

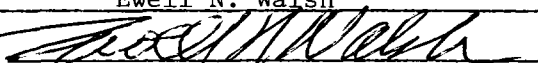
Case 9220

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: BASIN DISPOSAL, INC.
c/o Walsh Engr. & Prod. Corp.
Address: P. O. Drawer Farmington, N.M. 87499
Contact party: Ewell N. Walsh Phone: 505 327-4892
- 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 _____.
- 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. ATTACHMENT NO. 2
- * 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. ATTACHMENT NO. 3
- 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.). ATTACHMENT NO. 4
- *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. ATTACHMENT NO. 5
- IX. Describe the proposed stimulation program, if any. ATTACHMENT NO. 6
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) ATTACHMENT NO. 7
- * 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. ATTACHMENT NO. 8
- 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. ATTACHMENT NO. 9
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. ATTACHMENT NO. 10
- XIV. Certification

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

FOR: BASIN DISPOSAL, INC. President, Walsh Engr. &
Name: Ewell N. Walsh Title Production Corporation

Signature:  Date: August 12, 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.

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 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, P. O. Box 2088, Santa Fe, New Mexico 87501 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.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 1
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

III. Well Data

A. (1) Disposal, No. 1, 2207'FNL, 1870'FWL, Section 3-T29N-R11W, N.M.P.M.

(2) Proposed Casing Strings:

(a) Surface - 8-5/8", 24.0 lb. E.R.W., ST & C, set at approximately 285', cemented 12-1/4" hole with approximately 350 sacks Class "B" cement with 2.0% Calcium Chloride. (NOTE: Will use sufficient cement to bring cement to surface.)

(b) Production - 4-1/2". 10.50 lb. K-55, ST & C set at approximately 4700'. Cemented 7-7/8" hole, in two stages.

First Stage: (TD to approximately 2300')

Lead Cement - 75 sacks 65/35 Pozmix (12.0% Gel) with 6-1/4 lbs. Gilsonite per sack.

Tail Cement - 250 sacks, 50/50 Pozmix (2% Gel) with 6-1/4 lbs. Gilsonite and 6 lbs. salt per sack.

(Estimated top of cement and Second Stage cementing tool - 300' below top of Pictured Cliffs Formation.

Second Stage: (Approximately 2400' to surface)

Lead Cement - 525 sacks 65/35 Pozmix (12.0% Gel) with 6-1/4 lbs. Gilsonite per sack.

Tail Cement - 50 sacks Class "B" Cement.

(NOTE: All cement volumes to be determined after running logs.)

(3) 2-3/8", 4.70 lb. E.U.E., J-55, ST&C tubing with suitable lining will be utilized and set 50' to 100' above perforated injection interval.

(4) A retrievable packer will be utilized.

B. (1) The injection formation will be the Mesa Verde. Initial injection will be into the Point Lookout member. The proposed disposal well location is not located in any field or pool.



Page 2
Attachment No. 1
To Form C-108
Application for Authorization to Inject
Dated August 12, 1987

- B. (2) The injection interval will be determined after drilling and running logs. The injection interval will be perforated.
- (3) The well will be drilled only for injection purposes. No attempt will be made to complete the well as a producer.
- (4) Not applicable at this time.
- (5) The depth in the area, of the next higher producing zone, gas, is approximately 2100' (Pictured Cliffs). The depth of the next lower producing zone, gas, is approximately 6450' (Dakota).

XIV. Proof of Notice

- The applicant is owner of the surface of the land on which the well is located.
- The leasehold operator for the Mesa Verde Formation, within one-half mile of the well location is Meridian Oil Inc. Meridian Oil, Inc. is being advised of this application by a copy sent to them by registered mail.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 2
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

IV. See Exhibit No. 1 with Operator, Lease and Well Information attached.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 3
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

VI. BETA DEVELOPMENT COMPANY
 MARTIN 3, NO. 1
 UNIT E, SECTION 3-T29N-R11W
 San Juan County, New Mexico
 Elevation: 5750'K.B.

BETA DEVELOPMENT COMPANY
MARTIN "A", NO. 1
UNIT J, SECTION 3-T29N-R11W
San Juan County, New Mexico
Elevation: 5693'K.B.

Type:	Dakota	Dakota
Well Status:	PGW	PGW
Date Drilled:	October, 1959	January, 1964
Total Depth:	6783'	6608'
Perforations:	6457'-6470' 6510'-6533' 6564'-6584'	6400' to 6532' (Gross)
Surface Casing:	9-5/8" at 256' with 200 sacks cemented to surface.	8-5/8" at 314' with 175 sacks cemented to surface.
Production Casing:	5-1/2" at 6783' First Stage - 200 sacks Second Stage - 100 sacks DV Tool - 2190'	4-1/2" at 6608' First Stage - 150 sacks Second Stage - 500 sacks DV Tool - 2091'



BASIN DISPOSAL, INC.
ATTACHMENT NO. 4
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

- VII. 1. Average and maximum daily rate and volume of fluids to be injected will be determined after completion of injection well. Rates will be determined by Injectivity Test. Estimated, at this time, average daily injection rate to be approximately 2000 barrels per day.
2. System will be an open system.
3. Average and maximum injection pressure to be determined after injectivity test.
4. Source of injection fluids will be from various wells. Injection fluid should be compatible with receiving formation due to produced salt water being injected. Analysis of water in current disposal pit is attached. Disposal pit will be utilized as storage for injection well.
5. There is not a Mesa Verde (Cliff House, Menefee or Point Lookout) well within one mile of proposed injection well. Water analysis are not available in the immediate vicinity of the proposed injection well. Water analysis were presented in Case No. 7949, Order No. R-7370, Southland Royalty Company (now Meridian Oil, Inc.) an application for injecting produced water into the Point Lookout Formation in the McGrath No. 4, Unit B, Section 34-T30N-R12W concerning waters produced from the Point Lookout formation and Mesa Verde wells.

The exhibits stated that a water sample analysis of a Point Lookout/Menefee Test in the NW/4, Section 15-T30N-R12W yielded 33,200 ppm TDS. Also a water analysis of the Cooper, No. 3-E (MV) located in the SE/4, Section 6-T29N-R11W yielded 36,427 ppm TDS.

WATER ANALYSIS REPORT



DATE: 7/20/87

PAGE:

TO: Welch Engineering

LAB NO.:

TECH, Inc.

333 East Main
Farmington
New Mexico
87401

505/327-3311

Sample From Basin Disposal
.....
.....

(Skimmer)
Tanks

Date Sampled 7/17/87 Sampled
Time Sampled By R.W.

PARAMETER	mg/l	me/l
Acidity (CaCO ₃)		
Alkalinity (CaCO ₃)		
Bicarbonate	<u>11500</u>	<u>189</u>
Carbonate	<u>1870</u>	<u>62.4</u>
Hydroxide	<u>0</u>	<u>0</u>
Chloride	<u>13900</u>	<u>393</u>
Chlorine, Free		
Total		
Fluoride		
Nitrogen, Total		
Nitrate (N)		
Ammonia (N)		
Phosphate, Ortho		
Total		
Sulfur, Sulfate	<u>967</u>	<u>20.1</u>
Sulfide	<u>0</u>	
BOD ₅		
COD		
Hardness (CaCO ₃)		<u>gr.</u>
Oil & Grease		
Oxygen, Dissolved		
Phenols		
Solids, Total		
Dissolved	<u>43530</u>	
Suspended		
Settleable		<u>ml/l</u>
Conductivity	<u>3.9 x 10⁴</u>	<u>µmhos/cm</u>
pH	<u>8.83</u>	<u>units</u>
Turbidity		<u>NTU</u>
Specific Gravity	<u>1.0344</u>	

PARAMETER	mg/l	me/l
Arsenic		
Barium		
Boron		
Cadmium		
Calcium	<u>112</u>	<u>.6</u>
Chromium, Hex		
Total		
Iron, Dissolved		
Total		
Lead		
Magnesium	<u>37.4</u>	<u>1.9</u>
Mercury		
Potassium		
Selenium		
Silver		
Sodium	<u>15230</u>	<u>662</u>

Date Analyzed _____ Analyzed By _____
Received _____ Preserved? _____

REMARKS:

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC, AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TECH, Inc.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 5
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

VIII. See Exhibit No. 2

There are no underground sources of drinking water within a three (3) mile radius overlying or underlying the injection interval.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 6
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

- IX. Stimulation will be with sand and water if determined necessary after conducting injectivity test.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 7
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

- X. Logging and test data will be presented to the Oil Conservation Commission after drilling the proposed injection well.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 8
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

XI. No fresh water wells within one (1) mile of proposed injection well.



BASIN DISPOSAL, INC.
ATTACHMENT NO. 9
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

VII. I hereby certify that I have examined available geological and engineering data and can find no evidence of connection between the disposal zone and underground drinking water sources.

August 12, 1987

DATE

A handwritten signature in black ink, appearing to read 'Ewell N. Walsh', written over a horizontal line.

Ewell N. Walsh, P.E.

President

Walsh Engineering & Production Corporation



BASIN DISPOSAL, INC.
ATTACHMENT NO. 10
TO FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

XIII. Proof on Notice will be sent to the Oil Conservation Division as soon as received from newspaper.



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

August 20, 1987

Mr. William J. LeMay
Division Director
Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REF: Basin Disposal, Inc.
Application for Proposed Salt Water
Disposal Well
Dated August 12, 1987

Dear Mr. LeMay:

Attached are two (2) copies of Affidavit of Publication concerning the proposed disposal well.

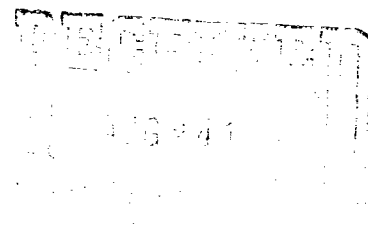
Please incorporate the attached copies into the above-referred-to application.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr
cc: Frank Chavez, OCD, Aztec, N.M.
Basin Disposal, Inc.
John Dean
Allen Alexander, Meridian Oil, Inc.

Attachment



AFFIDAVIT OF PUBLICATION

No. 20549

STATE OF NEW MEXICO,
County of San Juan:

Betty Shipp being duly
sworn, says: That he is the National Ad Manager of
THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation
published in English at Farmington, said county and state, and that the
hereto attached Legal Notice

was published in a regular and entire issue of the said FARMINGTON DAILY
TIMES, a daily newspaper duly qualified for the purpose within the
meaning of Chapter 167 of the 1937 Session Laws of the State of New
Mexico for One ~~consecutive~~ (days/ (week)) on the same day as
follows:

First Publication Wednesday August 19, 1987

Second Publication _____

Third Publication _____

Fourth Publication _____

and that payment therefor in the amount of \$ 10.79
has been made.

Betty Shipp

Subscribed and sworn to before me this 19th day
of August 19 87.

J. Shanta
NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO

My Commission expires: June 23, 1990

Copy of Publication

NOTICE OF APPLICATION TO DRILL INJECTION WELL

1) The Applicant's name is
Basin Disposal, G Road 5046,
Aztec, New Mexico, (505)
632-8936, and the contact party
for the applicant is Ewell N. Walsh,
3001 Northridge Drive, Post Office
Drawer 419, Farmington, New
Mexico, 87401, (505) 327-4892.

2) The intended purpose of the
injection well is to dispose of pro-
duced salt waters; the exact loca-
tion of the injection well is 2207
feet from the North line, 1970 feet
from the West line of Section 3,
Township 29 North, Range 11
West, N.M.P.M., San Juan County,
New Mexico.

3) The formation name is the
Mesa Verde; the depth of the in-
terval is approximately 3800 feet
to 4900 feet. The expected max-
imum injection rates and pres-
sures will be determined by injec-
tion tests, but will not exceed for-
mation fracture pressure.

4) Interested parties must file
objections or requests for hearing
with the New Mexico Oil Conserva-
tion Division, Post Office Box
2088, Santa Fe, New Mexico,
87501, within fifteen (15) days of
this notice.

Legal No. 20549 published in
the Farmington Daily Times, Farm-
ington, New Mexico on Wednes-
day, August 19, 1987.

AFFIDAVIT OF PUBLICATION

No. 20549

STATE OF NEW MEXICO,
County of San Juan:

Betty Shipp being duly
sworn, says: That he is the National Ad Manager of
THE FARMINGTON DAILY TIMES, a daily newspaper of general circulation
published in English at Farmington, said county and state, and that the
hereto attached Legal Notice

was published in a regular and entire issue of the said FARMINGTON DAILY
TIMES, a daily newspaper duly qualified for the purpose within the
meaning of Chapter 167 of the 1937 Session Laws of the State of New
Mexico for one ~~consecutive~~ (days/weeks) on the same day as
follows:

First Publication Wednesday August 19, 1987

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Third Publication _____

Fourth Publication _____

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has been made.

Betty Shipp

Subscribed and sworn to before me this 19th day
of August, 1987.

J. Shipp
NOTARY PUBLIC, SAN JUAN COUNTY, NEW MEXICO

My Commission expires: June 23, 1990

Copy of Publication

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2088, Santa Fe, New Mexico,
87501, within fifteen (15) days of
this notice.

Legal No. 20549 published in
the Farmington Daily Times, Farm-
ington, New Mexico on Wednes-
day, August 19, 1987.



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

August 18, 1987

Mr. William J. LeMay
Division Director
Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REF: Basin Disposal, Inc.
Application for Proposed Salt Water
Disposal Well
Dated August 12, 1987
Attachment No. 4

Dear Mr. LeMay:

Attached are two (2) copies of most recent water analysis of water in disposal pit.

Please incorporate the attached copies into the above-referred-to application to replace Attachment No. 4.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr
cc: Frank Chavez, OCD, Aztec, N.M.
Basin Disposal, Inc.
John Dean
Allen Alexander, Meridian Oil, Inc.

Enclosures

WATER ANALYSIS REPORT

DATE: 8/17/87

PAGE: C220-93

TO: Basin Disposal

LAB NO.: 2503-1068



TECH, Inc.
333 East Main
Farmington
New Mexico
87401
505/327-3311

Sample From Holding Pond
.....

Date Sampled 8/17/87 Sampled
Time Sampled By R.W.

PARAMETER	mg/l	me/l
Acidity (CaCO ₃)		
Alkalinity (CaCO ₃)		
Bicarbonate	<u>3160</u>	<u>51.8</u>
Carbonate	<u>183</u>	<u>6.1</u>
Hydroxide		
Chloride	<u>13,500</u>	<u>382</u>
Chlorine, Free	<u>0</u>	
Total		
Fluoride		
Nitrogen, Total		
Nitrate (N)		
Ammonia (N)		
Phosphate, Ortho		
Total		
Sulfur, Sulfate	<u>1010</u>	<u>21.0</u>
Sulfide	<u>1.9 ± .5</u>	
BOD ₅		
COD		
Hardness (CaCO ₃)		<u>gr.</u>
Oil & Grease		
Oxygen, Dissolved		
Phenols		
Solids, Total		
Dissolved	<u>28,400</u>	
Suspended		
Settleable		<u>ml/l</u>
Conductivity		<u>umhos/cm</u>
pH	<u>8.74</u>	<u>units</u>
Turbidity		<u>NTU</u>

PARAMETER	mg/l	me/l
Arsenic		
Barium		
Boron		
Cadmium		
Calcium	<u>32.9</u>	<u>1.6</u>
Chromium, Hex		
Total		
Iron, Dissolved		
Total		
Lead		
Magnesium	<u>47.2</u>	<u>8.0</u>
Mercury		
Potassium		
Selenium		
Silver		
Sodium	<u>10400</u>	<u>451.3</u>

Date Received 8/17/87 Preserved? distilled Date Analyzed 8/17/87 Analyzed By HP Hamilton

REMARKS: Sulfide analysis on sample treated w H₃PO₄ + distilled prior to reaction with I₂.

TECH

TO: Basin Disposal

LAB NO.: 2503-1068

TECH, Inc.

333 East Main
Farmington
New Mexico
87401

505/327-3311

Sample From Holding Pond.....

Date Sampled 8/17/87 Sampled
Time Sampled By R.W.

PARAMETER	mg/l	me/l	PARAMETER	mg/l	me/l
Acidity (CaCO ₃)			Arsenic		
Alkalinity (CaCO ₃)			Barium		
Bicarbonate	3160	51.8	Boron		
Carbonate	183	6.1	Cadmium		
Hydroxide			Calcium	32.9	1.6
Chloride	13,500	382	Chromium, Hex		
Chlorine, Free	0		Total		
Total			Iron, Dissolved		
Fluoride			Total		
Nitrogen, Total			Lead		
Nitrate (N)			Magnesium	97.2	8.0
Ammonia (N)			Mercury		
Phosphate, Ortho			Potassium		
Total			Selenium		
Sulfur, Sulfate	1010	21.0	Silver		
Sulfide	1.9 ± .5		Sodium	10400	451.3
BOD ₅					
COD					
Hardness (CaCO ₃)		gr.			
Oil & Grease					
Oxygen, Dissolved					
Phenols					
Solids, Total					
Dissolved	28,400				
Suspended					
Settleable		ml/l			
Conductivity		umhos/cm			
pH	8.74	units			
Turbidity		NTU			

Date Received 8/17/87 Preserved? Indefinite Date Analyzed 8/17/87 Analyzed By HP Hamlin

REMARKS: Sulfide analysis on sample treated w H_3PO_4 + distilled prior to reaction with I_2 .

AS A MUTUAL PROTECTION TO CLIENTS, THE PUBLIC, AND OURSELVES, ALL REPORTS ARE SUBMITTED AS THE CONFIDENTIAL PROPERTY OF CLIENTS, AND AUTHORIZATION FOR PUBLICATION OF STATEMENTS, CONCLUSIONS OR EXTRACTS FROM OR REGARDING OUR REPORTS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TECH, Inc.

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

August 12, 1987

CERTIFIED-RETURN RECEIPT

Mr. Allen Alexander
District Land Manager
Meridian Oil, Inc.
P. O. Box 4289
Farmington, New Mexico 87499

REF: Basin Disposal, Inc.
Application for Proposed
Salt Water Disposal Well

Dear Mr. Alexander:

Enclosed you will find a copy of the above-referred-to application.

Pursuant to conversation with Mr. Don Read it is requested that you send Mr. William J. LeMay, Director, Energy and Minerals Department, Oil Conservation Commission, a letter stating that Meridian Oil, Inc., as Leasehold Operator for the Mesa Verde Formation, does not have objections to the proposed disposal well.

Thank you for your cooperation and consideration in this matter.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr

cc: William J. LeMay, OCD, Santa Fe, N.M.
Frank Chavez, OCD, Aztec, N.M.
Basin Disposal, Inc.

Enclosures



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

August 17, 1987

Mr. William J. LeMay
Division Director
Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REF: Basin Disposal, Inc.
Application for Salt Water Disposal Well
Dated: August 12, 1987

Dear Mr. LeMay:

Attached you will find a xerox copy of Return Receipt indicating that Meridian Oil, Inc., received the copy of the above-referred-to application August 13, 1987.

Please incorporate this information with the above-referred-to application.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr
cc: Basin Disposal, Inc.
Frank Chavez, OCD, Aztec, N.M.
John Dean

Enclosure



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

August 12, 1987

RECEIVED

AUG 13 1987

OIL CONSERVATION DIVISION

Mr. William J. LeMay
Division Director
Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REF: Basin Disposal, Inc.
Application for Salt Water
Disposal Well
Dated: August 12, 1987

Dear Mr. LeMay:

Attached you will find a copy of the letter from Beta Development Company, who has the two Dakota wells within 1/2 mile of proposed disposal well.

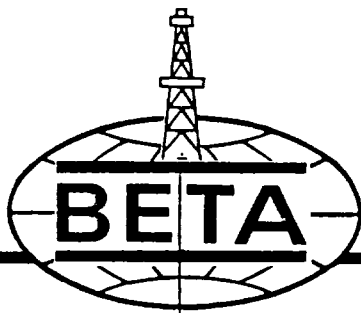
Please incorporate this information with the above-referred-to application.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr
cc: Frank Chavez, OCD, Aztec, N.M.
Basin Disposal, Inc.

Enclosure



DEVELOPMENT CO.

Incorporated

April 6, 1987

Reply to:

P. O. Box 1659,

Midland, Texas 79702

Basin Disposal Company
P.O. Box 100
Aztec, New Mexico 87410

Dear Jerry:

Beta Development Company operates four wells which offset your proposed Mesaverde disposal well. These four Beta wells are the Martin 34-1, located in Section 34, T30N, R11W; the Martin 3-1, located in Section 3, T29N, R11W; the Martin A-1, located in Section 3, T29N, R11W and the Fogelson 4-1 in Section 4, T29N, R11W.

Beta Development Company has no objection to your disposing of water in the Mesaverde formation offsetting these wells.

Yours very truly,

John T. Hampton
President

JTH:ef

NORTHWEST OGD ANNUAL SECTION-TOWNSHIP-RANGE WELL LIST FOR 1985 DATED APR
WELL S T R YR. OIL MP YR WATER YR. GAS O-G CUM OIL CUM WATER CUM G

Section 1 through 13
T29N-R11W

PAGE 231

LAND

MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

S A N J U A N C O U N T Y * * * * *

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MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS
S A N J U A N C O U N T Y * * * * *

WELL	S	T	R	YR.	OIL	MP	YR	WATER	YR.	GAS	O-G	CUM	OIL	CUM	WATER	CUM	GAS	ST	POOL	NAME	OPERATOR	LEASE	NAME	LAND
E	6	6	6	29N11M	1210	497	60	51074	G	833	406	1359	4220933	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	572	11	33	31921	G	3375	888	362	1934667	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	27011	11	33	31921	G	2170	51669	79	5677950	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	480	94	2	22307	G	20473	439	13	2285768	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	556	3	2	61229	G	5218	63	10	4542292	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	446	3	2	50008	G	19705	136	10	4994365	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	303	55	4	31025	G	25650	1001	518	2517374	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	400	26	2	48642	G	2161	518	2222012	BASIN DAKOTA	MESA	PETROL	E	FEDERAL							
E	6	6	6	29N11M	326	187	1	50061	G	1633	549	220712	814C	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	373	158	1	67251	G	19132	1047	2801226	3529664	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	530	72	1	61674	G	38780	599	3172804	7	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	79	14	1	41817	G	10343	14	1332892	68148	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	34	14	1	4664	G	9229	180	774248	431983	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	37	21	1	12589	G	37	345	1667	6547754	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	370	20	1	42180	G	11492	345	1442980	19814	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	39	18747	6	18747	G	19212	2428993	1231337	1133133	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	12739	G	22698	6	1937788	12037	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	25907	G	1928	6	153445	12037	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	431	6	1	37945	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	58446	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	15446	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	6007	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	11932	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	18779	G	14353	24	1777195	1334738	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	297	6	1	42353	G	14353	24	1777195	1334738	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	3168	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	20649	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	52	6	1	173	G	17519	6	232553	214470	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	144	28	1	21203	G	1635	28	222679	14404	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	612	29	1	57432	G	27135	29	2246913	2246913	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	12009	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
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E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA	MESA	PETROL	E	FEDERAL						
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E	6	6	6	29N11M	238	1	1	26724	G	8769	1	9222347	9222347	BASIN DAKOTA										

[illegible]

T30N-R11W

1E LAND

MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

SAN JUAN COUNTY *****

[illegible]

**WALSH**

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping3001 Northridge Drive
P.O. Drawer 419
Farmington, New Mexico 87401
(505) 327-4892

September 9, 1987

SEP 11 1987

Case 9220

Mr. William J. LeMay
Energy & Minerals Department
Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

REF: Basin Disposal, Inc.
Application for Salt Water Disposal Well
Dated: August 12, 1987
Notification of Hearing

Dear Mr. LeMay:

Attached you will find a xerox copy of Return Receipt indicating that Meridian Oil, Inc., received the copy of the Notification of Hearing.

Please incorporate this information with the above-referred-to application.

Very truly yours,

Ewell N. Walsh, P.E.
President

ENW:rr

cc: Basin Disposal, Inc.

Frank Chavez, OCD, Aztec, N.M.

Mr. John Dean

Mr. Perry Pierce, Montgomery Law Firm, Santa Fe, N.M.

Enclosures

PS Form 3811, July 1983

SENDER: Complete items 1, 2, 3 and 4. Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. <u>The return receipt fee will provide you the name of the person delivered to and the date of delivery.</u> For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.	
1. ☐ Show to whom, date and address of delivery.	
2. ☐ Restricted Delivery.	
3. Article Addressed to: Allen Alexander, District Land Mangr. Meridian Oil Company P. O. Box 4289 Farmington, N.M. 87499	
4. Type of Service: ☐ Registered ☐ Insured ☒ Certified ☐ COD ☐ Express Mail	Article Number P 638556370
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Addressee X	
6. Signature - Agent X <i>J. A. 1/9</i>	
7. Date of Delivery <i>9-3-87 RS</i>	
8. Addressee's Address (ONLY if requested and fee paid)	

DOMESTIC RETURN RECEIPT

UNITED STATES POSTAL SERVICE

OFFICIAL BUSINESS

SENDER INSTRUCTIONS

- Print your name, address, and ZIP Code in the space below.
- Complete items 1, 2, 3, and 4 on the reverse.
 - Attach to front of article if space permits, otherwise affix to back of article.
 - Endorse article "Return Receipt Requested" adjacent to number.

PENALTY FOR PRIVATE USE \$300



RETURN TO

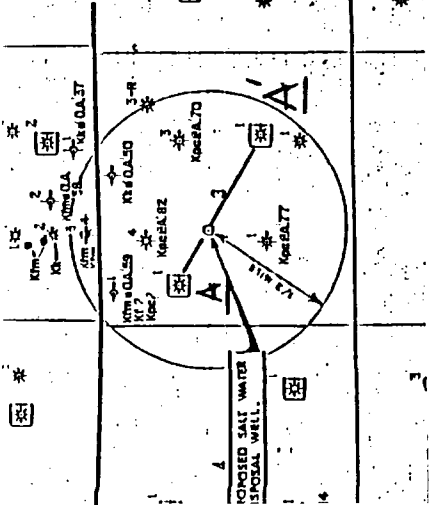


WALSH ENGR. & PROD. CORP.

P. O. Drawer 419 (Name of Sender)

(No. and Street, Apt., Suite, P.O. Box or R.D. No.)
Farmington, New Mexico 87499

(City, State, and ZIP Code)



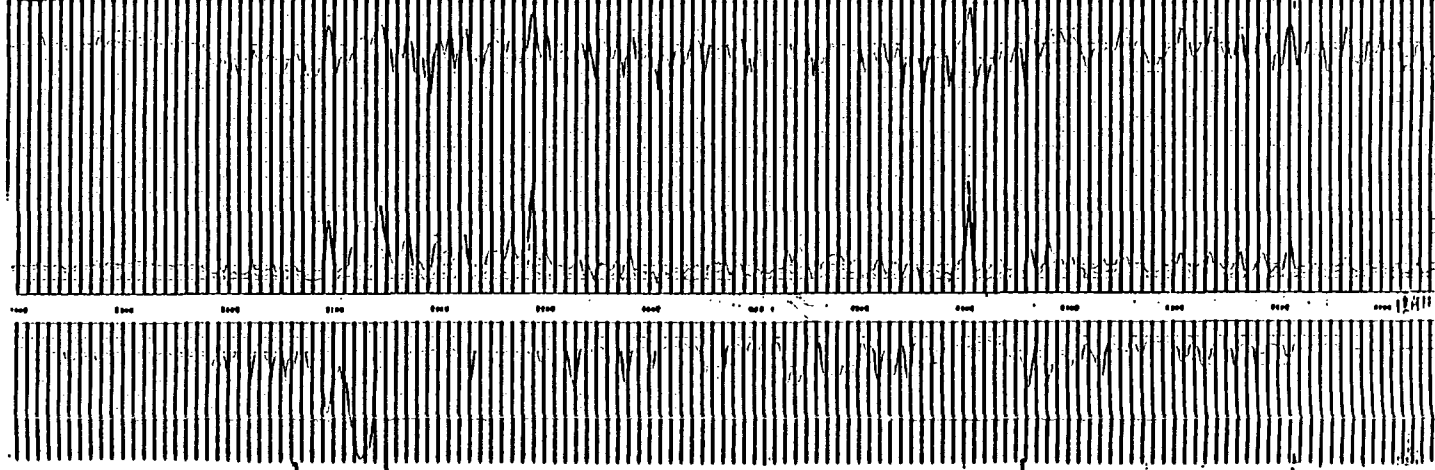
A
BETA DEVELOPMENT COMPANY
MARTIN 3, NO. 1
1611'FNL, 790'FWL
SECTION 3-T29N-R11W
San Juan County, New Mexico
(Dakota Well)

BASIN DISPOSAL, INC.
PROPOSED SALT WATER DISPOSAL WELL
DISPOSAL NO. 1
2207'FNL, 1870'FWL
SECTION 3-T29N-R11W
San Juan County, New Mexico

A
BETA DEVELOPMENT COMPANY
MARTIN "A", NO. 1
1775'FSL, 1575'FWL
SECTION 3-T29N-R11W
San Juan County, New Mexico
(Dakota Well)

BASIN DISPOSAL, INC.
FORM C-108
APPLICATION FOR AUTHORIZATION TO INJECT
DATED: August 12, 1987

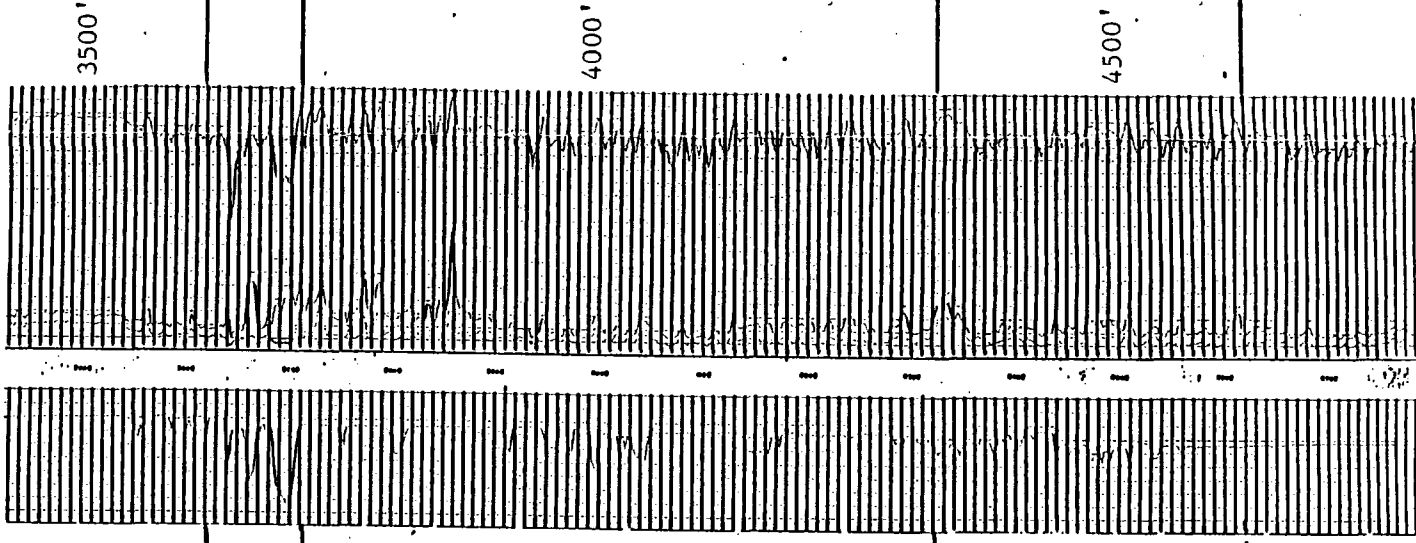
EXHIBIT NO. 2



TOP OF
CLIFF HOUSE
TOP OF
MENEFE

TOP OF
POINT LOOKOUT

TOP OF
MANCOS



3500'

4000'

4500'

3500'

4000'

4500'