



P.O. Box 338
Ignacio, Colorado 81137
(970) 563-4000
FAX (970) 563-4116

August 21, 2002

State of New Mexico
Oil Conservation Division
Attn: David Catanach
1220 South St. Francis Drive
Santa Fe, NM 87505



Re: Bisti No. 2
API No. 30-045-25784
740' FSL; 1860' FEL
Section 23-T25N-R11W
San Juan County, NM

Mr. Catanach:

The above captioned well was purchased by Maralex Resources, Inc., effective August 1, 2002 with the intention of converting the well to a produced water disposal well. The previous operator was Pro NM Energy, Inc. Subsequently, the operator of the well was then transferred to Maralex Disposal, LLC effective 08/14/02. In addition, the well name was changed from the Bisti No. 2 to the Trading Post Disposal No. 2. The appropriate forms are being sent to the NMOCD, Aztec District Office, for approval of these changes. Additionally, the BLM will be sent the appropriate BLM forms to notify them of the same.

Because the turn-around time for approval of the above-mentioned changes can sometimes be somewhat lengthy, we felt it necessary to proceed in mailing the produced water disposal application (C-108) to you in advance. The application is sent to you with Maralex Disposal, LLC as the operator and the well is referenced as the Trading Post Disposal No. 2

Should you have any questions, or require additional information, please feel free to contact Dennis Reimers or myself at 970/563-4000.
Thank you.

Sincerely,

Maralex Resources, Inc/ Maralex Disposal LLC

Carla S. Shaw
Production Technician

cc: A.M. O'Hare
Dennis Reimers
NMOCD-Aztec-Steve Hayden ✓
BLM-Stephen Mason
FIMO-Kevin Gambrelli

APPLICATION FOR AUTHORIZATION TO INJECT

- I. **PURPOSE:** _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. **OPERATOR:** _____ MARALEX DISPOSAL, LLC
ADDRESS: _____ P.O. Box 338, Ignacio, CO 81137
CONTACT PARTY: _____ A.M. O'Hare _____ **PHONE:** 970/563-4000
- 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: _____ Trading Post SWD-782-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. See Attachment 1**
- 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 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.**
- 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 sources 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:** _____ A.M. O'Hare _____ **TITLE:** _____ Managing Member _____
- SIGNATURE:** _____ *A.M. O'Hare* _____ **DATE:** 08/20/02 _____
- * **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:** _____

INJECTION WELL DATA SHEET

MARALEX DISPOSAL, LLC

OPERATOR:

WELL NAME & NUMBER: TRADING POST DISPOSAL NO. 2 (formerly known as Bisti No. 2)

WELL LOCATION: 740' FSL; 1860' FEL

0

23

25N

11W

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICSchematic Attached Within
This Application.WELL CONSTRUCTION DATASurface Casing

Hole Size: 12-1/4" Casing Size: 8-5/8"

Cemented with: 210 sx. or 248 ft³

Top of Cement: Surface Method Determined:

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"

Cemented with: 900 sx. or ft³

Top of Cement: Surface Method Determined:

Total Depth: 5100'

Injection Interval4962'
5004'4980' (Marye Bar)
5010' (Huerfano)

feet to

(Perforated) or Open Hole; indicate which)

III. WELL DATA

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

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

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

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEETTubing Size: 2-7/8" Lining Material: Internally Coated PlasticType of Packer: Permanent Injection PackerPacker Setting Depth: Approximately 4950'Other Type of Tubing/Casing Seal (if applicable): Additional Data

1. Is this a new well drilled for injection? Yes X No

If no, for what purpose was the well originally drilled? Oil & Gas Production

2. Name of the Injection Formation: Gallup

3. Name of Field or Pool (if applicable): Bisti Lower Gallup

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

Huerfano Perforations 5004'-5010' > Gallup
 Marve Bar Perforations 4962'-4980'

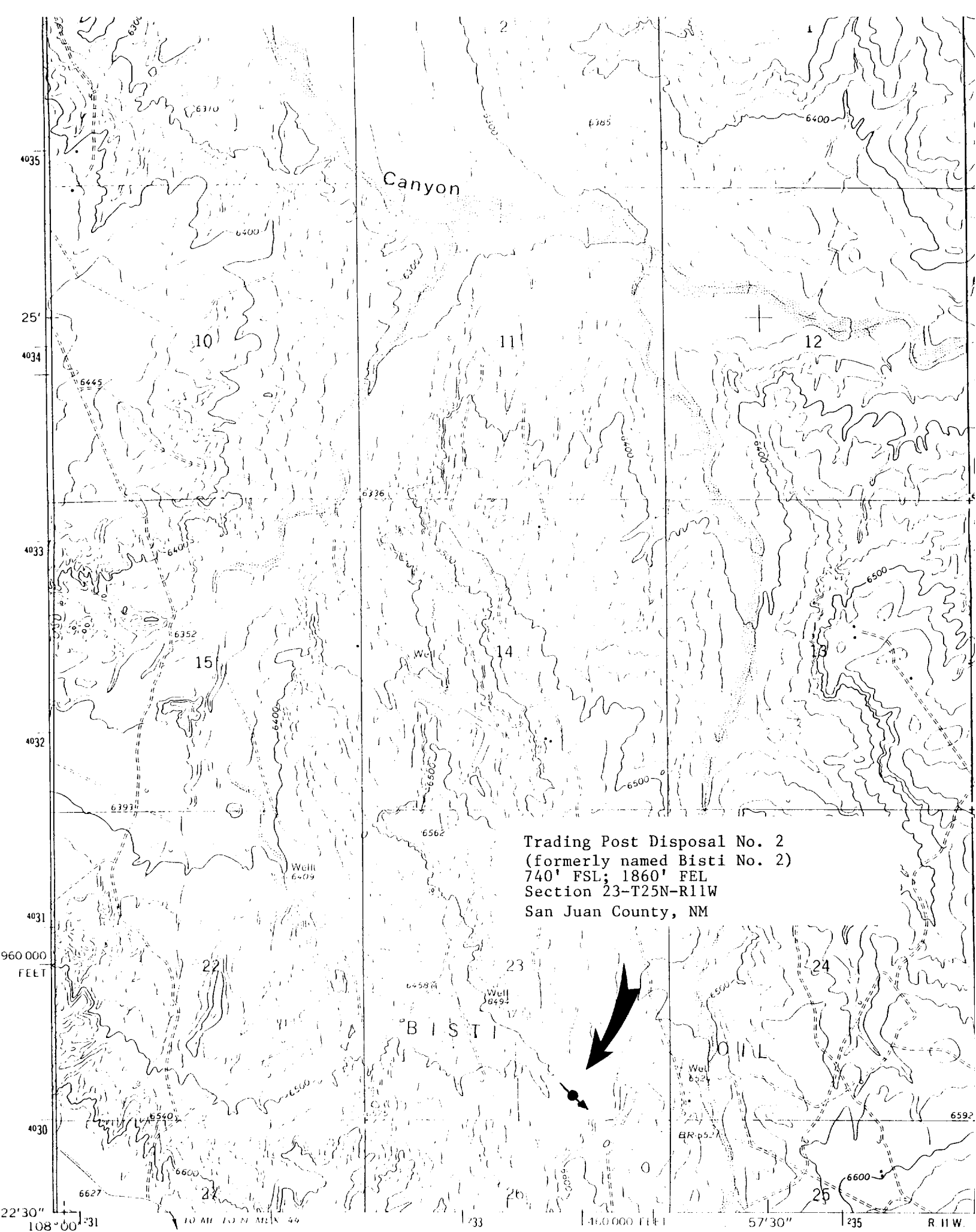
5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Dakota (Offset Well Test) 5900' - 6100'

Gallup (Wet) 4565' - 5010'

Mesa Verde (Wet) 2045' - 3748'

Pictured Cliff (Wet) 1310' - 1330'

Fruitland (Water/Gas) 1067' - 1310'



Trading Post Disposal No. 2
(formerly named Bisti No. 2)
740' FSL; 1860' FEL
Section 23-T25N-R11W
San Juan County, NM

**MARALEX DISPOSAL, LLC
TRADING POST DISPOSAL # 2
PROPOSED GALLUP PRODUCED WATER DISPOSAL WELL**

WELL DATA

(As Related to Section III of the OCD Application Form C-108)

1. Lease: BIA NO-G-9909-1357

Well No: Trading Post Disposal #2 (Bisti #2)

Location: 740' FSL; 1860' FEL, Section 23-T25N-R11W
San Juan County, NM
2. Casing and Cementing Specifications (as completed September 1973)

<u>Depth</u>	<u>Hole Size</u>	<u>Casing & Weight</u>	<u>Cement</u>
312'	12-1/4"	8-5/8" 24 lb/ft	210 sxs. - 248 ft ³ - Circ. surf.
5100'	7-7/8"	5-1/2" 15.5 lb/ft	1 st Stage: 250 sxs.-DV Tool 2 nd Stage: 650 sxs.- @ 3895' Circ. cmt. to surface.

3. New 2-7/8" 6.5 lb/ft of internally coated tubing will be used as the injection string.
4. An injection packer will be set just above the top of the Gallup at a depth of approximately 4950'.

No wells within the area of review produce from the Pictured Cliffs, Mesa Verde, Gallup or Dakota sands. The only active producers in the ½ mile radius of investigation are two Maralex Fruitland Coal producers.

PROPOSED OPERATION:

(As Related to Section VII of the OCD Application Form C-108)

The Trading Post Disposal #2 (Formerly the Bisti #2) was drilled and completed by Coronado Management Corporation as a Gallup producer in September of 1983. The well was completed in the Huerfano and Mayre Bar intervals. Cumulative recovery from the Gallup is 11,551 barrels of oil and 9614 MCF. The well last produced in January of 1995. After Pro New Mexico purchased the well a casing integrity test was performed. In an effort to return the well to production the Huerfano perforations were isolated with a cement retainer and the complete Mayre Bar interval

was perforated and swab tested. After several days of testing the Gallup tested all water with only a faint trace of oil. Maralex has acquired the well from Pro New Mexico with the vision of converting it to a Gallup produced water disposal well. Our generalized procedure to convert this well to a disposal well is as follows:

1. Move-in a completion rig. Trip in hole with a 4 3/4" bit. Drill out the cement retainer currently set above the Huerfano perforations. Clean out to the PBTD of 5015'.
2. Pickup selective stimulation tools, and pump an acid breakdown treatment on the Huerfano and Mayre Bar perforations within the Gallup Formation.
3. After tripping out of hole with the selective stimulation tools, set an injection packer above the Gallup at 4950'. Internally coated 2 7/8" tubing will be seated in the packer and used as the wells permanent injection tubing. The well will be placed on injection and if required will be fractured stimulated to improve the injection rate.
4. The disposal system will operate totally contained. The disposal tanks, filtration and pump on the nearby Trading Post Disposal #1 will be used to provide injection water to the Trading Post Disposal #2. An injection line will be placed between the two wells with the volume regulated according to the maximum allowable pressure to each wellbore. The Trading Post Disposal #1 is set up with both Fruitland Coal seam water that is shipped by pipeline and hauled by truck. Six - 400 Bbl. tanks provide storage for the water that is to be disposed off at this well.
5. As previously referenced a step rate injectivity test will be conducted on the new disposal well to determine the maximum injection pressure that water can be injected below the fracture gradient of the Gallup. Typical wells in this area have seen a fracture gradient of approximately 0.64 psi/ft. We expect to inject approximately 1200 BWPD, which will decline as the coal wells are dewatered. With a true vertical depth of 4962', the anticipated fracture pressure is 1027 psi (surface). The step rate test will be conducted with a field inspector from the NMOCD.
6. Water analysis are included with this application showing the Fruitland coal seam water quality from our surrounding Trading Post wells. There are no known compatibility issues associated with the mixing of coal seam water with the Gallup formation.

GEOLOGICAL DESCRIPTION – GALLUP FORMATION:

(As Related to Section VIII of the OCD Application Form C-108)

The proposed target interval for disposing of the produced water is the Huerfano and Mayre Bar intervals of the Gallup. The formations in this area, with their tops as picked following the original completion, are as follows: (Depths are measured from KB to the top of each formation) KB level = 6510'.

	<u>Depth (Top)</u>	<u>Thickness</u>	<u>Lithology</u>
Upper Gallup	4565'	390'	Interbedded sandstones, siltstones and shales
Lower Gallup	4955'	55'	Interbedded sandstones, siltstones and shales

As the attached maps show, there are very few active wells in the immediate vicinity but quite a few plugged and abandoned wells. The closest producing Gallup wells are in the south-half of section 26 (Delo #12, and the JC Daum #1), and in the south-east of section 27 (Patty #1). These wells are outside the primary area of investigation and are very marginal lower Gallup producers. The attached table summarizes the cumulative recoveries and current rates on these wells:

	<u>Operator</u>	<u>Cum. Rec. (4/1/02)</u>		<u>Current Rates</u>	
		<u>Oil (Bbl)</u>	<u>Gas (MCF)</u>	<u>BOPD</u>	<u>MCFD</u>
Delo #12	Redwolf	1304	1,115,667	0.5	4
JC Daum #1	Dugan	14,593	907,136	0	1
Patty #1	Little O&G	10,604	297,909	0.5	26

PROPOSED STIMULATION PROGRAM:

(As Related to Section IX of the OCD Application Form C-108)

After drilling out the cement retainer, that is currently isolating the Lower Gallup, an acid breakdown treatment will be pumped through a selective stimulation tool across both the Lower and Upper Gallup perforations. The water injectivity of the Gallup will be tested. If required the Gallup will be stimulated with a sand propped fracture treatment.

LOGGING AND TESTING PROGRAM:

(As Related to Section X of the OCD Application Form C-108)

A Dual Induction-Laterlog and an FDC-CNL log were obtained on this well and were presumably submitted to the NMOCD by the original operator. No additional logging is planned. As previously referenced, after the acid breakdown treatment on the Lower and Upper Gallup perforations, a water injectivity test will be conducted to determine if the intervals need to be fracture stimulated. During the original completion these intervals were fracture stimulated, and it appears that sufficient conductivity with the formation exists to allow adequate water injection.

POTENTIAL FRESH WATER ZONES:

(As Related to Section XI of the OCD Application Form C-108)

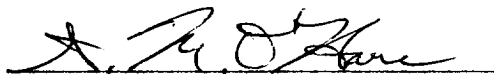
There are no known fresh water wells within a one-mile radius of the proposed disposal well.

AFFIRMATIVE STATEMENT

(As Related to Section XII of the OCD Application Form C-108)

Certification:

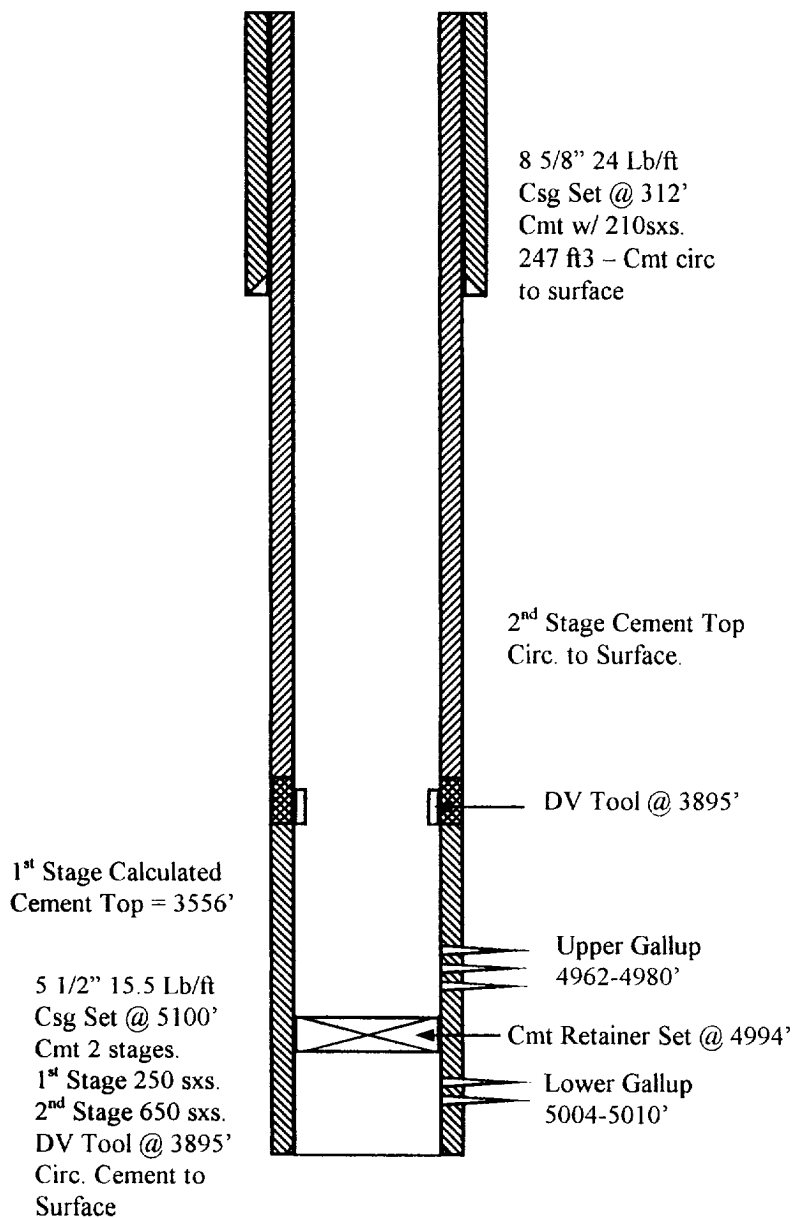
I hereby certify that I, or persons under my direct supervision, have inspected the proposed produced water disposal well site and found no evidence of open faults or any other hydrologic connection between the proposed disposal zone and any underground sources of drinking water and, that I am familiar with the conditions which currently exist and that the statements made in this application are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Maralex Disposal, LLC, and its contractors and subcontractors in conformity with this application and the terms and conditions under which it is approved.



A.M. O'Hare
Maralex Disposal, LLC

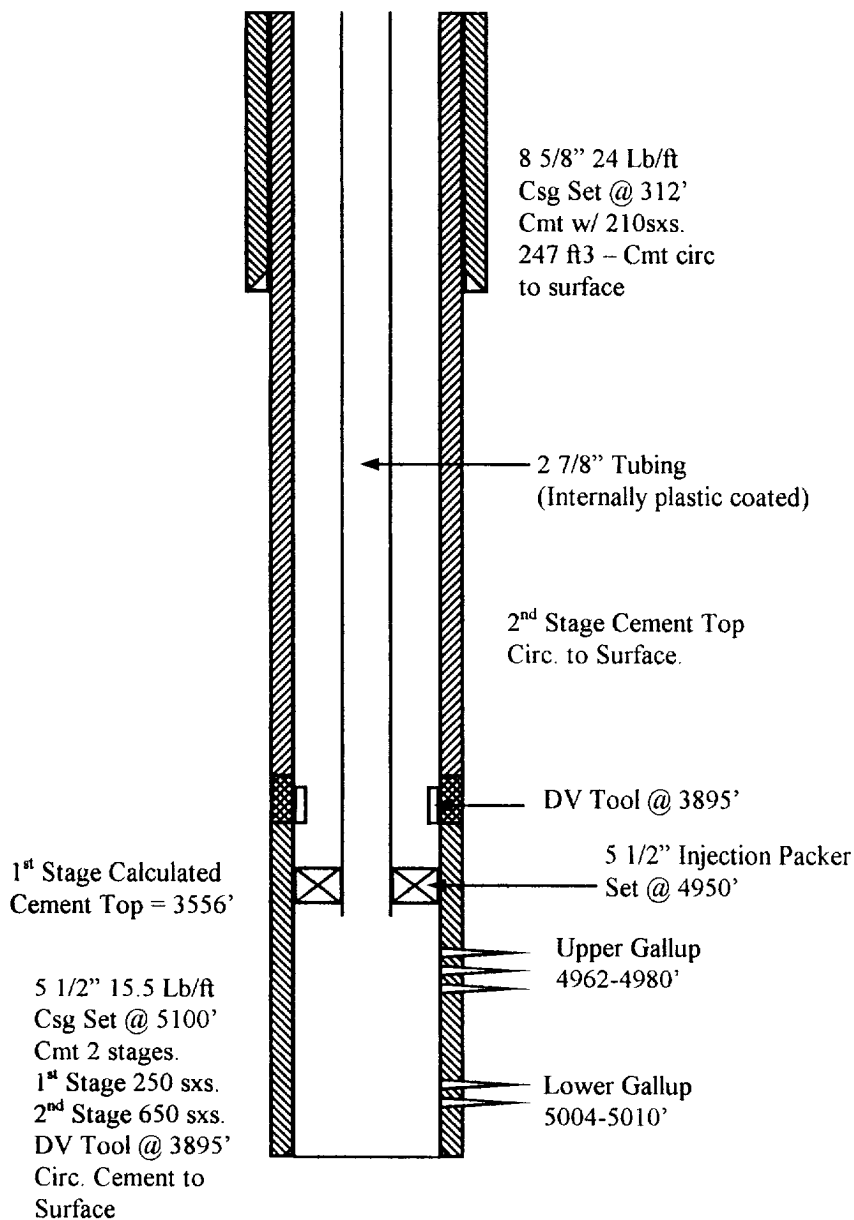
Trading Post Disposal #2
 (Formerly the Bisti #2)
 740' FSL, 1860' FEL
 S23-T25N-R11W

Current Status



Trading Post Disposal #2
 (Formerly the Bisti #2)
 740' FSL, 1860' FEL
 S23-T25N-R11W

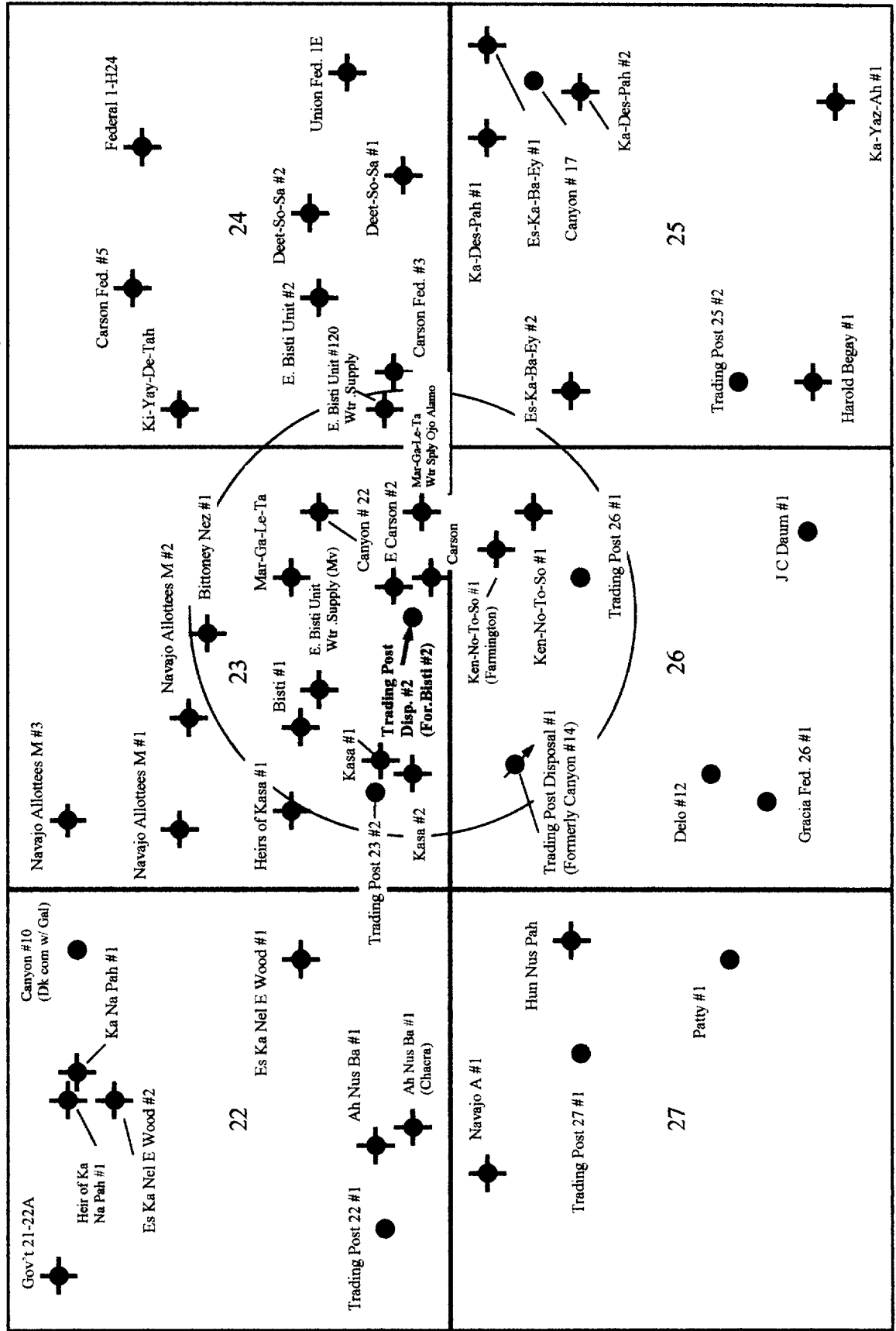
Injection Status



Maralex Disposal, LLC
 San Juan County, N.M.
 Trading Post Disposal #2
 (All Wellbores)

- Dakota Disposal
- Dakota
- Fruitland
- Gallup
- Pictured Cliffs
- Mesa Verde

R 11 W



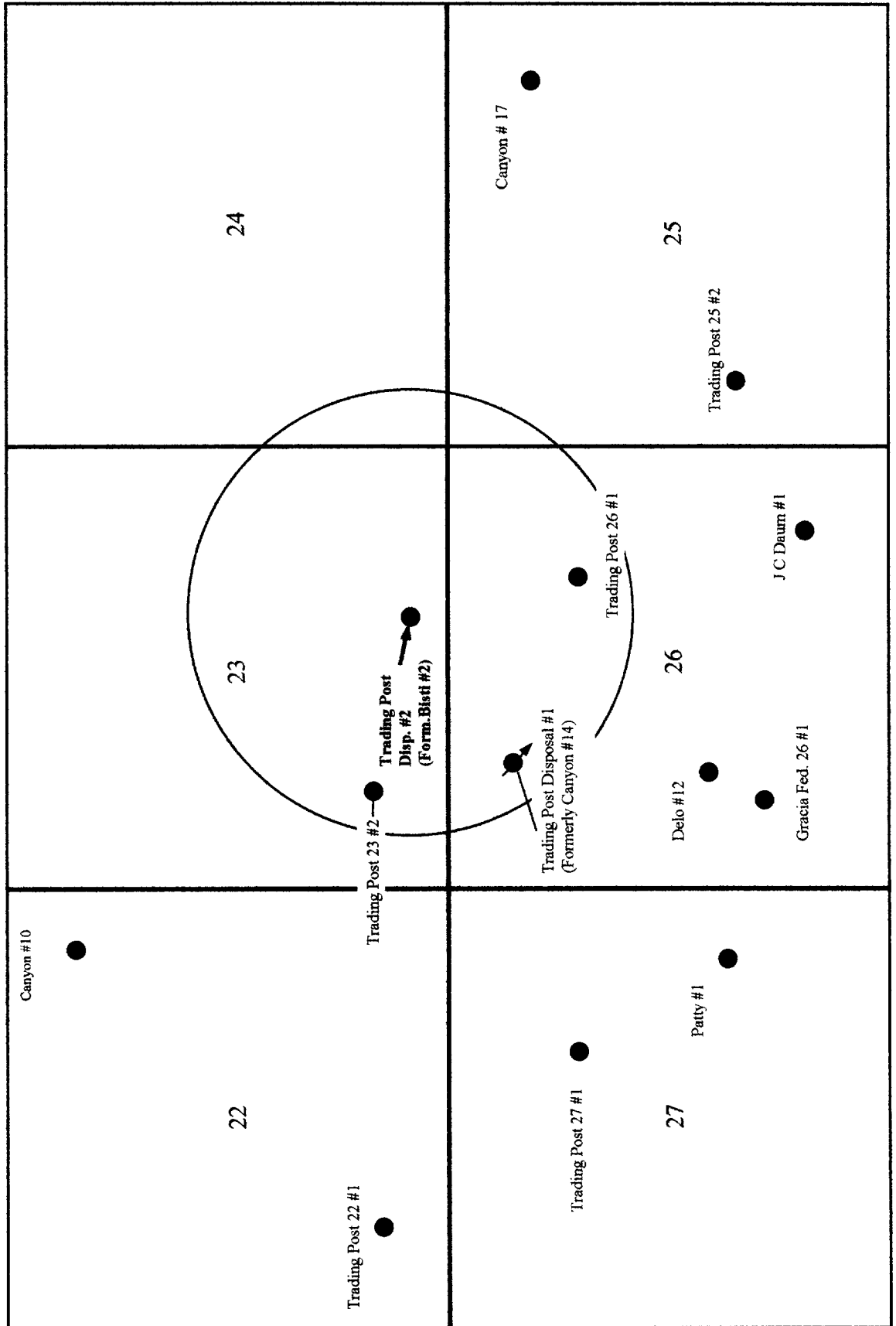
T 25 N

Maralex Disposal, LLC
 San Juan County, N.M.
 Trading Post Disposal #2
 (Active Wellbores)

Attachment No. 2

- Dakota Disposal
- Dakota
- Fruitland
- Gallup
- Pictured Cliffs
- Mesa Verde

R 11 W



T 25 N

TRADING POST DISPOSAL #1

Wellbore Diagram Disposal Configuration

990' FNL, 1600' FWL
S26-T25N-R11W

8 5/8" 24 lb/ft set @ 608'
12 1/4" hole - Cmt w/ 300 sxs
Estimated Cmt top @ 176'

Injection Perforations will be shot in the Mesa Verde and cement will be circulated to insure that the entire interval has a good cement bond. This may require several squeeze attempts. A final CBL will be obtained and submitted to the NMOC D. The Mesa Verde perforations will be picked after evaluating the CBL.

Stage Tool @ 3700' (est.)
Calculated top of 2nd stage cement = 3700'

Injection packer set at approximately 2100' (depending on Mesa Verde perforations)

2 7/8" plastic coated tubing set @ 2100'

Open Perforations:

Mesa Verde - Intervals to be picked after cmt. sqz. & CBL

Upper Dakota - 5879-5883' & 5900-5908'

Lower Dakota - 5958-5968', 6012-6032'

Sqz/ Perforations:

5011-5021'

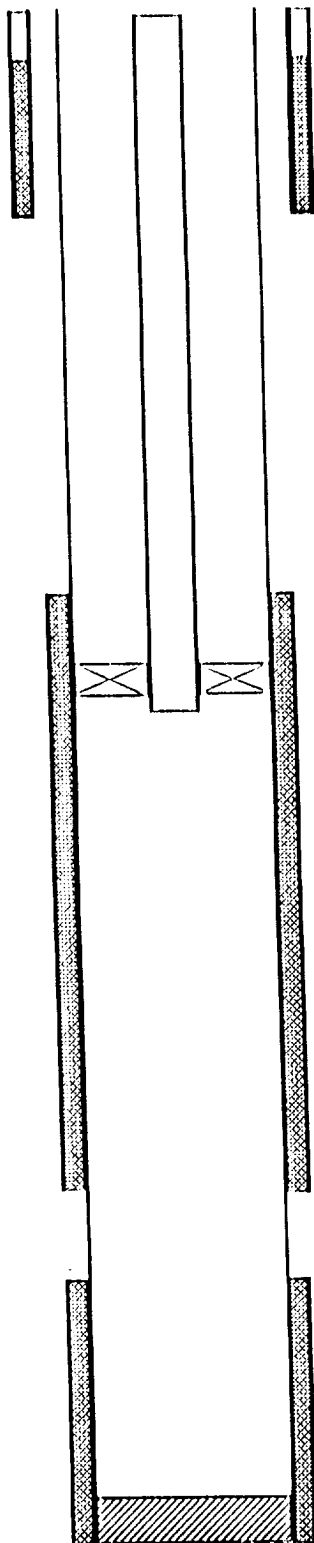
5879-5883', 5900-5908'

5902-5906'

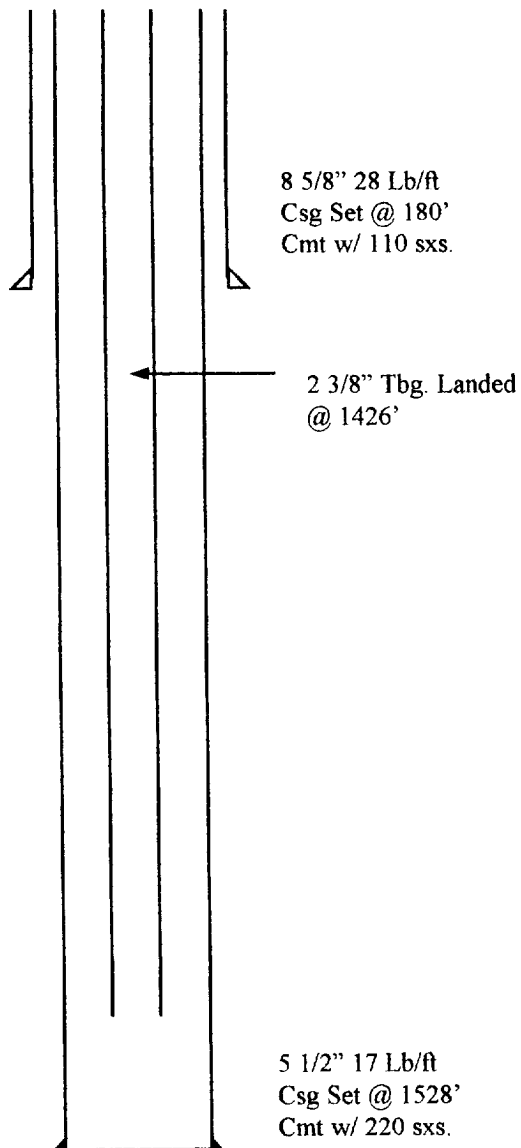
Calculated Top of 1st Stage = 5100'

PBTD @ 6055'

5 1/2" 15.5 lb/ft J-55 set @ 6060'
Cmt. w/800 sxs in 2 stages
Est. float collar @ 3700'

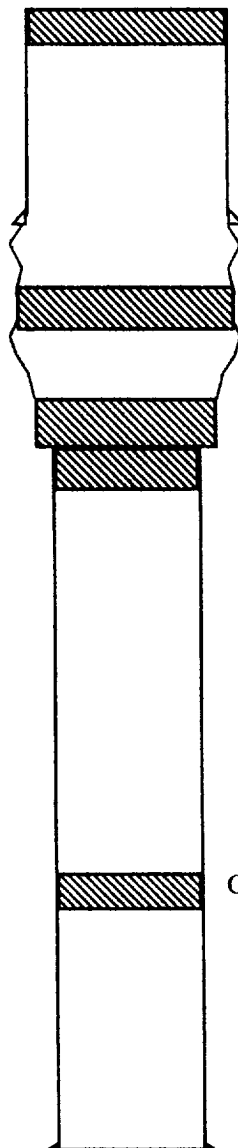


Trading Post 26 #1
1800' FNL, 1500' FEL
S26-T25N-R11W



Ken-No-To #1 (E. Bisti Unit #31)
660' FNL, 660' FEL
S26-T25N-R11W

Cmt.Plug 0-10'



8 5/8" 29 Lb/ft
Csg Set @ 236'
Cmt w/ 175 sxs.

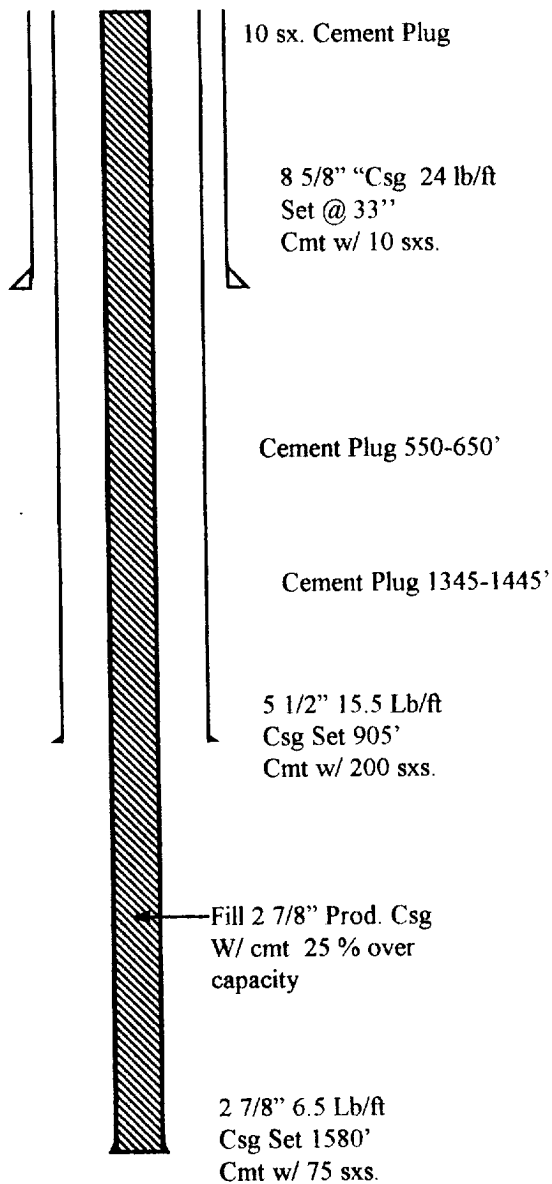
Cmt.Plug 585-685'

Shot 5 1/2" Csg off @ 1470'
Cmt Plug 1340'-1520'

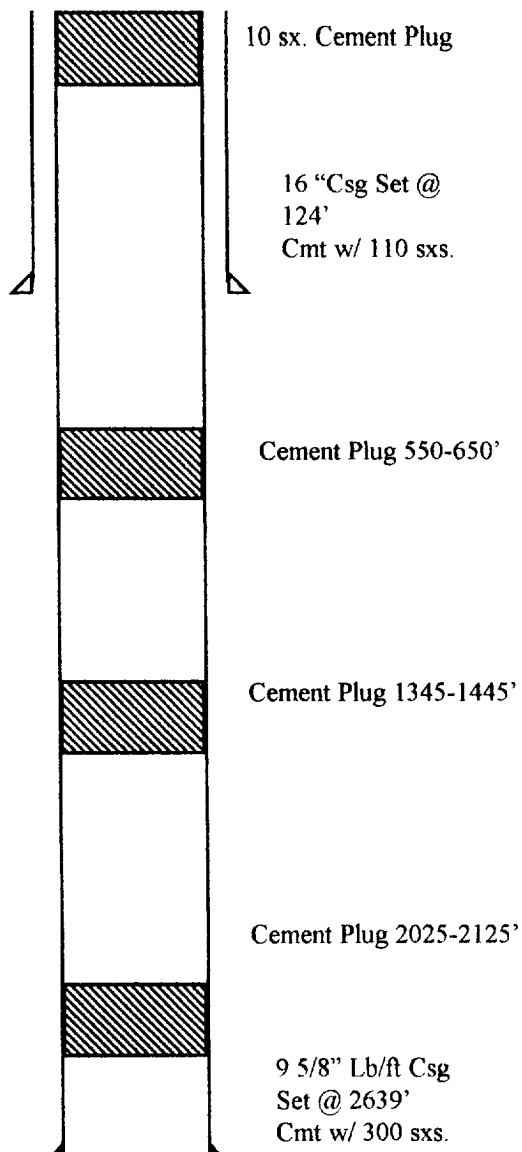
Cmt. Plug 4944-5044'

5 1/2" 14 Lb/ft
Csg Set @ 5050'
Cmt w/ 150 sxs.

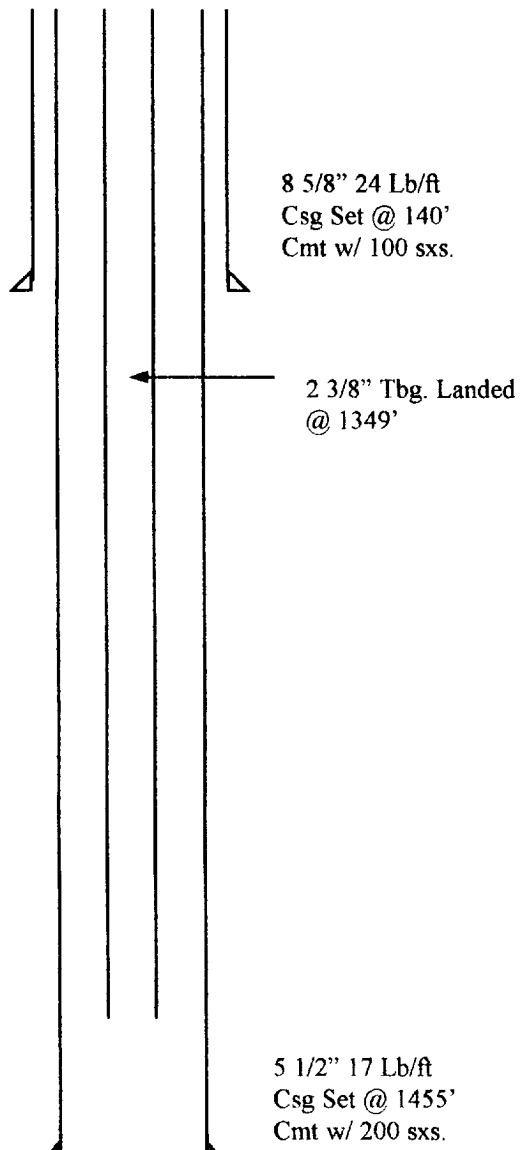
Ken-No-To #1
840' NL, 840' FEL
S26-T25N-R11W
Water Supply Well



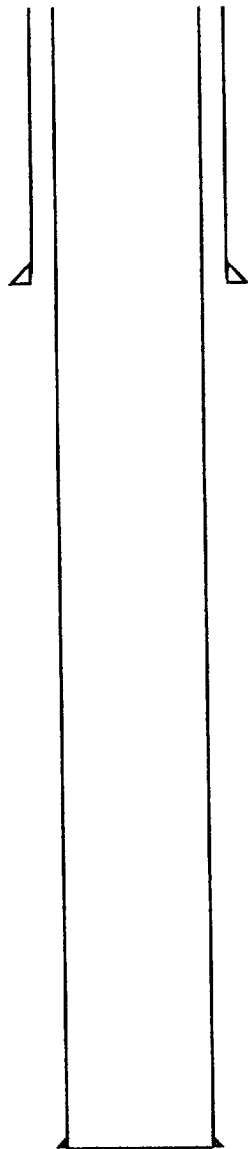
East Bisti #120
760' FSL, 240' FWL
S24-T25N-R11W
Water Supply Well



Trading Post 23 #2
900' FSL, 1800' FWL
S23-T25N-R11W



East Bisti #122
2080' FSL, 2060' FWL
S23-T25N-R11W
Water Supply Well

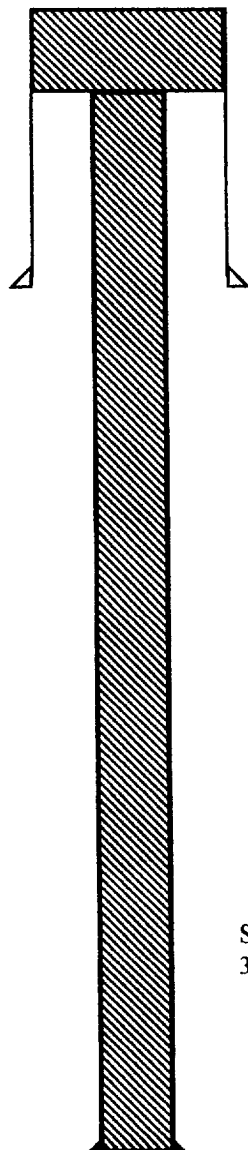


13 3/8Lb/ft Csg
Set @ 300'
Cmt w/ 110 sxs.

No P & A Information
available

7" Lb/ft Csg Set
@ 2411'
Cmt w/ 150 sxs.

East Carson Navajo #1
790' FSL, 1850' FEL
S23-T25N-R11W



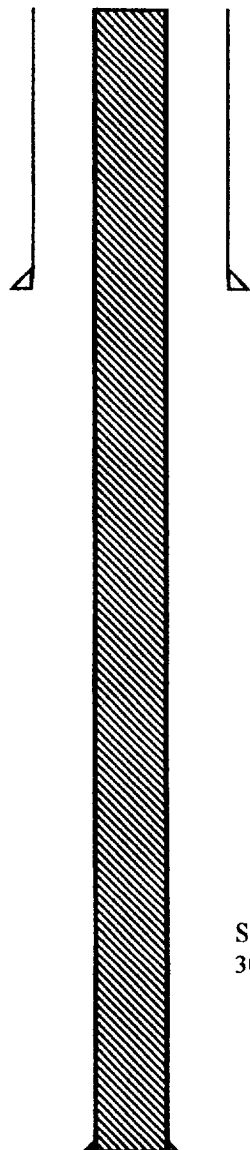
Backed off six joints 2 7/8"
Set surface plug from to of 2 7/8"
To surface

5 1/2" 15.5 Lb/ft
Csg Set @ 34'
Cmt w/ 5 sxs.

Squeezed 2 7/8" production casing w/ cmt.
30'-1350' 75 sxs.

2 7/8" 6.5 Lb/ft
Csg Set @ 1448'
Cmt w/ 35 sxs.

East Carson #2
960' FSL, 1685' FEL
S23-T25N-R11W



Backed off top joint 2 7/8"
Set 10 sx surface plug

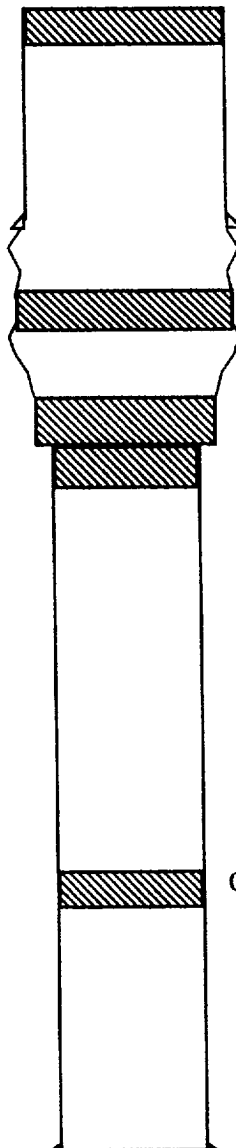
7" 24 Lb/ft Csg
Set @ 95'
Cmt w/ 35 sxs.

Squeezed 2 7/8" production casing w/ cmt.
30'-1350' 75 sxs.

2 7/8" 6.5 Lb/ft
Csg Set @ 1360'
Cmt w/ 125 sxs.

Ko-Sa #2 (E. Bisti Unit #29)
660' FSL, 1979' FWL
S23-T25N-R11W

Cmt.Plug 0-10'



8 5/8" 32 Lb/ft
Csg Set @ 293'
Cmt w/ 150 sxs.

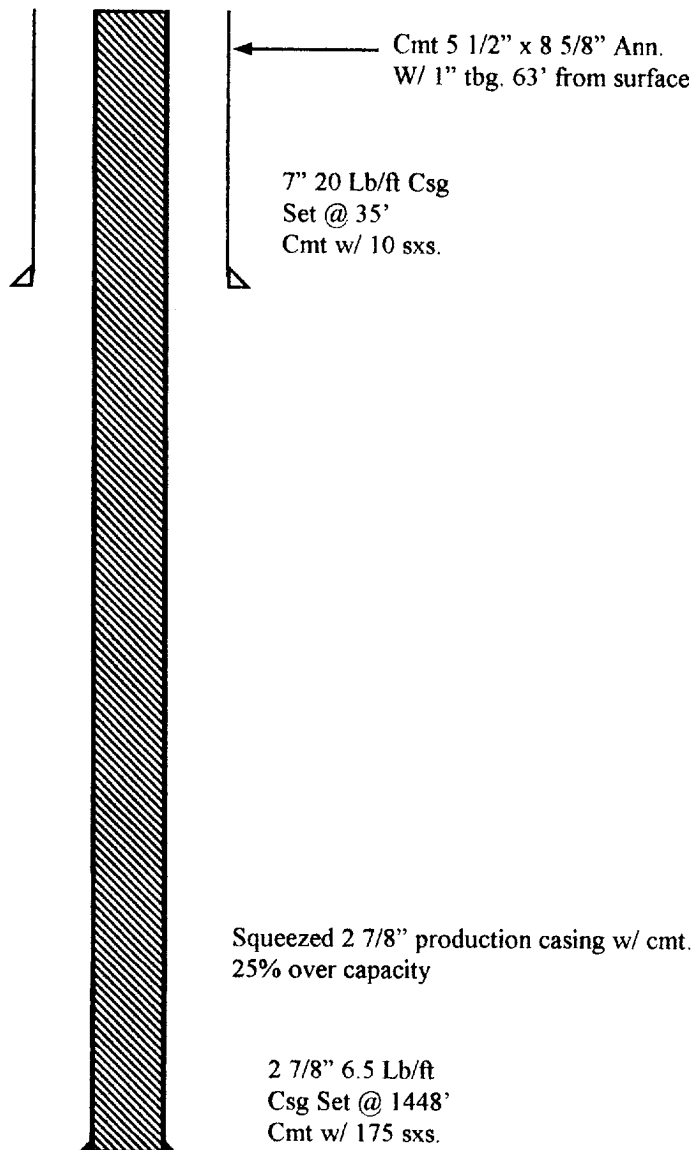
Cmt.Plug 495-595'

Shot 5 1/2" Csg off @ 1365'
Cmt Plug 1245'-1415

Cmt. Plug 4900-5000'

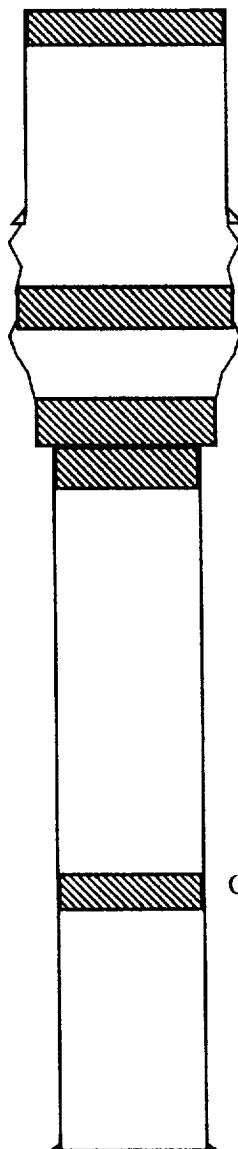
5 1/2" 14 Lb/ft
Csg Set @ 5050'
Cmt w/ 150 sxs.

Ko-Sa #1 #1
870' FSL, 1850' FWL
S23-T25N-R11W



Heirs of Kasa #1 (E. Bisti Unit #20)
1980' FSL, 720' FWL
S23-T25N-R11W

Cmt.Plug 0-10'



10 3/4" 32.75 Lb/ft
Csg Set @ 197
Cmt

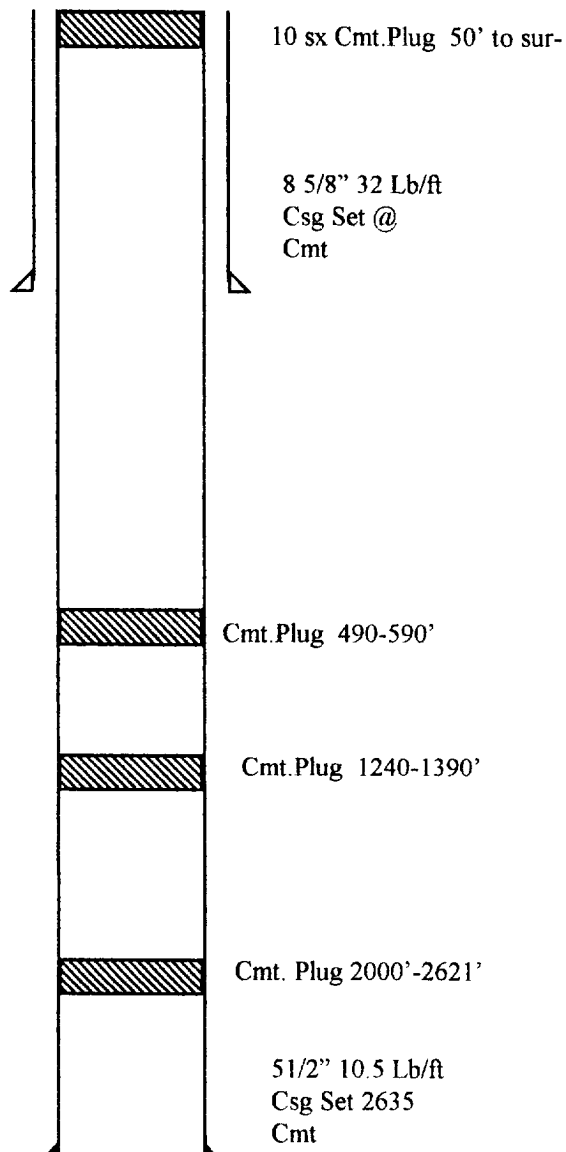
Cmt.Plug 450-550'

Shot 5 1/2" Csg off @ 1369'
Cmt Plug 1220'-1419'

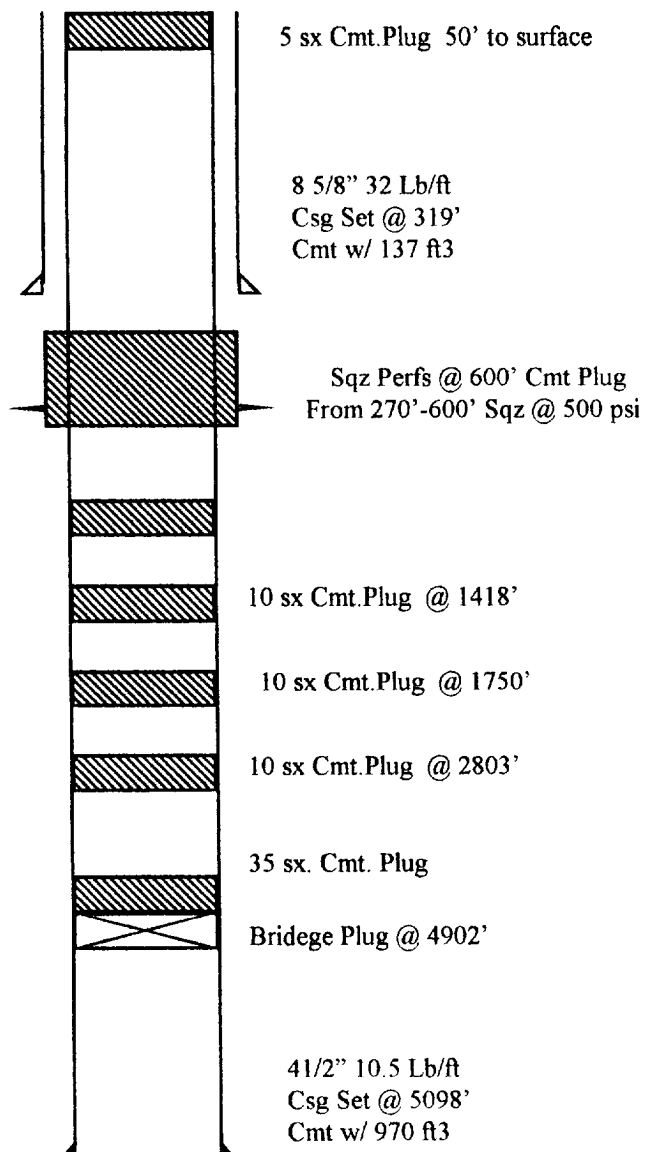
Cmt. Plug 4908-5008

5 1/2" 14 Lb/ft
Csg Set @ 5068'
Cmt

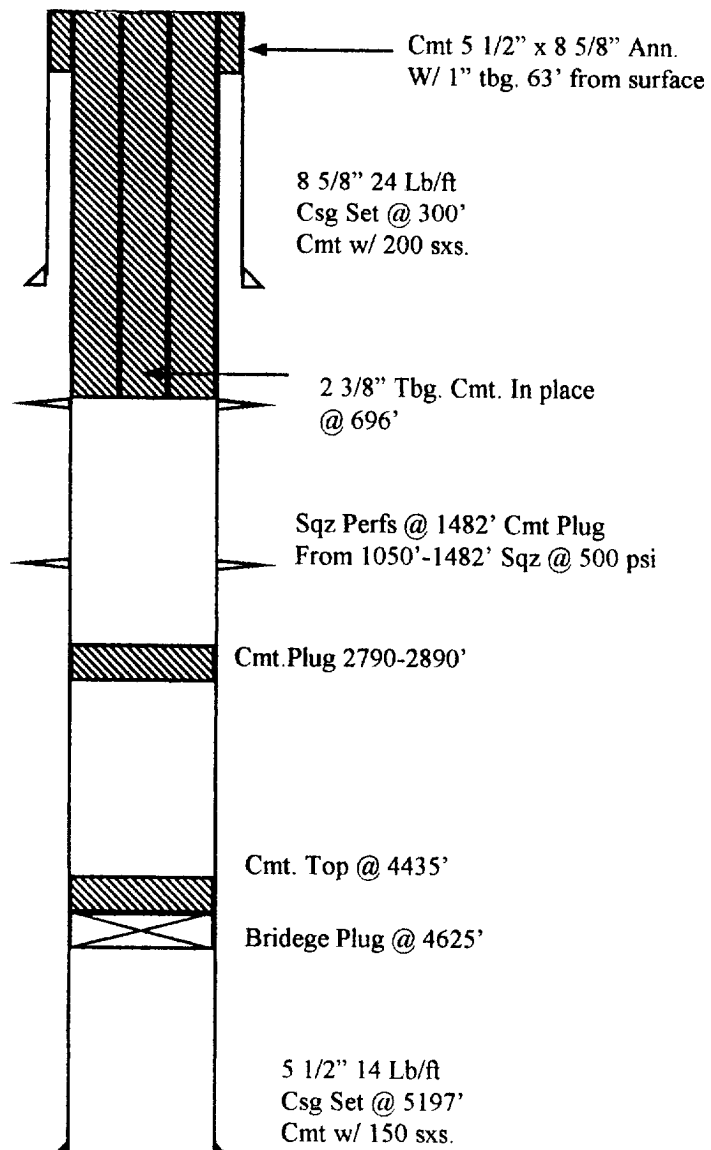
East Bisti #122
2080' FSL, 2060' FWL
S23-T25N-R11W



Bisti #1
 2090' FSL, 1960' FWL
 S23-T25N-R11W

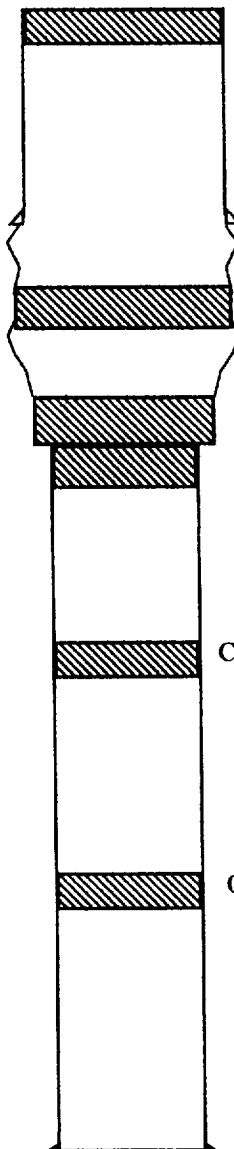


Bittoney Nez #1
 2310' FNL, 2310' FWL
 S23-T25N-R11W

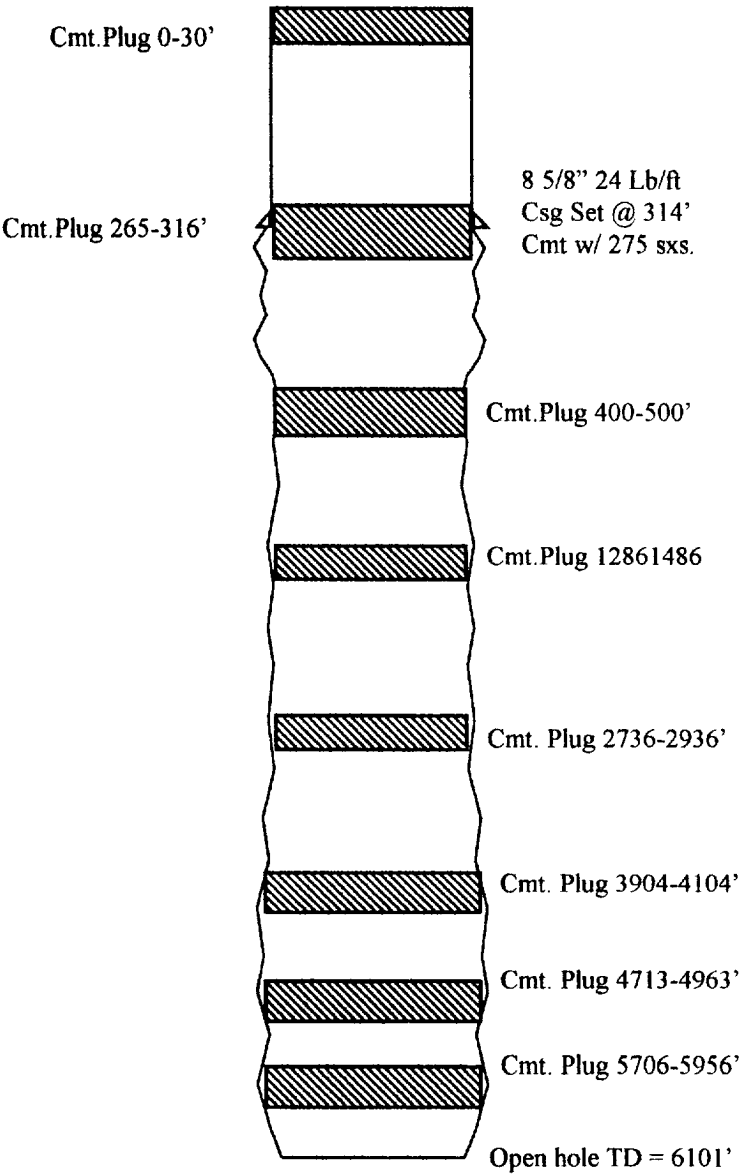


Mar-Ga-Le-Ta #1 (E. Bisti Unit #21)
1980' FSL, 1980' FEL
S23-T25N-R11W

Cmt.Plug 0-10'



Canyon #22
1850' FSL, 790' FEL
S23-T25N-R11W





Water Analysis Report

To: Maralax Resources Date: 11/03/2000
 Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
 Attention: 970-683-4118 Report #: BLMM0653
 Well Name: Trading Post # 1 Formation: Flow Back

Amthrene test for broken Gel - Negative

Specific Gravity	1.015	
pH	7.51	
Resistivity	0.72	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	300	Mg / L
Sodium (Na)	6272	Mg / L
Calcium (Ca)	141	Mg / L
Magnesium (Mg)	51	Mg / L
Chlorides (Cl)	8900	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	773	Mg / L
Total Dissolved Solids	17437	Mg / L


 Respectfully, Bill Loughridge

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.

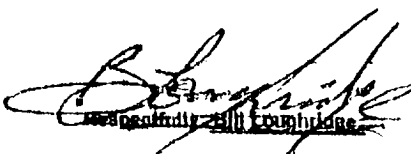


Water Analysis Report

To: Maralex Resources Date: 11/03/2000
Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
Attention: 970-883-4118 Report #: 81.MM0852
Well Name: Trading Post 22 # 1 Formation: Flow Back

Anthrone test for broken Gel - Negative

Specific Gravity	1.012	
pH	7.87	
Resistivity	0.78	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	300	Mg / L
Sodium (Na)	5766	Mg / L
Calcium (Ca)	124	Mg / L
Magnesium (Mg)	48	Mg / L
Chlorides (Cl)	9100	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	732	Mg / L
Total Dissolved Solids	16069	Mg / L



Title: Senior Scientist

Location: Farmington, NM

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HALLIBURTON

Water Analysis Report

To: Maralex Resources Date: 11/03/2000
Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
Attention: 870-663-4116 Report #: BLMM0055
Well Name: Trading Post 23 #2 Formation: Flow Back

Anthrone test for broken Gel - Negative

Specific Gravity	1.020	
pH	7.55	
Resistivity	0.73	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	300	Mg / L
Sodium (Na)	5903	Mg / L
Calcium (Ca)	100	Mg / L
Magnesium (Mg)	73	Mg / L
Chlorides (Cl)	9300	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	813	Mg / L
Total Dissolved Solids	18480	Mg / L


Representative Bill Laughton

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.



Water Analysis Report

To: Maralax Resources Date: 11/03/2000
Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
Attention: 970-563-4116 Report #: BLMM0684
Well Name: Trading Post 25 #2 Formation: Flow Back

Anthrose test for broken Gel - Negative

Specific Gravity	1.016	
pH	7.80	
Resistivity	0.74	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	100	Mg / L
Sodium (Na)	5928	Mg / L
Calcium (Ca)	129	Mg / L
Magnesium (Mg)	37	Mg / L
Chlorides (Cl)	9100	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	813	Mg / L
Total Dissolved Solids	16107	Mg / L


Respectfully, Bill Loughridge, C.S.

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described samples tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.



HALLIBURTON

Water Analysis Report

To: Marafax Resources Date: 11/03/2000
Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
Attention: 870-583-4116 Report #: BLMM0658
Well Name: Trading Post 28 #1 Formation: Flow Back

Anthrone test for broken Gel - Negative

Specific Gravity	1.020	
pH	7.87	
Resistivity	0.69	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	100	Mg / L
Sodium (Na)	6220	Mg / L
Calcium (Ca)	108	Mg / L
Magnesium (Mg)	32	Mg / L
Chlorides (Cl)	9500	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	813	Mg / L
Total Dissolved Solids	16773	Mg / L


Respectfully: Bill Coughridge

Title: Senior Scientist

Location: Farmington, NM

NOTICE: This report is limited to the described sample tested. Any person using or relying on this report agrees that Halliburton shall not be liable for any loss or damage whether due to act or omission resulting from such report or its use.



HALLIBURTON

Water Analysis Report

To: Maralax Resources Date: 11/03/2000
Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
Attention: 970-683-4118 Report #: BLMM0658
Well Name: Trading Post 27 #1 Formation: Flow Back

Anthrone test for Broken Gel = Negative

Specific Gravity	1.018	
pH	7.67	
Resistivity	0.71	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	300	Mg / L
Sodium (Na)	6093	Mg / L
Calcium (Ca)	104	Mg / L
Magnesium (Mg)	39	Mg / L
Chlorides (Cl)	9500	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	813	Mg / L
Total Dissolved Solids	16850	Mg / L

Title: Senior Scientist

Location: Farmington, NM

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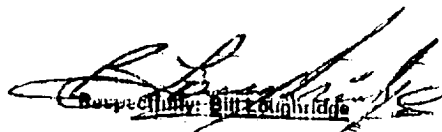


Water Analysis Report

To: Maralax Resources Date: 11/03/2000
Submitted by: Halliburton Energy Services Date Rec: 11/03/2000
Attention: 970-663-4116 Report #: BLMM065Z
Well Name: Trading Post 28 #1 Formation: Flow Back

Anthrone test for broken Gel - Negative

Specific Gravity	1.015	
pH	7.41	
Resistivity	0.75	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	100	Mg / L
Sodium (Na)	6107	Mg / L
Calcium (Ca)	88	Mg / L
Magnesium (Mg)	61	Mg / L
Chlorides (Cl)	9400	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	773	Mg / L
Total Dissolved Solids	16629	Mg / L


Respectfully: Bill Z. Dunlap

Title: Senior Scientist

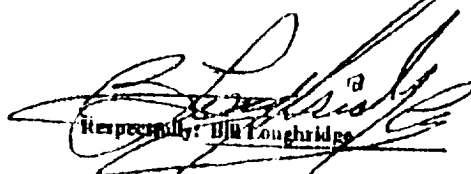
Location: Farmington, NM

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Water Analysis Report

To:	<u>Maralex</u>	Date:	<u>9/9/99</u>
Submitted by:	<u>Halliburton Energy Services</u>	Date Rec:	<u>9/9/99</u>
Attention:	<u>Jim Graves; 970-563-4000 (FX- 4116)</u>	Report #:	<u>WF-990-0208</u>
Well Name:	<u>Gracia Federal 26-1</u>	Formation:	<u>Flow back Water</u>

Specific Gravity	1.005	
pH	7.42	
Reactivity	0.68	@ 70° F
Iron (Fe)	0	Mg / L
Potassium (K)	150	Mg / L
Sodium (Na)	5880	Mg / L
Calcium (Ca)	112	Mg / L
Magnesium (Mg)	22	Mg / L
Chlorides (Cl)	9000	Mg / L
Sulfates (SO ₄)	0	Mg / L
Carbonates (CO ₃)	0.0	Mg / L
Bicarbonates (HCO ₃)	813	Mg / L
Total Dissolved Solids	15978	Mg / L


 Respectfully: D. J. Longbridge

Title: Field Chemist II

Location: Farmington, NM

NOTICE:

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P.O. Box 338
Ignacio, Colorado 81137
(970) 563-4000
FAX (970) 563-4116

August 20, 2002

Daily Times
P.O. Box 450
Farmington, NM 87499

Re: Legal Publication

The following information is required to be published according to the rules and regulations of the State of New Mexico, Oil Conservation Division. Please provide us with an Affidavit of Publication. This information is required to run in your newspaper for one day only. Please send bill to the above address.

Maralex Disposal, LLC
P.O. Box 338
Ignacio, CO 81137

Contact Person:
Dennis Reimers (970/563-4000)

Notice is given of Maralex Disposal, LLC request for authorization of a produced water disposal well named the Trading Post Disposal No. 2 and located as follows:

740' FSL; 1860' FEL
Section 23-T25N-R11W
San Juan County, New Mexico

The well will serve as a produced water disposal well for the Fruitland coal seam water from nearby production wells. Produced water disposal in the Gallup formation is requested. Anticipated injection rate of 1200 barrels of water per day is expected with a maximum injection pressure of 1000 psi.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87504, within 15 days.

Thank you.

Sincerely,

Maralex Disposal, LLC

Carla S. Shaw
Production Technician