625" @ 180', CEMENT W/110sx 5.5" @ 2821', CEMENT W/1100sx	SURFACE SURFACE	2626'-2649'	OIL	ACTIVE
TLSAU #202, UT. M-36-T8S-R28E	1997	8.625" @ 187', CEMENT W/110sx 5.5" @ 2750', CEMENT W/1050sx	SURFACE SURFACE	2615'-2626'	OIL	ACTIVE
TLSAU #203, UT. K-6-T9S-R29E	1997	8.625" @ 177', CEMENT W/110sx 5.5" @ 2848', CEMENT W/1100sx	SURFACE SURFACE	2642'-2706'	OIL	ACTIVE

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #31
Well Schematic
C-108-VI



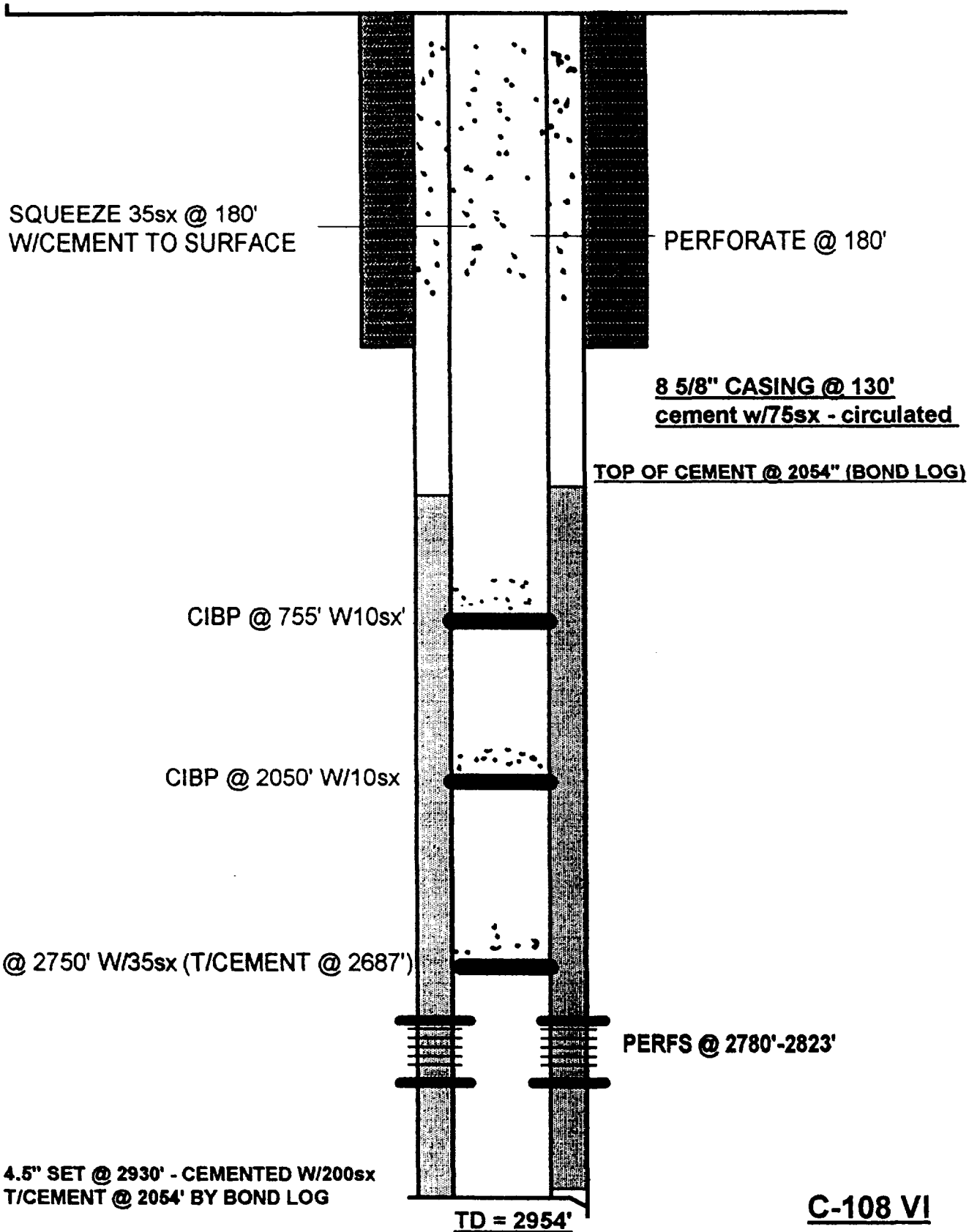
C-108 VI

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #33
Well Schematic
C-108-VI



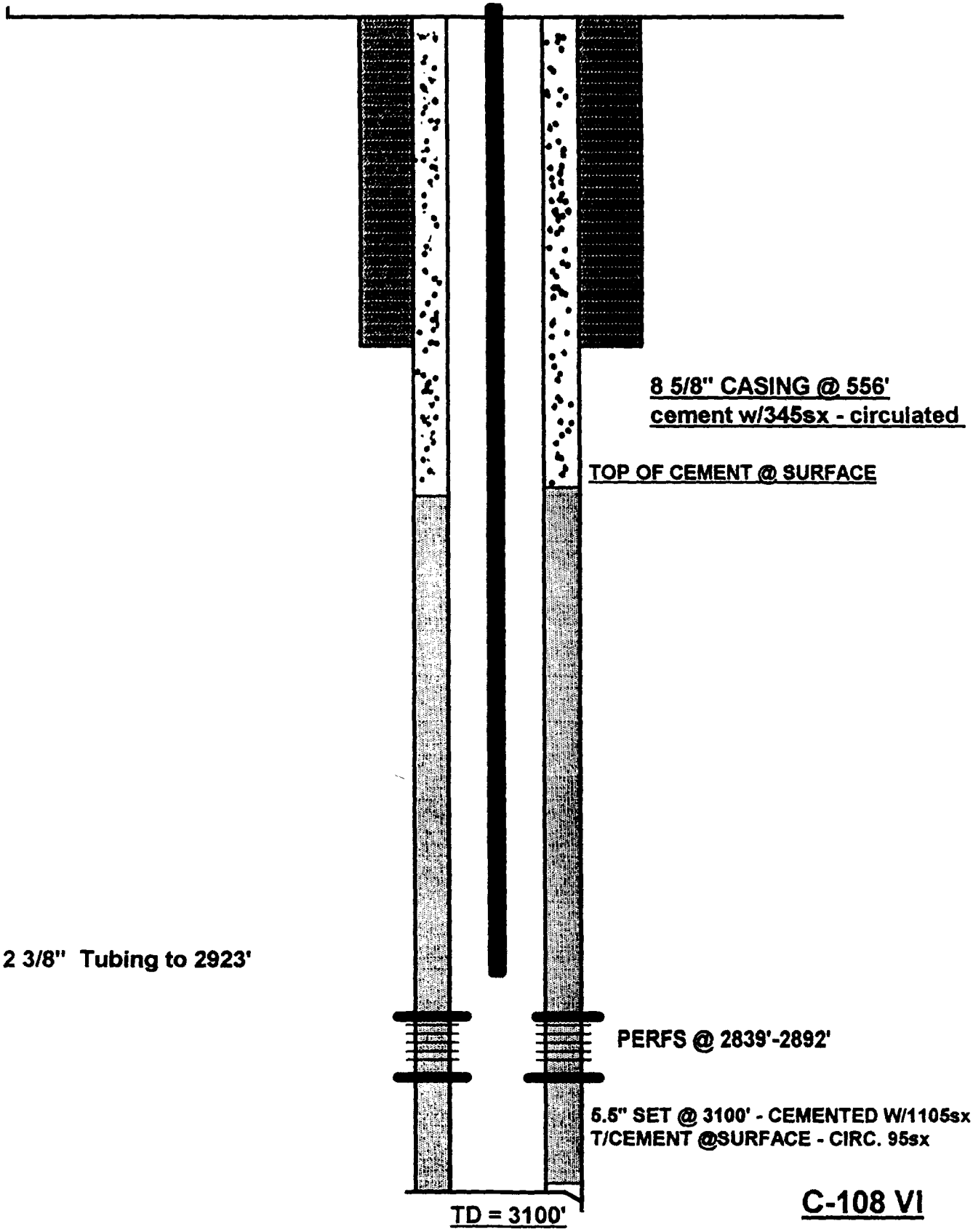
C-108 VI

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #62
Well Schematic
C-108-VI



C-108 VI

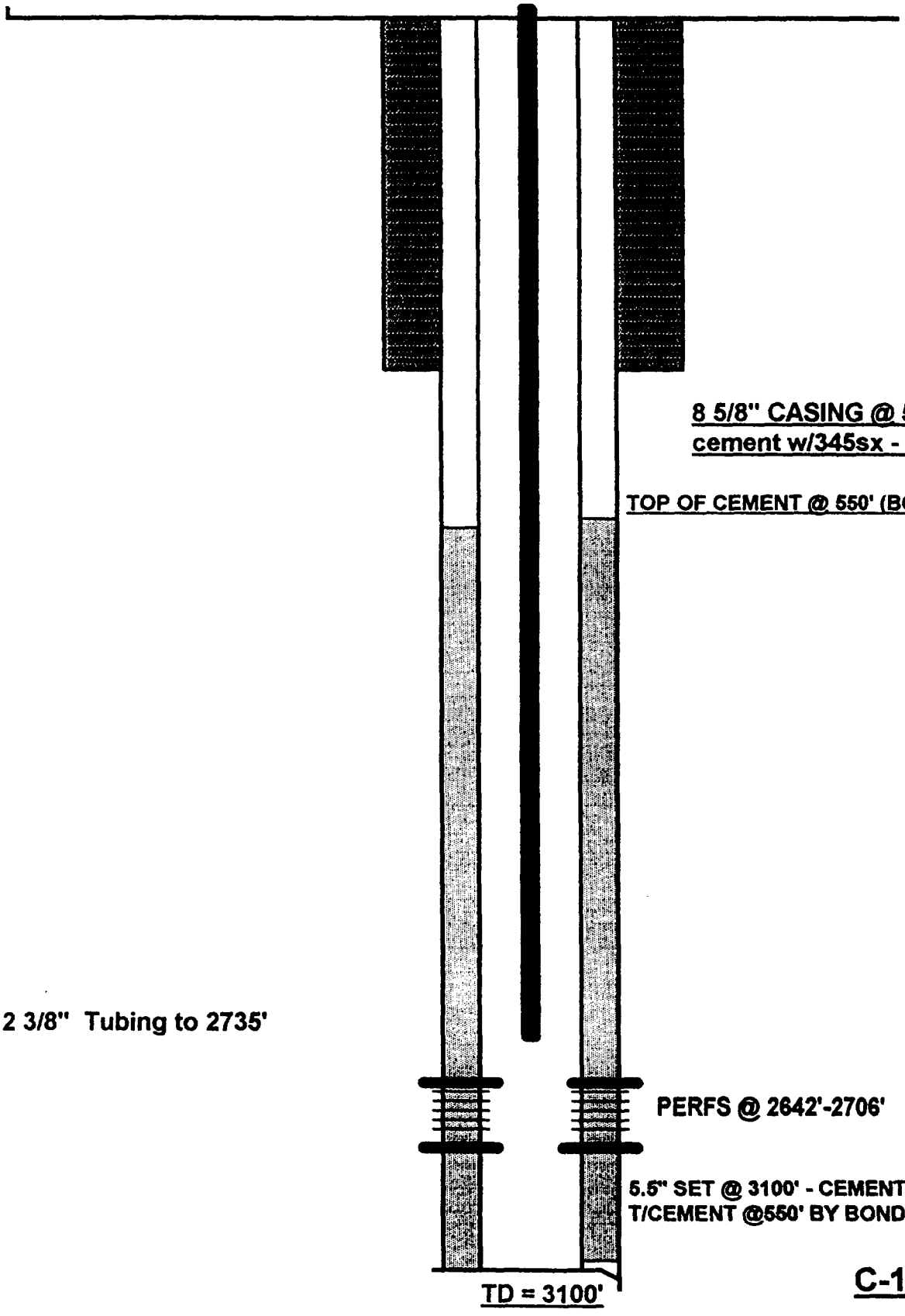
Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #121
Well Schematic
C-108-VI



C-108 VI

5-T9S-R29E 1500 FNL & 1405 FWL F TLSAU #121 TLSAU #121 30-005-62819

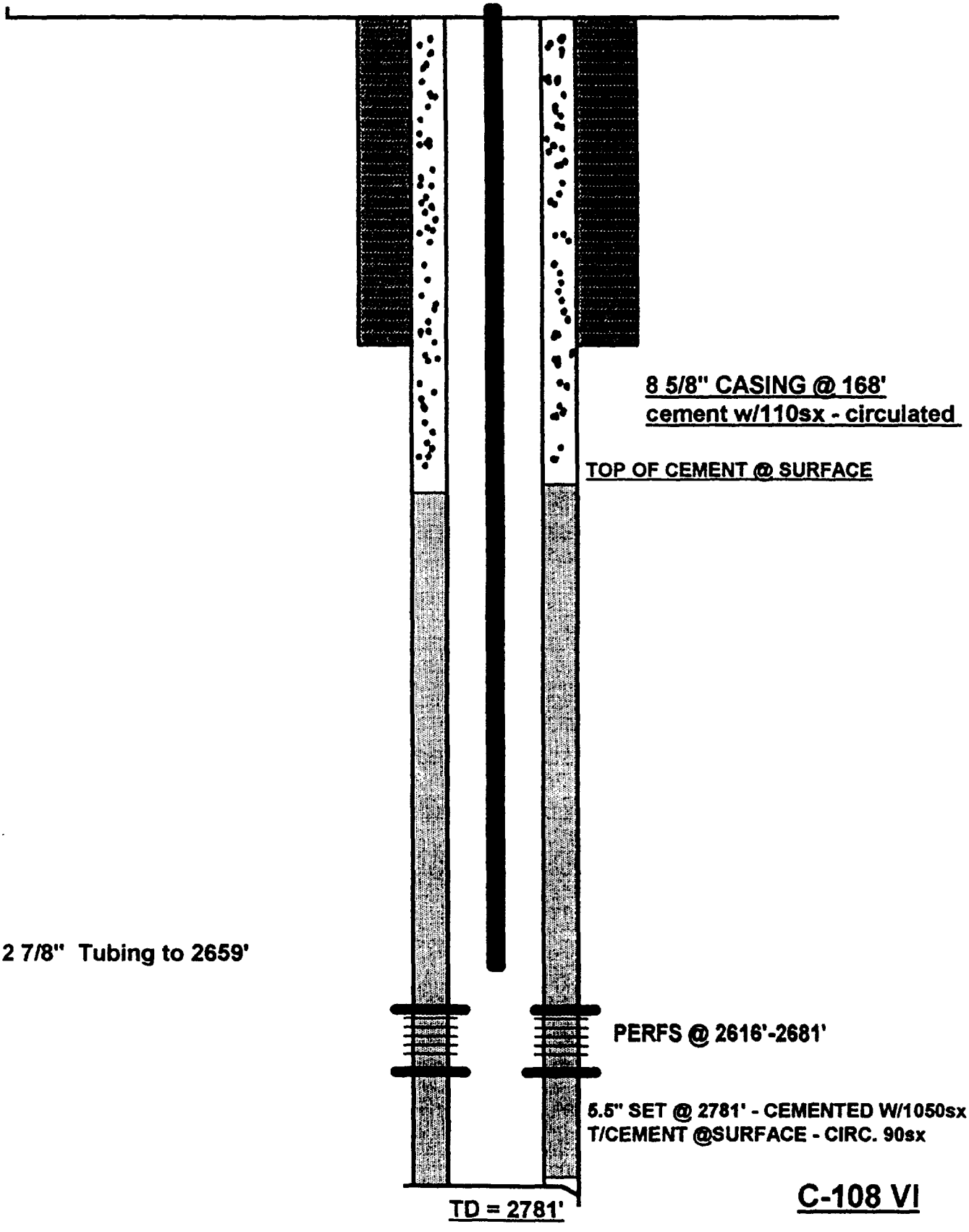
Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #122
Well Schematic
C-108-VI



C-108 VI

36-T8S-R28E, 1400 FNL & 250 FEL H TLSAU #122 TLSAU #122 30-005-62818

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #200
Well Schematic
C-108-VI



C-108 VI

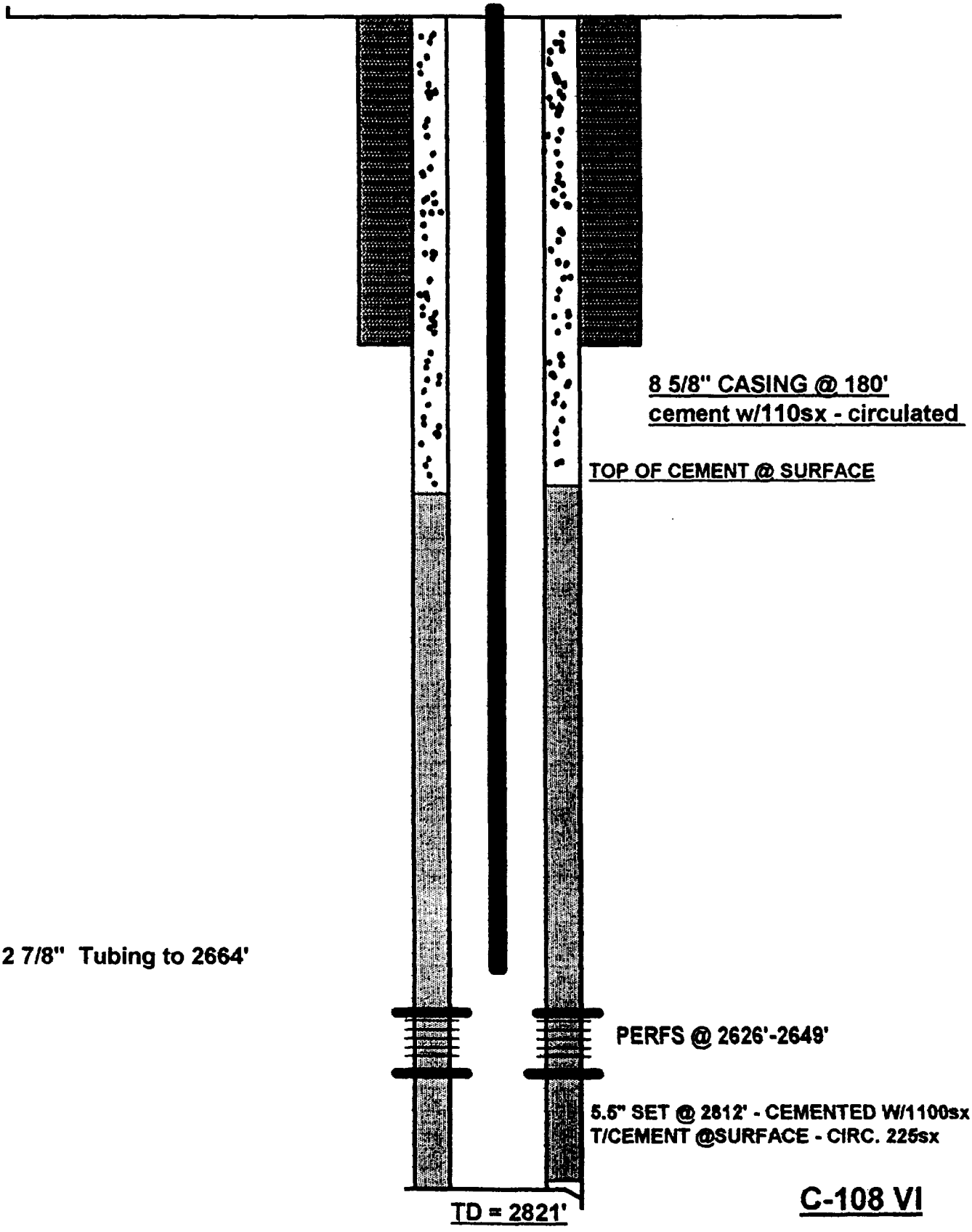
12-T9S-R28E, 2310 FSL & 990 FEL

TLSAU #200

TLSAU #200

30-005-63138

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #201
Well Schematic
C-108-VI



C-108 VI

1-T9S-R28E, 330 FSL & 1650 FEL

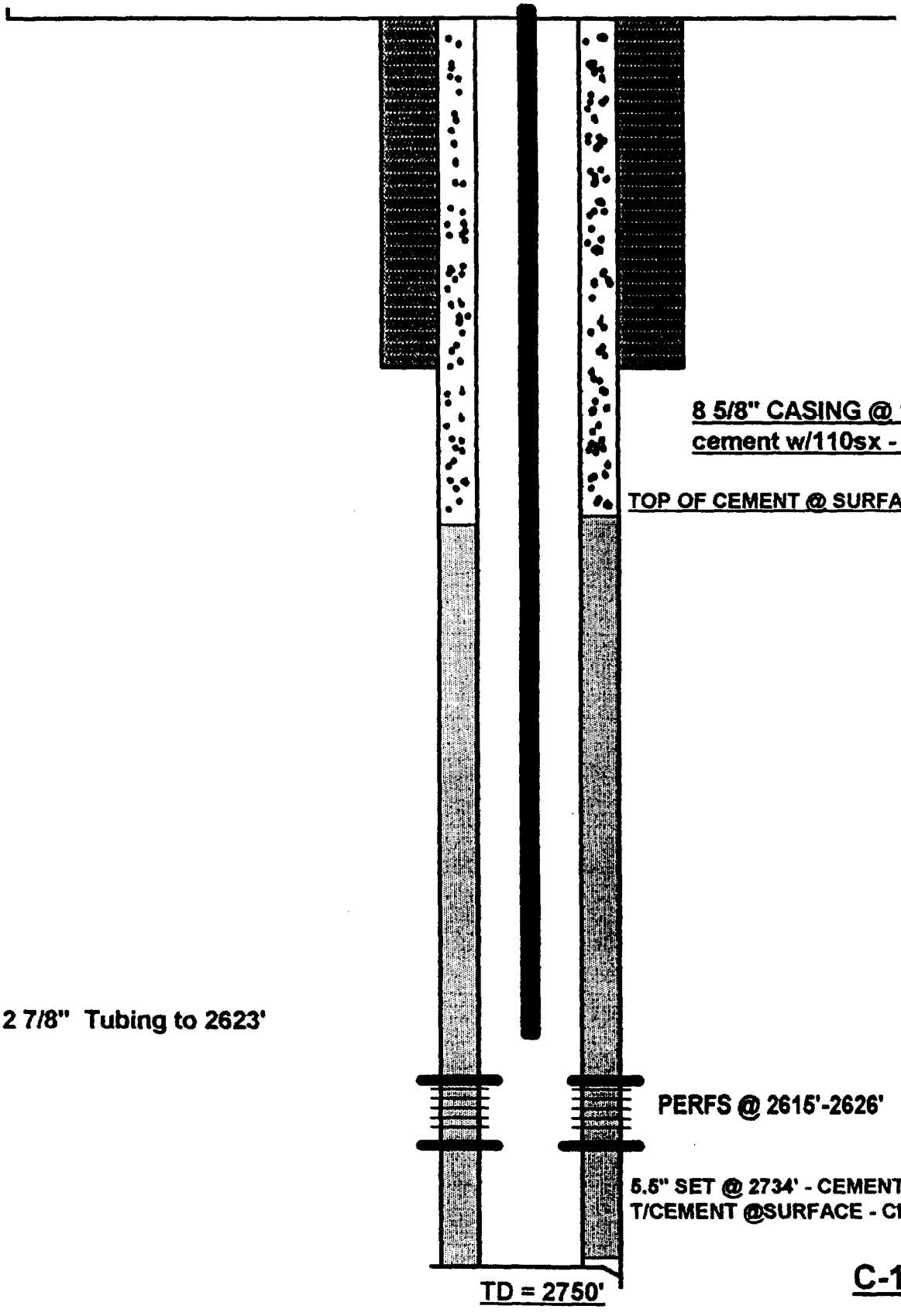
O

TLSAU #201

TLSAU #201

30-005-63139

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #202
Well Schematic
C-108-VI



C-108 VI

36-T8S-R28E, 1300 FSL & 1300 FWL

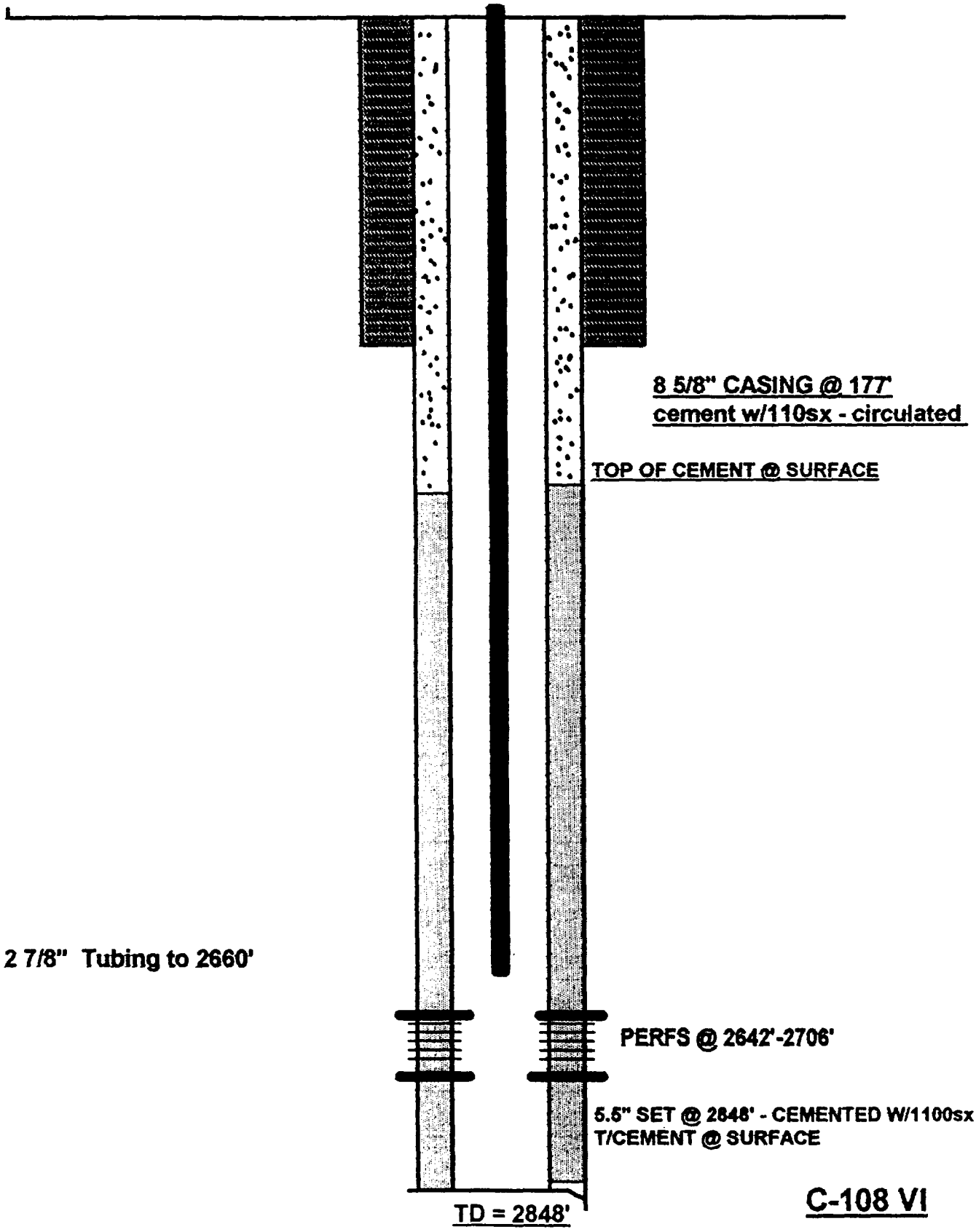
M

TLSAU #202

TLSAU #202

30-005-63147

Hanagan Petroleum Corporation
Twin Lakes San Andres Unit Well #203
Well Schematic
C-108-VI



C-108 VI

6-T9S-R29E. 1650 FSL & 2310 FWL

K

TLSAU #203

TLSAU #203

30-005-63140

02

SENT FOR PUBLICATION IN
FRIDAY JULY 17, 1998 EDITION OF
ROSWELL DAILY RECORD

LEGAL ADVERTISEMENT

Hanagan Petroleum Corporation, Post Office Box 1737, Roswell, NM 88202-1737, (phone 623-5053, contact Mike Hanagan) has filed application with the New Mexico Oil Conservation Division to administratively approve the conversion of the oil wells shown below to water injection wells. All of the wells are located within the existing boundaries of the Twin Lakes San Andres Waterflood Unit and will be injecting water into the San Andres formation with injection pressures not to exceed 0.20 p.s.i per foot of depth.

TLSAU Well	Location	TLSAU Well	Location
#3	25-T8S-R28E	#51	31-T8S-R29E
#5	30-T8S-R29E	#58	6-T9S-R29E
#10	25-T8S-R28E	#60	6-T9S-R29E
#12	25-T8S-R28E	#69	6-T9S-R29E
#14	30-T8S-R29E	#72	6-T9S-R29E
#18	36-T8S-R28E	#77	6-T9S-R29E
#20	31-T8S-R29E	#79	6-T9S-R29E
#22	31-T8S-R29E	#87	6-T9S-R29E
#26	36-T8S-R28E	#89	6-T9S-R29E
#29	36-T8S-R28E	#94	7-T9S-R29E
#36	36-T8S-R28E	#102	7-T9S-R29E
#39	31-T8S-R29E	#106	7-T9S-R29E
#41	31-T8S-R29E	#110	12-T9S-R28E
#42	31-T8S-R29E	#112	7-T9S-R29E
#45	36-T8S-R28E	#117	18-T9S-R29E
#47	36-T8S-R28E	#120	18-T9S-R29E
#49	31-T8S-R29E	#123	31-T8S-R29E

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Sant Fe, NM 87504-2088 within 15 days.