

APPLICATION FOR AUTHORIZATION TO INJECT

WDQSU #12

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

II. Operator: Sirgo-Collier, Inc.Address: P. O. Box 3531, Midland, Texas 79702Contact party: Victor Sirgo-Engineer Phone: (915) 685-0878

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.

IV. Is this an expansion of an existing project? ☒ yes ☐ no
If yes, give the Division order number authorizing the project R-2356

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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 source 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 logs have been filed with the Division they need not be resubmitted.)

* 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.

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 source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

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: Amy L. Whitley Title: AgentSignature: Amy L. Whitley Date: December 9, 1987

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

OPERATOR		LEASE		
Sirgo-Collier, Inc.		West Dollarhide Queen Sand Unit		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
12	1650 FSL 990 FWL	30	24-S	38-E

Schematic

Tabular Data

Surface Casing

Size 9-5/8" " Cemented with 220 sx.TOC Surface feet determined by circulationHole size 13-3/4"

Intermediate Casing

Size 7 " Cemented with 300 sx.TOC 490' feet determined by unknownHole size 8-3/4"

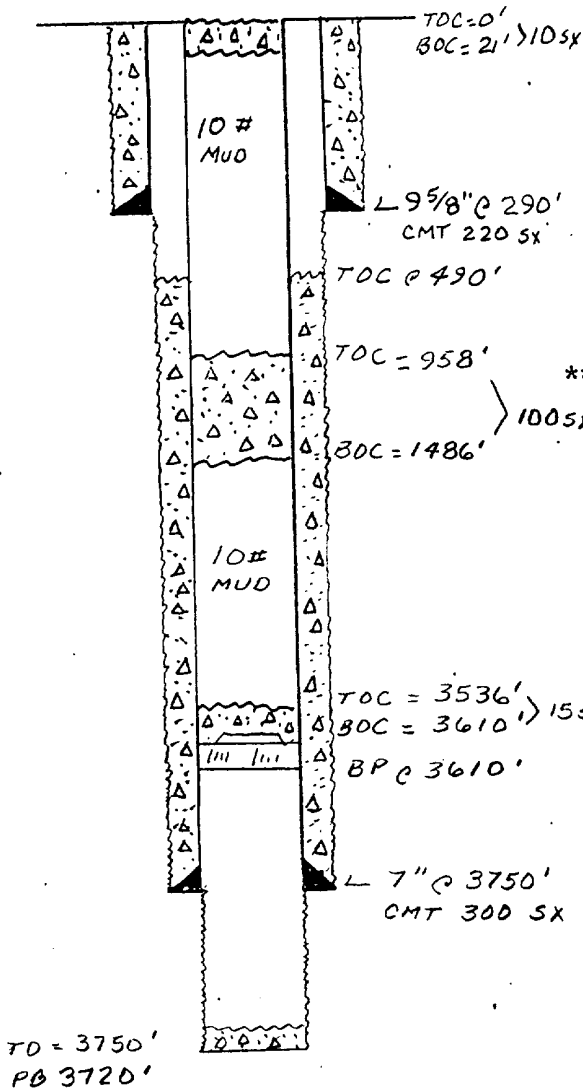
**Long string

Size 4-1/2 " Cemented with 400 sx.TOC Surface feet determined by circulationHole size 6-1/8"Total depth 3997'

Injection interval

3637 feet to 3817 feet
(perforated or ~~packed~~, indicate which)

** New casing that will be run when well is deepened.

TO = 3750'
PB 3720'Tubing size 2-3/8" lined with plastic set in a
(material)Baker AD-1 packer at 3550' feet
(brand and model)

(or describe any other casing-tubing seal).

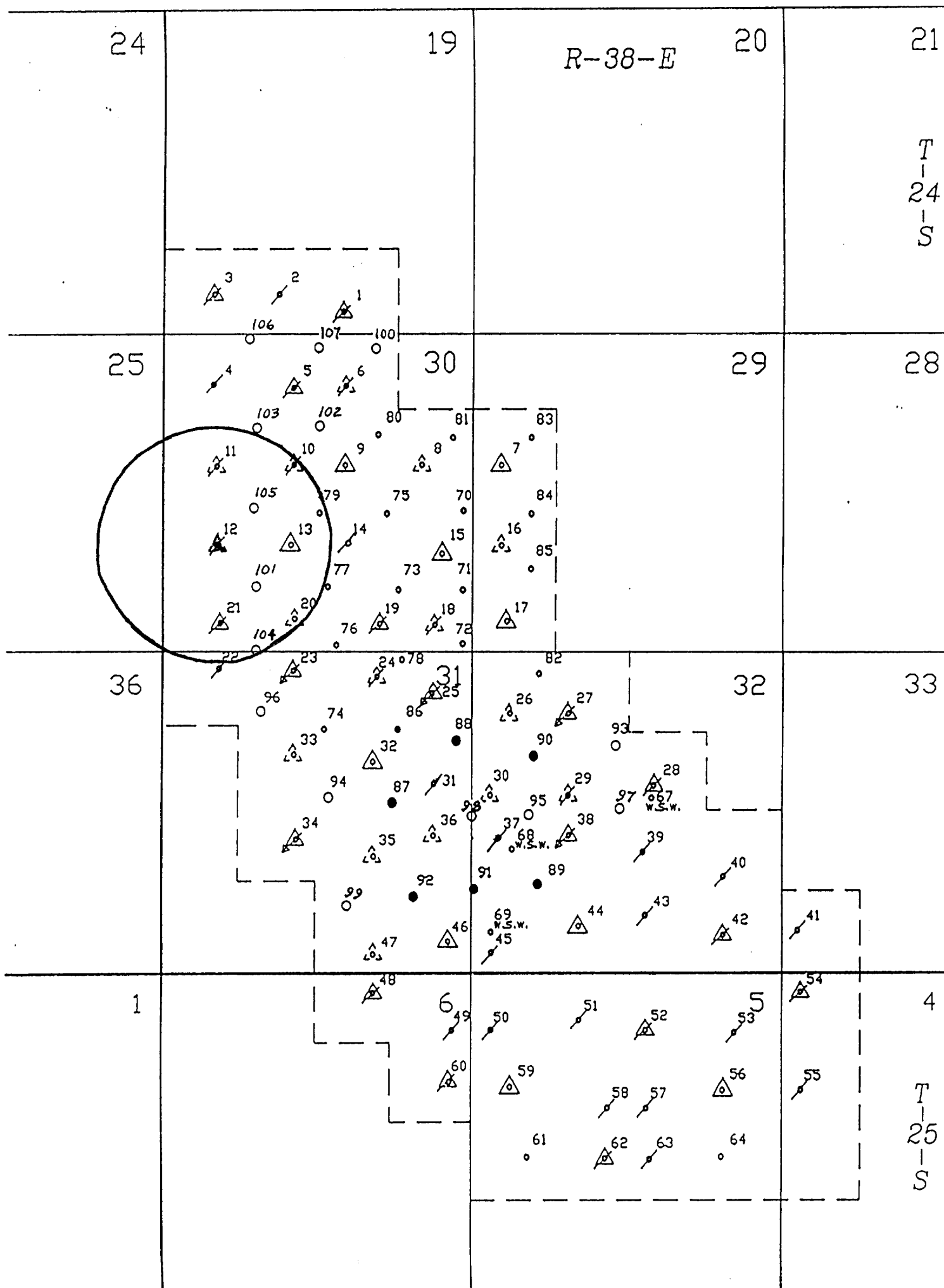
Other Data

- Name of the injection formation Queen
- Name of Field or Pool (if applicable) Dollarhide Queen
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Producer
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Drinkard @ 6580', Devonian @ 7500', Fusselman @ 8610', Ellenburger @ 10,180'

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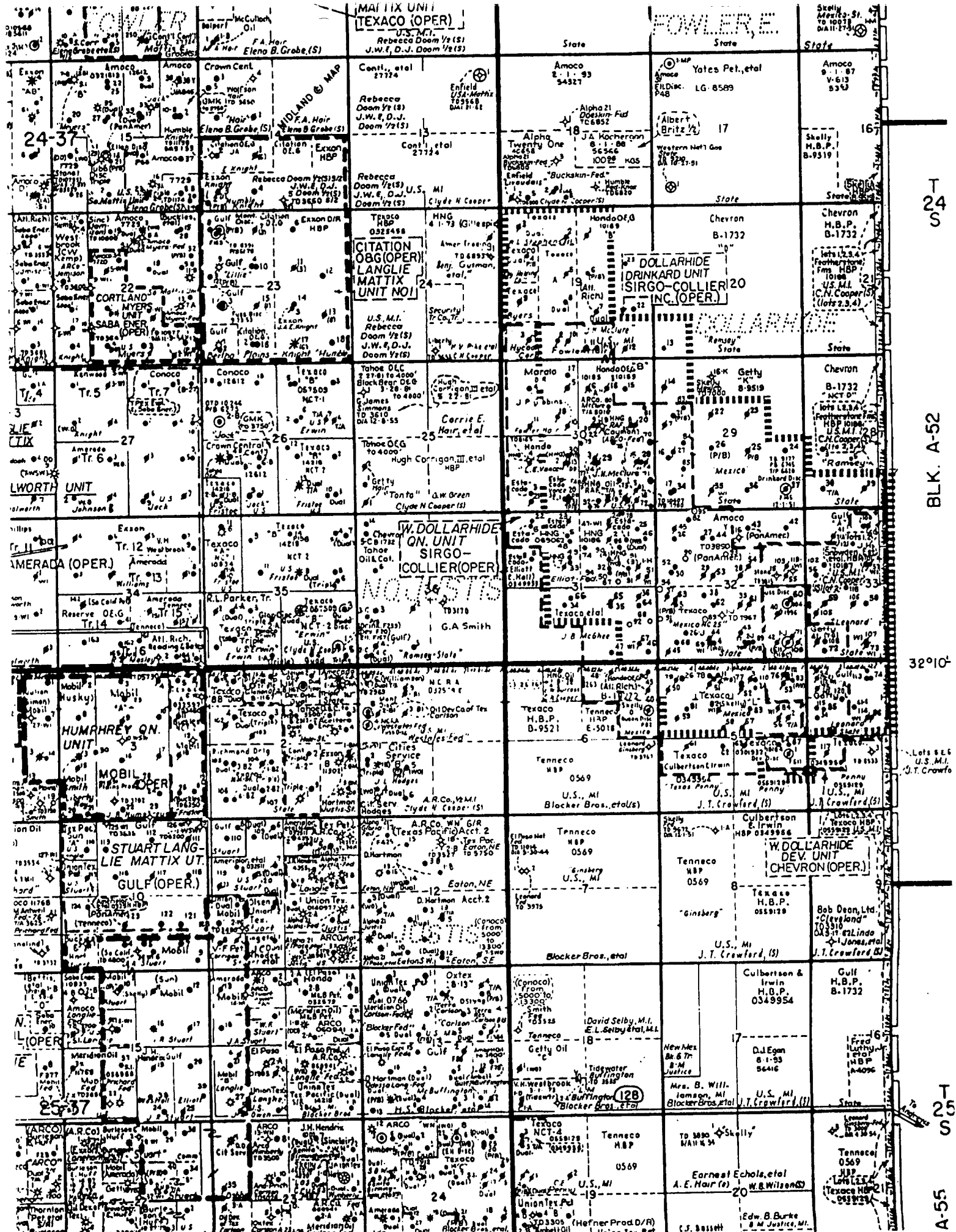
Scale 1 Mile

MAP LEGEND

- Producer
- Location
- △ Injector
- △ Abandoned Injector
- △ Proposed Injector
- △ Active Injector
- ✂ Abandoned Producer

T. SCOTT HICKMAN & ASSOCIATES, INC.

WEST DOLLARHIDE QUEEN SAND UNIT
Lea County, New Mexico



T
24
S

BLK. A-52

32°10'

U.S. M.I.
J.T. Crawford

T
25
S

A-55

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WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 9

Type Well: Producer, converted to WIW on Feb. 7, 1964.

Construction: 10-3/4" csg at 294', cmt 225 sx, circ to surface, 7" csg at 3629', cmt 2950 sx, cmt top at 1040' by temperature survey. Sirgo-Collier, Inc. plans to deepen and set 4-1/2" csg cemented to surface by April 1988.

Date Drilled: 10-18-54

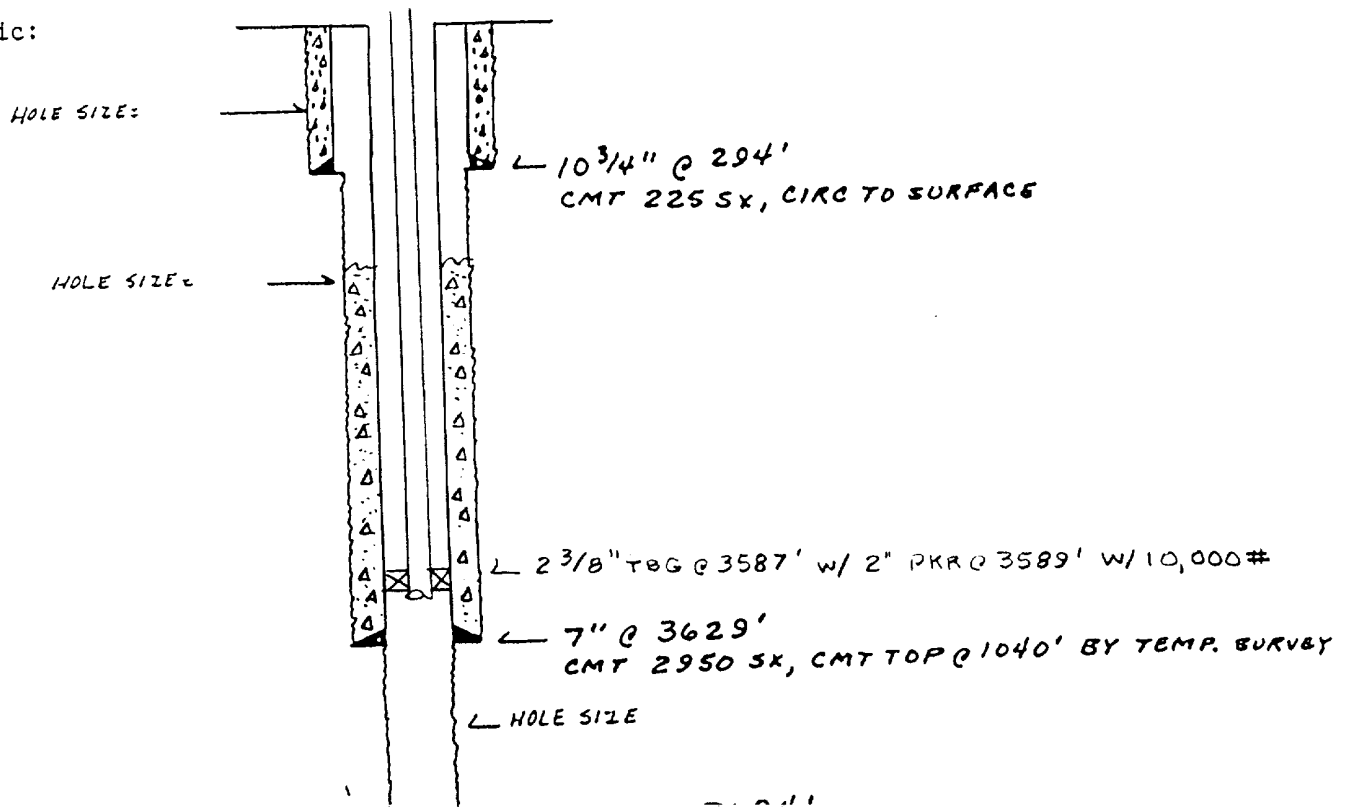
Location: 2310' FNL 2310' FEL, Sec. 30, T24S, R38E

Depth: 3694'

Completion Record: Sand-Oil Frac 3629-3694', no perforations, open hole producer and injector.
2-3/8" tubing set at 3587', 7" x 2" Halliburton Tension Type Packer set at 3589' with 10,000#.

Plugging and Abandonment Date (if applicable): N/A

Schematic:



WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 10

Type Well: Producer

Construction: 8-5/8" csg at 1194', cmt 425 sx, circ to surface, 5-1/2" csg at 3798' cmt 210 sx, circ to surface. Sirgo-Collier, Inc. plans to set 4-1/2" csg cemented to surface by April 1988.

Date Drilled: 6-10-54

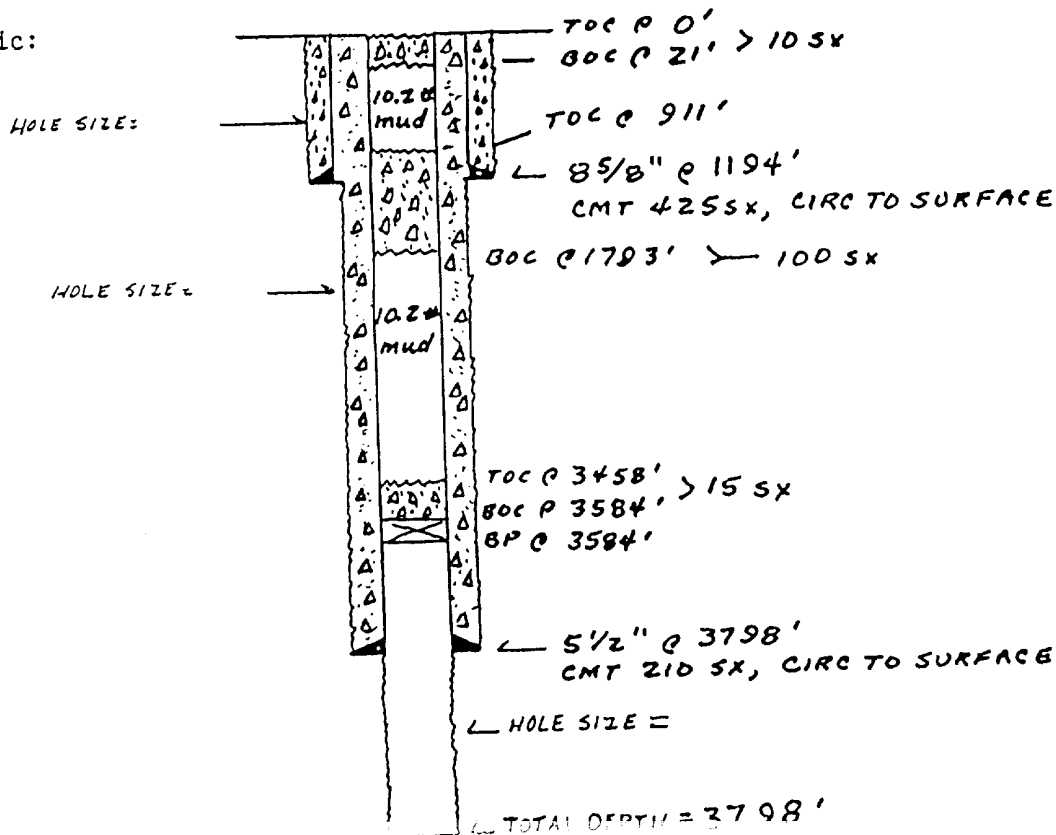
Location: 2310' FNL 2310' FWL, Sec. 30, T24S, R38E

Depth: 3798' PB 3707'

Completion Record: Perforated 3678-3702' & 3737-3751' and Sand-Oil Frac same zone. Perforated 3646-3793', 34 shots, and acidized. (9-20-68) Open hole producer.

Plugging and Abandonment Date (if applicable): 3-30-73

Schematic:



WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 11

Type Well: Producer, convert to WIW 8-19-69

Construction: 8-5/8" 32# @ 1170', cmt 395 sx, circ to surface
 5-1/2" 15.5# @ 3742', cmt 263 sx, top unknown.
 Sirgo-Collier, Inc. plans to deepen and run 4-1/2" casing to TD and cement to surface by April 1, 1988.

Date Drilled: 10-10-54

Location: 2310 FNL 990 FWL, Sec. 30, T24S, R38E, Lea County, NM

Depth: 3743' PB3739'

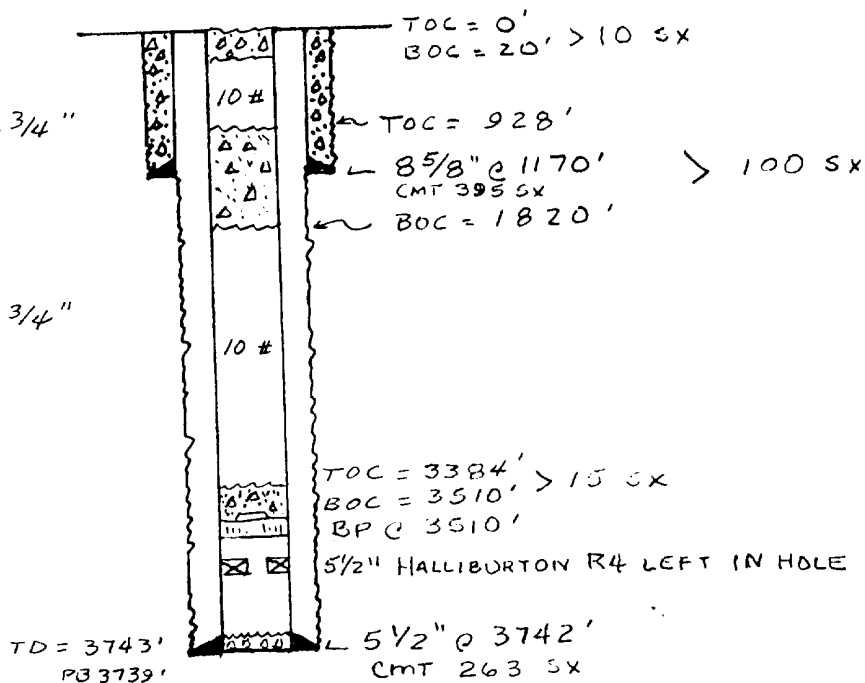
Completion Record: Perf 3686-3725', 6 shots/ft., sand-oil frac (two treatments)
 Tubing pulled, packer left in hole (5-1/2" Halliburton R4) 3559'

Plugging and Abandonment Date (if applicable): 3-31-73

Schematic

Hole size = 10 3/4"

Hole size = 6 3/4"



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WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 13

Type Well: Producer, convert to WIW on Feb. 6, 1964.

Construction: 9-5/8" csg at 291', cmt 275 sx, circ to surface, 7" csg at 3675', cmt 880 sx, cmt top at 1010' by temperature survey. Sirgo-Collier, Inc. plans to deepen and set 4-1/2" csg, cemented to surface by April 1988.

Date Drilled: 11-20-53

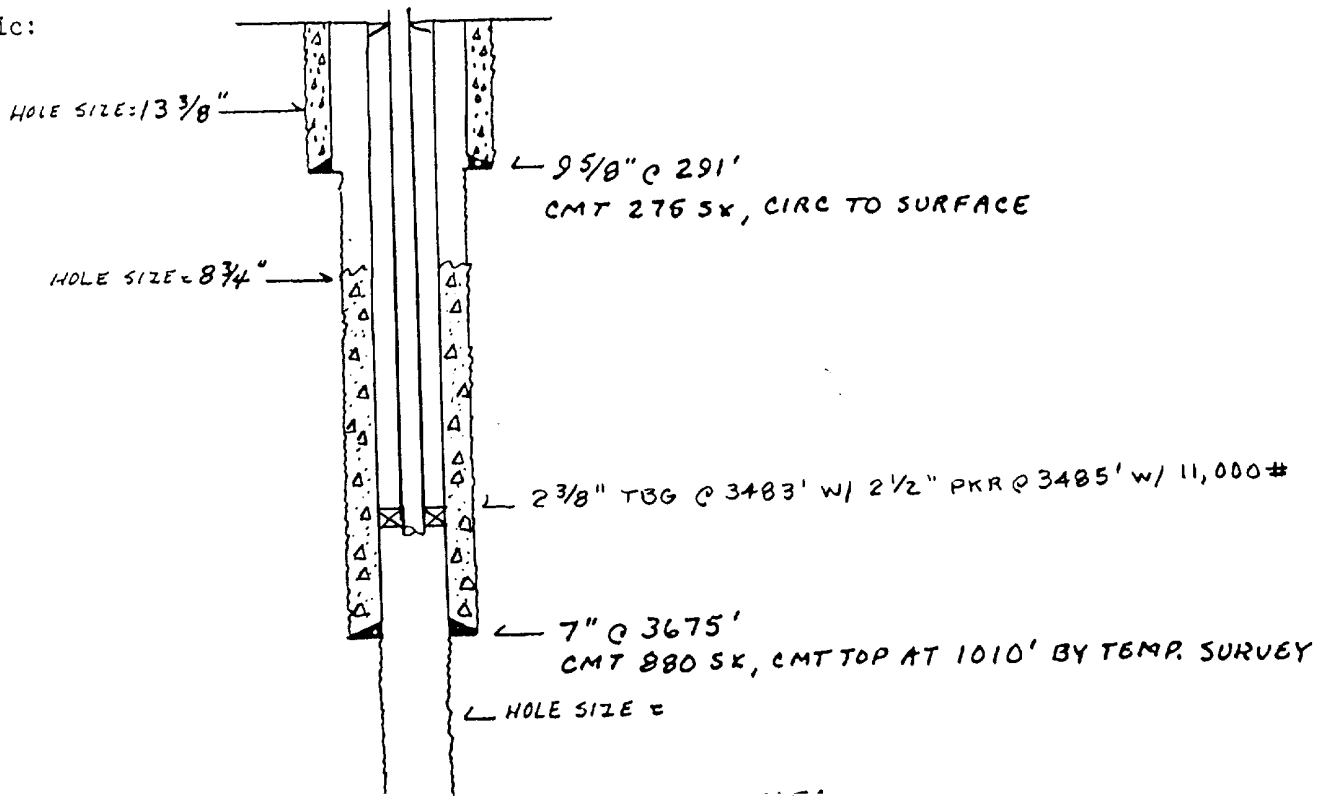
Location: 990' FNL 330' FEL, Sec. 30, T24S, R38E

Depth: 3715'

Completion Record: Sand-Oil Frac 3675-3715', no perforations, open hole producer and injector
2-3/8" tubing set at 3483', 7" x 2-1/2" Halliburton R-3 Tension Type Packer set at 3485' with 11,000#.

Plugging and Abandonment Date (if applicable): N/A

Schematic:



WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 14

Type Well: Producer

Construction: 9-5/8" csg at 309', cmt 300 sx, circ to surface, 7" csg at 3680', cmt 1700 sx, no data on cement top.

Date Drilled: 2-10-54

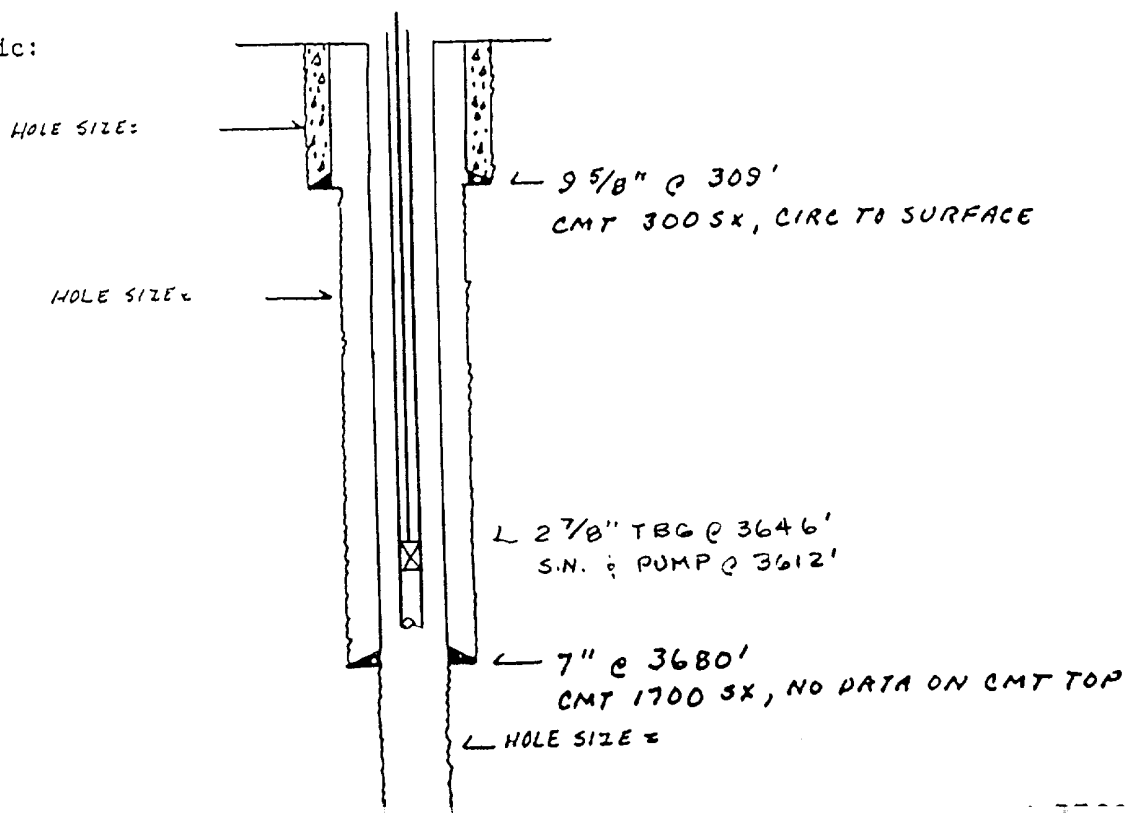
Location: 1650' FSL 2140' FEL, Sec. 30, T24S, R38E

Depth: 3710' , Deepen to 3780'

Completion Record: Sand-Oil Frac 3674-3710', no perforations.
 Deepen to 3780', perforate 3606-3674' and acidize.
 Open hole producer.
 2-7/8" tubing set at 3646', seating nipple and pump set at 3612'

Plugging and Abandonment Date (if applicable):

Schematic:



WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 20

Type Well: Water Injection Well

Construction: 9-5/8" 36# @ 305', cmt 280 sx, circ to surface
 7" 17# @ 3650', cmt 975 sx, circ to surface
 4-1/2" 10.5# @ 3978', cmt 535 sx, circ 0 sx, unset slips on 4-1/2" ran 1" tubing to TOC @ 288', cmt 85 sx, circ to surface, pull tubing, re-set slips.

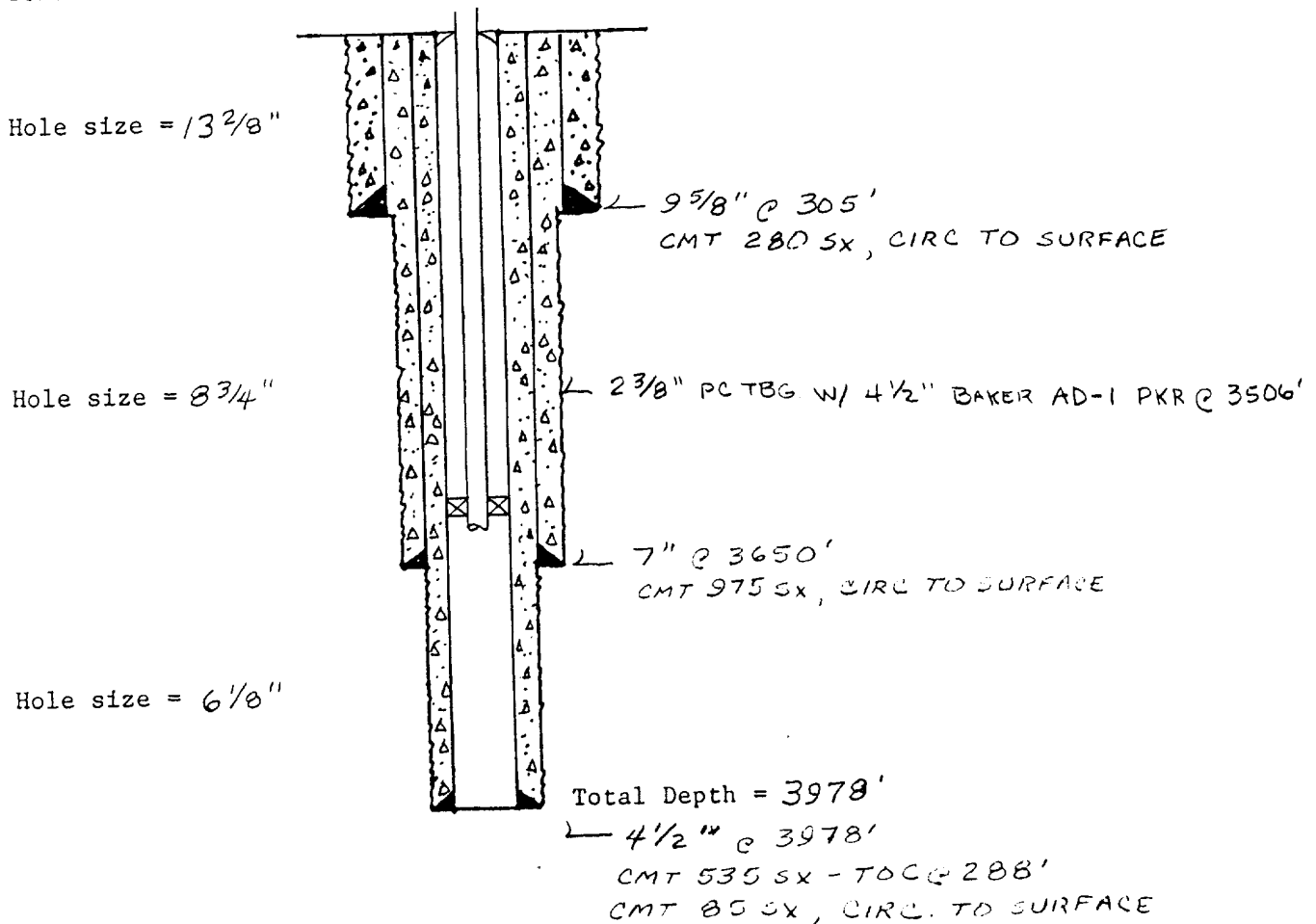
Date Drilled: Re-enter 11-13-87

Location: 467 FSL 2310 FWL, Sec. 30, T24S, R38E, Lea County, NM

Depth: 3978'

Completion Record: Ran 4-1/2" Baker Model AD-1 packer on 2-3/8" PC tubing and set at 3506'

Schematic:



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WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 21

Type Well: P & A Injector

Construction: 9-5/8" @ 312', cmt 300 sx, circ to surface
7" @ 3671', cmt 880 sx, top @ 720'

Date Drilled: 12-7-53

Location: 330' FSL 990' FWL, Sec. 30, T24S, R38E

Depth: 3732'

Completion Record: No perfs
Tubing and packer pulled.

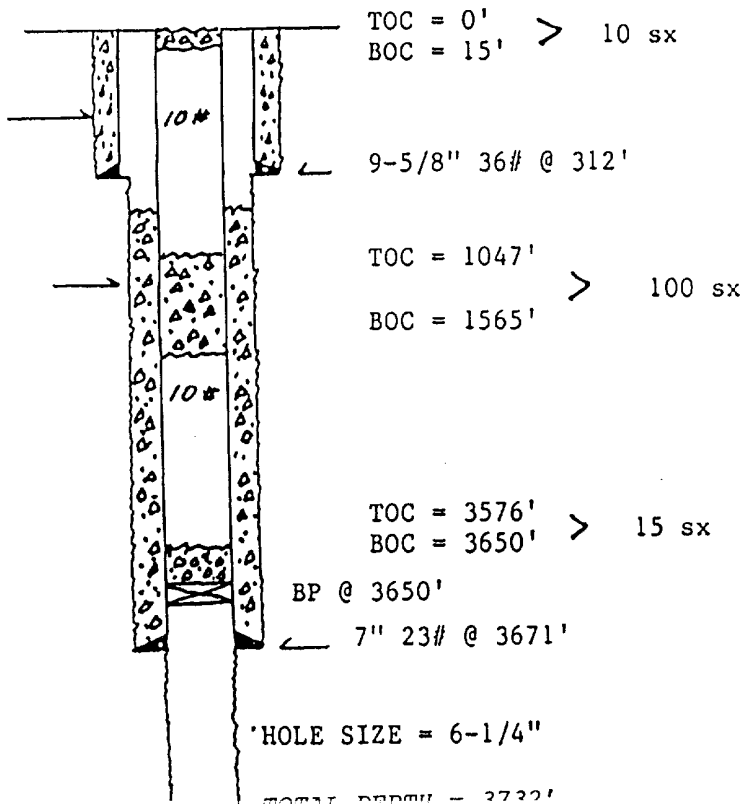
Plugging and Abandonment Date (if applicable): 5-31-73

Schematic:

HOLE SIZE = 13-3/8"

HOLE SIZE = 8-3/4"

HOLE SIZE = 6-1/4"



WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 22

Type Well: Producer

Construction: 8-5/8" @ 215', cmt 150 sx, circ. to surface
5-1/2" @ 3680', cmt 650 sx, top at 1630'

Date Drilled: 3-13-54

Location: 330' FNL 990' FWL, Sec. 31, T24S, R38E

Depth: 3727'

Completion Record: 119 jts. 2-3/8" 4.7# @ 3695'

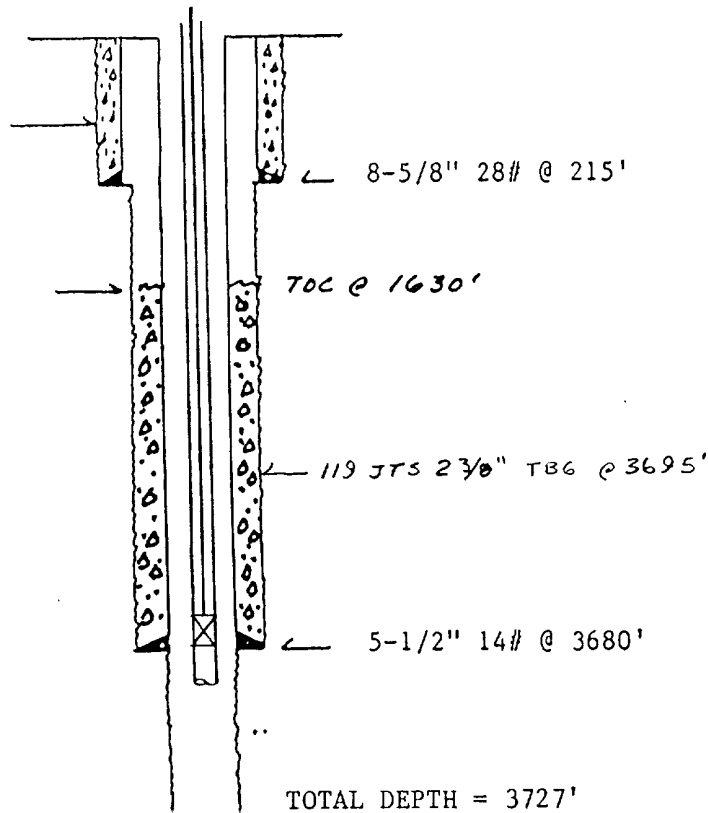
Plugging and Abandonment Date (if applicable):

Schematic:

HOLE SIZE =

HOLE SIZE =

HOLE SIZE =



WEST DOLLARHIDE QUEEN SAND UNIT

DATA TABULATION SHEET

Well Number: 23

Type Well: Producer, convert to WIW on 2-4-64

Construction: 8-5/8" @ 211', number of sacks unknown.
5-1/2" @ 3656', cmt 650 sx, top at 1875'

Date Drilled: 6-13-53

Location: 330' FNL 2310' FWL, Sec. 31, T24S, R38E

Depth: 3747'

Completion Record: 2-3/8" OD 4.7# EUE J55 8rd R2 TK-50 plastic coated tubing with
5-1/2" Howco R3 packer at 3567', 10,000# tension.

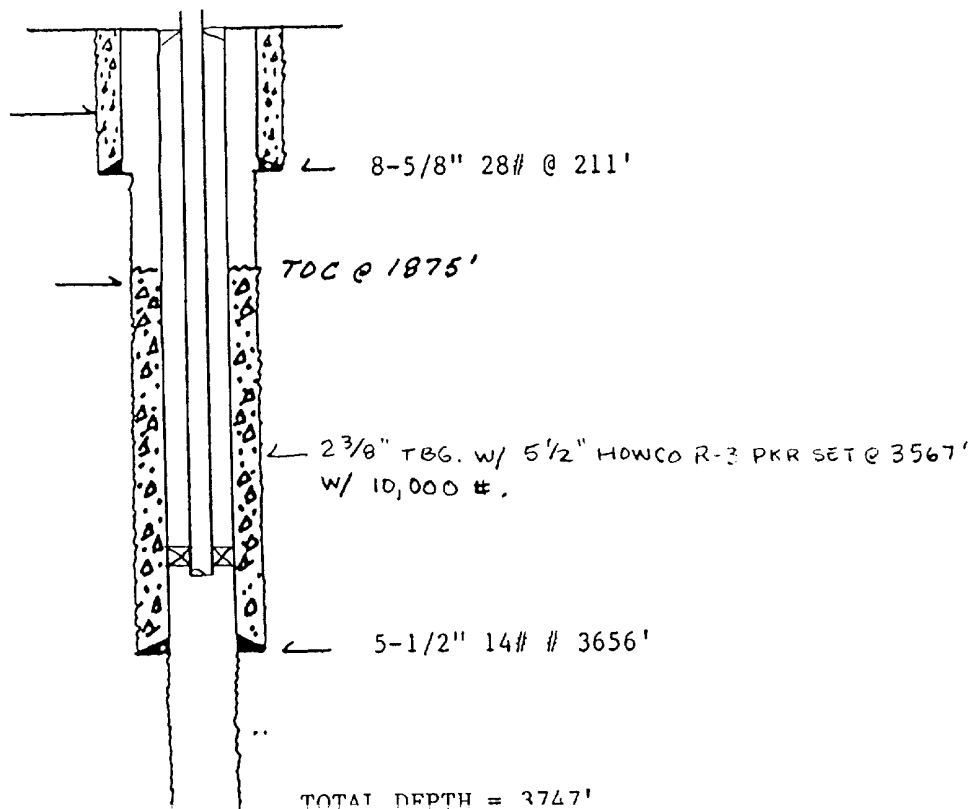
Plugging and Abandonment Date (if applicable):

Schematic:

HOLE SIZE =

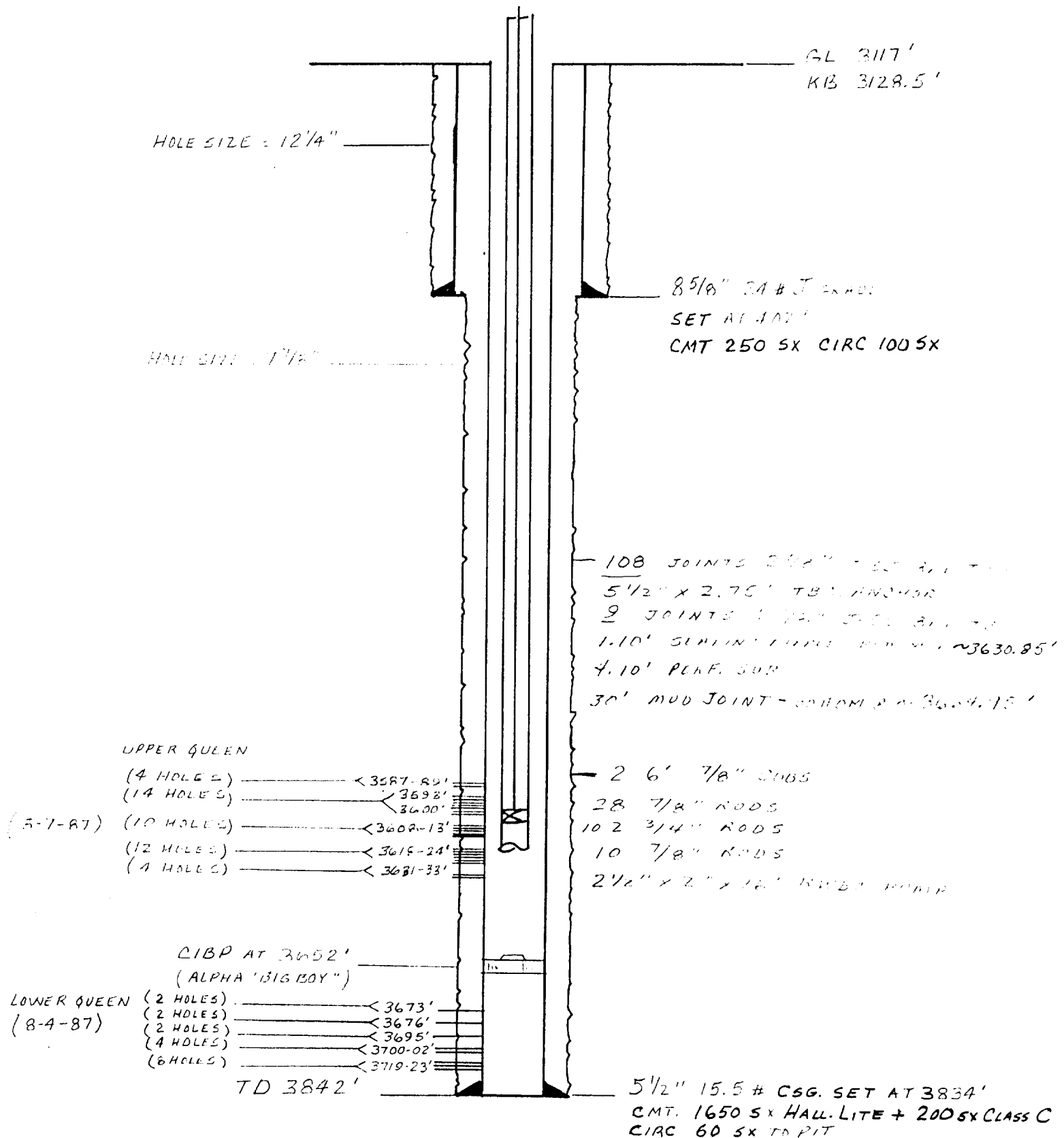
HOLE SIZE =

HOLE SIZE =



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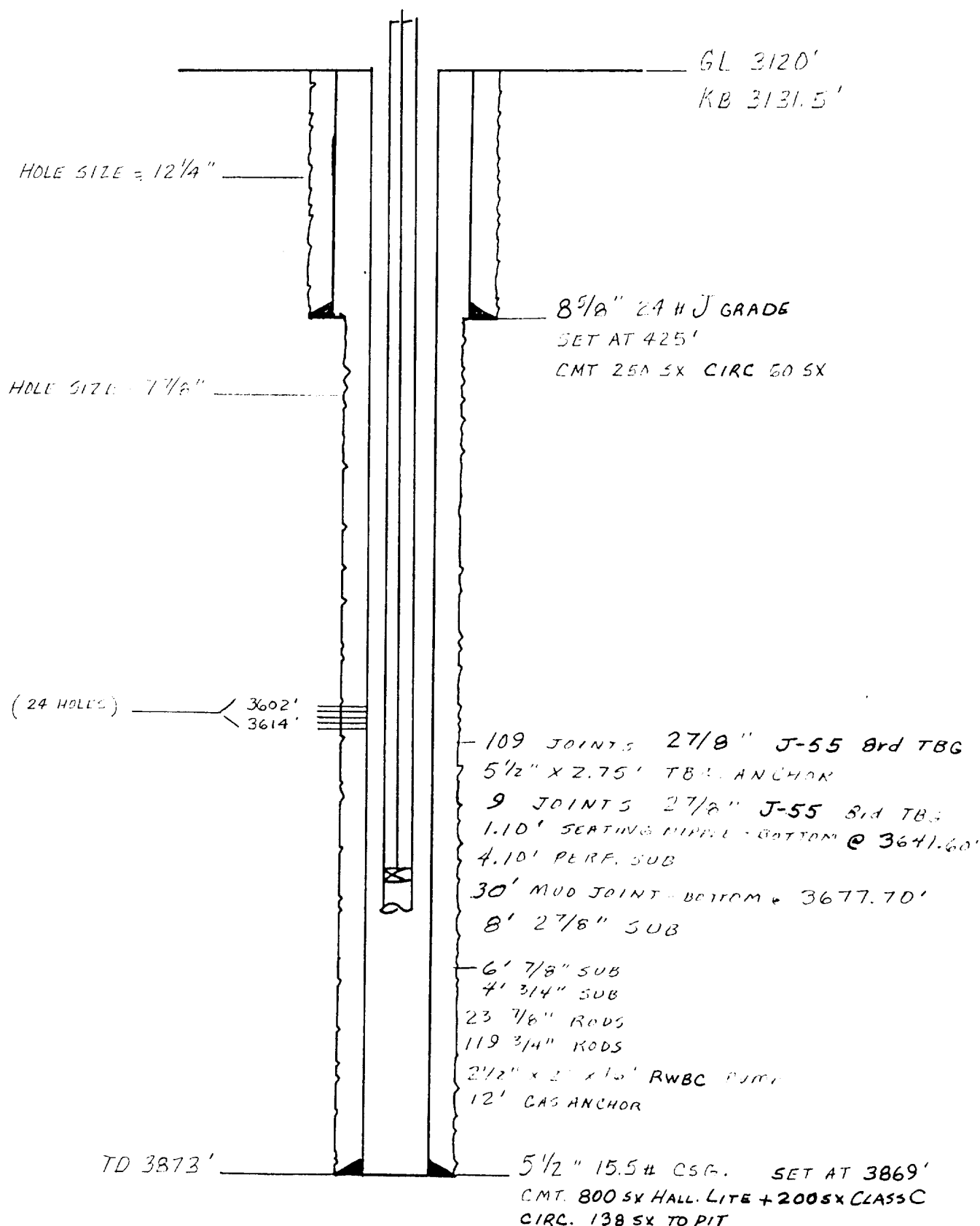
LEASE NAME AND WELL NO. WDQSU # 30-76
WELLBORE DIAGRAM AS OF (DATE): 8-13-81



LEASE NAME AND WELL NO.: WDQ50 # 30-76
STATE: N.M. COUNTY: LEA BLOCK: — SECTION: 30
TOWNSHIP: 24-S RANGE: 38-E LEGAL DESCRIPTION: 125' FSL 2300' FEL
OPERATOR: SIRCO-COLLIER INC WORKING INTEREST: _____ ROYALTY INTEREST: _____
TOTAL DEPTH: 3842' PBTD: — GROUND LEVEL: 3117' KB: 3128.5'
COMPLETION: 8-4-87 OIL IN CURRENT STATUS: PRODUCING
REMARKS: 8-8-87

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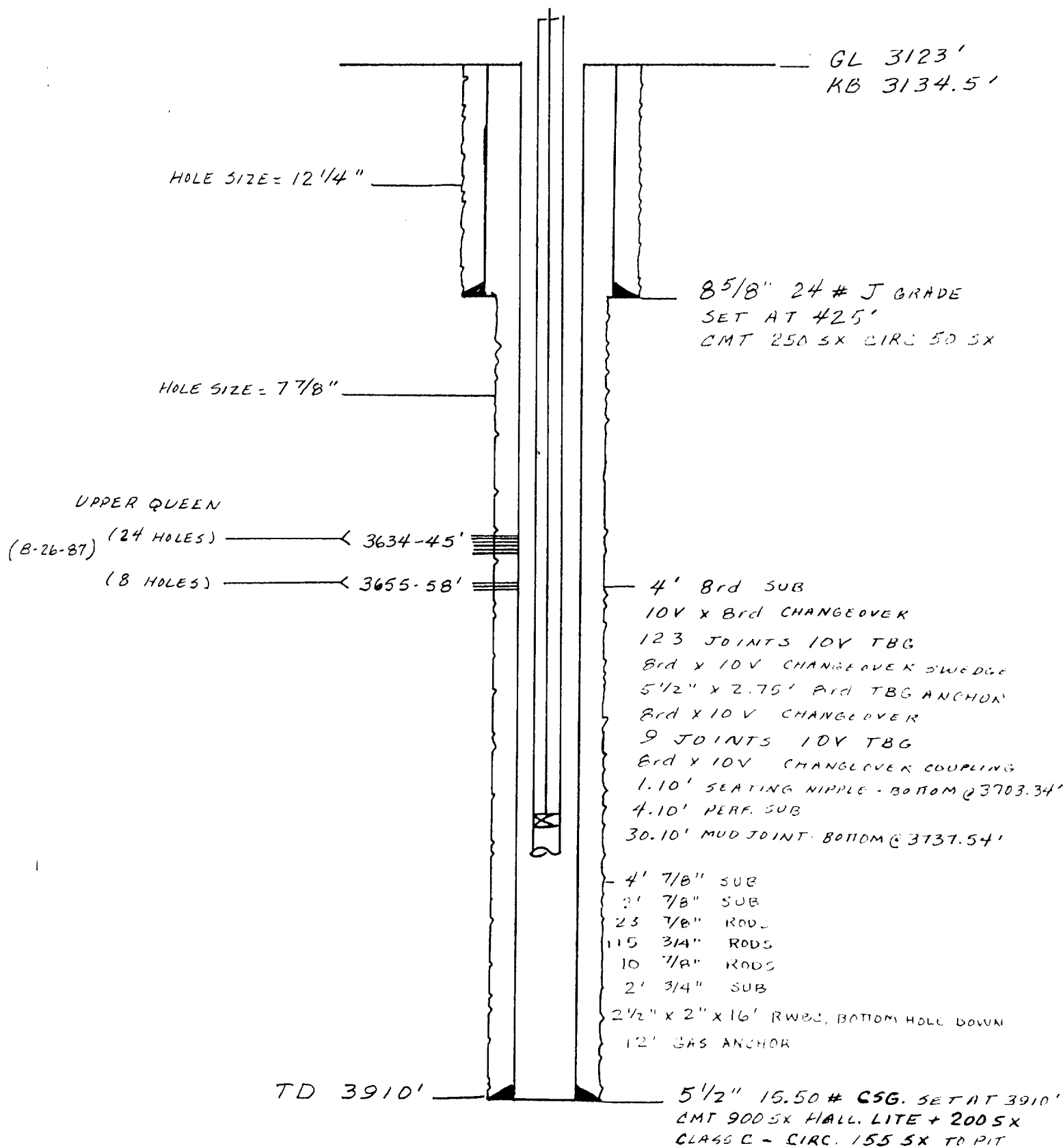
LEASE NAME AND WELL NO. WDQSU # 30-77
WELLBORE DIAGRAM AS OF (DATE): _____



LEASE NAME AND WELL NO.: WDQSU # 30-77
STATE: N.M. COUNTY: LEA BLOCK: — SECTION: 30
TOWNSHIP: 24-5 RANGE: 38-E LEGAL DESCRIPTION: 1100' FSL 2400' FFL
OPERATOR: SIRGO-COLLIER, INC. WORKING INTEREST: _____ ROYALTY INTEREST: _____
TOTAL DEPTH: 3873' PBTD: — GROUND LEVEL: 3120' KB: 3131.5'
COMPLETION: 8-13-87 QUEEN CURRENT STATUS: PRODUCING
REMARKS: _____

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LEASE NAME AND WELL NO.: WDO5U # 30-79
WELLBORE DIAGRAM AS OF (DATE): 9-16-87



LEASE NAME AND WELL NO.: WDO5U # 30-79
STATE: N.M COUNTY: LEA BLOCK: — SECTION: 30
TOWNSHIP: 24-S RANGE: 38-E LEGAL DESCRIPTION: 2310' FSL 2600' FEL
OPERATOR: SIRGO-COLLIER, INC. WORKING INTEREST: — ROYALTY INTEREST: —
TOTAL DEPTH: 3910' PBTD: — GROUND LEVEL: 3123' KB: 3134.5'
COMPLETION: 8-27-87 CURRENT STATUS: Producing
REMARKS: —

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VII.

1. Average rate and volume of fluids: 300 bbls
Maximum rate and volume of fluids: 500 bbls
2. Closed system.
3. Proposed average injection pressure: 1000#
Proposed maximum injection pressure: 1500#
4. Source of injection water is unknown at this time, although some of the total amount injected will be produced water.
5. Injection is not for disposal.

VIII.

The Queen formation is light tan and light gray dolomite interspersed with light gray, fine grained, friable sand. This formation is encountered at a depth of approximately 3580' and is on the average about 200' thick. The only source of drinking water in the area is in Triassic age formations, with the bottom of the zone being at 350'. No known sources underly the injection interval.

IX.

The Queen formation will be selectively perforated, then acidized with 2000 gals. 15% NEFE.

X.

Well logs have been filed with the Division.

XI.

There are no fresh water wells within one mile of this injection well.

XII.

This injection well is not a disposal well.

XIII.

Proof of notice attached.

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Sirgo-Collier, Inc.

P. O. Box 3531, Midland, Texas 79702 (915) 685-0878

December 10, 1987

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87504-2088

Re: Form C-108, Item XII

I, the undersigned, 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 source of drinking water.

M. A. Sirgo III, Engineer
Sirgo-Collier, Inc.

MAS:aw

cc: OCD - Hobbs
Jerry Sexton

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