DATE IN 5/30/06	SUSPENSE 6/15/06	ENGINEER WILL JONES	LOGGED IN 5/30/06	TYPE SWD	APP NO. pTDSO615058700

ABOVE THIS LINE FOR DIVISION USE ONLY

103 4

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☒ SWD ☐ IPI ☐ EOR ☐ PPR

30-045-30922

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name	Signature	Title	Date

e-mail Address

MERRION
OIL & GAS

Certified Mail 7005 1820 0002 8596 0898

May 23, 2006

Will Jones
NMOCD
1220 S. St. Francis St.
Santa Fe, NM 87505

Property Code 29064

API 3004530922

SUBJECT: PRETTY LADY 30-11-34 NO. 1

2006 MAY 25 PM 12 57

Dear Mr. Jones:

Merrion Oil & Gas proposes to convert the previously plugged and abandoned Pretty Lady 34-30-11 to a salt water disposal well, and to construct surface facilities to operate as a commercial SWD facility. The permit package it attached.

The "Proof of Notice" backup will follow under separate cover. We wanted to assure that you had the package of information prior to receiving inquiries.

If you have questions about this project, please call me at 505.324.5326 or email me at cdinning@merrion.bz.

Sincerely,

Connie S. Dinning
Production Engineer

Enclosures

csd

Cc: NMOCD Aztec Office, Well File

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: Merrion Oil & Gas Corporation

ADDRESS: 610 Reilly Ave., Farmington, NM 87401

CONTACT PARTY: Connie Dinning PHONE: 505.324.5326

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 __X__ 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. Map Attached

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail. No Wells in Area of Review Penetrate Proposed Injection Zone

VII. Attach data on the proposed operation, including: Data Attached

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. Data Attached

IX. Describe the proposed stimulation program, if any. Stimulation Design Attached

*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). On File w/ NMOCD

*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.
See attached State Engineer Office Data, no Actual Water Wells Found in Area

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. Statement Attached

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. Newspaper Advertisement and Certified Mail Receipts will follow under separate cover.

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: Connie Dinning TITLE: Production Engineer

SIGNATURE: _____ DATE: 5/23/06

E-MAIL ADDRESS: cdinning@merrion.bz

* 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: _____

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

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.

Section III
Well Data

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Merrion Oil & Gas Corporation

WELL NAME & NUMBER: Pretty Lady No. 30-11-34

WELL LOCATION: 1760' fsl & 1475' fel | J | 34 | 30N | 11W

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 ½" Casing Size: 13 ⅜"

Cemented with: 500 sx. *or* _____ ft³

Top of Cement: surface Method Determined: circulate

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 12 ¼" Casing Size: 9 ⅝"

Cemented with: 2300 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulated

Total Depth: 8104'

Injection Interval

Perforated 7384' feet to 7815'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 7" Lining Material: Plastic

Type of Packer: Weatherford "Arrow Pak" wireline set Packer w/ 6" Seal Bore

Packer Setting Depth: ±7350'

Other Type of Tubing/Casing Seal (if applicable): NA

Additional Data

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

   If no, for what purpose was the well originally drilled? This well was originally drilled as a Pennsylvanian production test that was unsuccessful. The wellbore was subsequently plugged and abandoned.

2. Name of the Injection Formation: Morrison & Entrada

3. Name of Field or Pool (if applicable): NA, no production in either zone in this area

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. No, open hole testing was performed below the casing, but the casing has never been perforated

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: As per the test data on this well, there are no known underlying oil and gas zones. Above this zone, there are four productive zones in the area listed with estimated depth ranges below.

   Farmington Sandstone: 950' – 1150'

   Fruitland Coal: 2000' – 2050', Pictured Cliffs: 2100' – 2150'

   Dakota: 6500' - 6680'

Huntington Energy
Wellbore Schematic
Pretty Lady 30-11-34
Current Wellbore Configuration

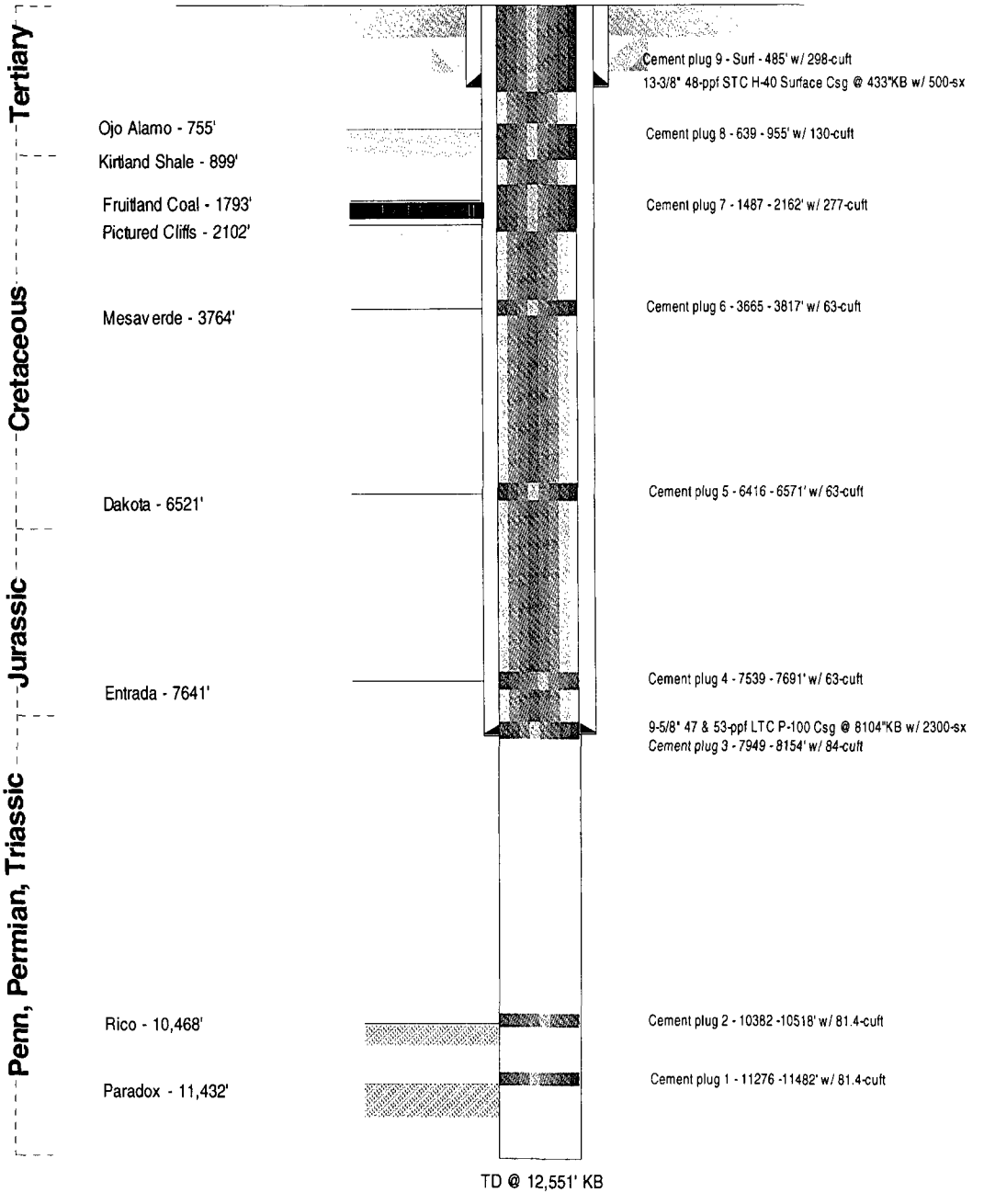
Location: 1760' fsl & 1475' fel (nw se)
Sec 34, T30N, R11W, NMPM
San Juan Co, New Mexico

Elevation: 5789' GL
5802' RKB

Field: Wildcat Paradox

Prepared: February 1, 2006

Prepared by: Steven S. Dunn



Merrion Oil & Gas Corp.
Wellbore Schematic

Pretty Lady 30-11-34

Proposed Wellbore Configuration

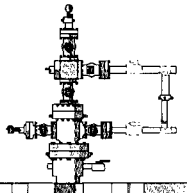
Location: 1760' fsl & 1475' fel (nw se)
Sec 34, T30N, R11W, NMPM
San Juan Co, New Mexico

Prepared: April 10, 2006

Elevation: 5789' GL
5802' RKB

Injection Zone: Morrison/Entrada

Prepared by: Connie Dinning



Tertiary

Cretaceous

Jurassic

Penn, Permian, Triassic

Ojo Alamo - 755'

Kirtland Shale - 899'

Fruitland Coal - 1793'

Pictured Cliffs - 2102'

Mesaverde - 3764'

Dakota - 6521'

Entrada - 7641'

Rico - 10,468'

Paradox - 11,432'

13-3/8" 48-ppf STC H-40 Surface Csg @ 433'KB w/ 500-sx

7", 23# plastic lined tubing landed in RCP w/ on/off tool

Retrievable Packer, set @ 7350' KB

Morrison/Entrada Perfs: 7384' - 7815', 3 spf

9-5/8" 47 & 53-ppf LTC P-100 Csg @ 8104'KB w/ 2300-sx
Cement plug 3 - 7949 - 8154' w/ 84-cuft

Cement plug 2 - 10382 -10518' w/ 81.4-cuft

Cement plug 1 - 11276 -11482' w/ 81.4-cuft

TD @ 12,551' KB

Section V
Area of Review Map

Section VII
Proposed Operation Data

Pretty Lady 30 11 34, Salt Water Disposal Well

VII.

1) Ave Rate: **10000 BPD** Max Daily Rate: **12000 BPD**

2) Ave. Pressure: **1400** Max Pressure: **1477 psi**

3) Annular Fluid: Packer fluid consisting of filming corrosion inhibitor and oxygen scavenger

4) Injection Fluid Analysis, Please see attached water analyses

5) Disposal Zone Water Data. There are no Entrada wells in the area, so no actual water analysis data is available. The attached chart, along with log data was used to estimated the produced water salinity Based on an average porosity of 14%
Rt = 7, and Rw=0.14, we estimate the TDS to be 18,500 ppm

Section VII 4)
Injection Fluid Analyses

WELL FILE / WATER ANALYSIS FILE

American Energy Services

Water Analysis Results Sheet

FRUITLAND COAL

Operator:	Merrion Oil	Date:	6/15/2000
Well :	Serendipity #1	District:	Farmington
Formation:	Pictured Cliffs	Requested by:	
County:		Technician:	Chad Durdin
Depth:		Source:	Produced Fluid

PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY: 1.01 AT 86 Degrees F.

pH:	7.45		SULFATES:	0	ppm
			CALCIUM:	396.0	ppm
IRON:	0	ppm	BICARBONATES:	1207.9	ppm
			RESISTIVITY:		ohm/meter
H2S:	0	ppm	CHLORIDES:	11485.1	ppm
			SODIUM :	6987.5	ppm
			POTASSIUM:	16.0	ppm
MAGNESIUM:	240.6	ppm	TDS:	20333.21	ppm

CaCO3 Scale Tendency = Remote
CaSO4 Scale Tendency = Remote

REMARKS:

Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

WELL FILE/ WATER ANALYSIS FILE

American Energy Services

Water Analysis Results Sheet

FRUITLAND COAL

Operator:	Merrion Oil	Date:	6/15/2000
Well :	Slice #1	District:	Farmington
Formation:		Requested by:	
County:		Technician:	Chad Durdin
Depth:		Source:	Produced Fluid

PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY:	1.01	AT 86 Degrees F.			
pH:	7.4		SULFATES:	0	ppm
			CALCIUM:	752.5	ppm
IRON:	0	ppm	BICARBONATES:	10388.1	ppm
			RESISTIVITY:		ohm/meter
H2S:	0	ppm	CHLORIDES:	11089.1	ppm
			SODIUM :	9147.4	ppm
			POTASSIUM:	14.0	ppm
MAGNESIUM:	577.4	ppm	TDS:	31968.52	ppm

CaCO3 Scale Tendency = Probable
CaSO4 Scale Tendency = Remote

REMARKS:

Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

WELLFILES/ H_2O ANALYSIS FILE

American Energy Services

Water Analysis Results Sheet

PICTURED CLIFFS

Operator:	Merrion Oil	Date:	6/15/2000
Well :	Morgan #7	District:	Farmington
Formation:		Requested by:	
County:		Technician:	Chad Durdin
Depth:		Source:	Produced Fluid

PHYSICAL AND CHEMICAL DETERMINATION

SPECIFIC GRAVITY:	1.02	AT 86 Degrees F.			
pH:	6.77		SULFATES:	0	ppm
			CALCIUM:	588.2	ppm
IRON:	10	ppm	BICARBONATES:	598.0	ppm
			RESISTIVITY:		ohm/meter
H2S:	0	ppm	CHLORIDES:	12941.2	ppm
			SODIUM :	6765.7	ppm
			POTASSIUM:	16.0	ppm
MAGNESIUM:	619.4	ppm	TDS:	21528.56	ppm

CaCO3 Scale Tendency = Remote
CaSO4 Scale Tendency = Remote

REMARKS:

Data contained in this document is based on the best information & most current test procedures and materials available. No liability is expressed or implied.

PC
CHACRA
DAKOTA

FW01W244

BJ SERVICES COMPANY

WATER ANALYSIS #FW01W244

FARMINGTON LAB

GENERAL INFORMATION	
OPERATOR: MERRION OIL & GAS	DEPTH:
WELL: FIFIELD COM #1E	DATE SAMPLED: 09/28/98
FIELD: SEC5/T29N/R11W	DATE RECEIVED: 09/28/98
SUBMITTED BY: TIM MERILATT	COUNTY: SAN JUAN STATE: NM
WORKED BY :D. SHEPHERD	FORMATION: POINT LOOKOUT
PHONE NUMBER:	

SAMPLE DESCRIPTION

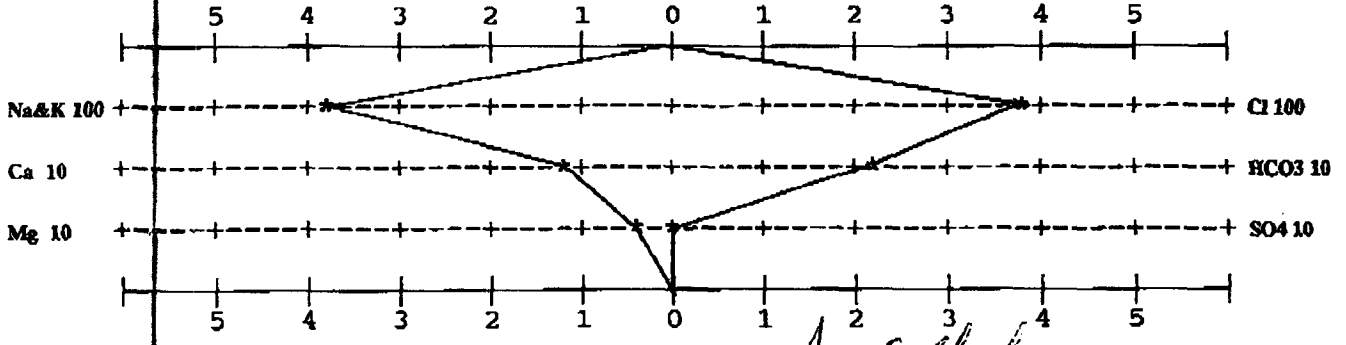
sample for analysis

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.012 @ 69°F	PH:	7.21
RESISTIVITY (MEASURED):	0.300 ohms @ 72°F		
IRON (FE++) :	10 ppm	SULFATE:	0 ppm
CALCIUM:	237 ppm	TOTAL HARDNESS	811 ppm
MAGNESIUM:	53 ppm	BICARBONATE:	1,326 ppm
CHLORIDE:	13,312 ppm	SODIUM CHLORIDE(Calc)	21,899 ppm
SODIUM+POTASS:	8,758 ppm	TOT. DISSOLVED SOLIDS:	24,208 ppm
H2S: NO TRACE		POTASSIUM CHLORIDE: 440 (PPM)	

REMARKS

STIFF TYPE PLOT (IN MEQ/L)



ANALYST David Shepherd
D. SHEPHERD

WATER ANALYSIS TESTING ENVIRONMENTAL REPORTS

1115 Farmington Avenue - Farmington , NM 87401
(505) 325-1085

MESA VERDE

Lab Sample No.: W93-446

Standard A.P.I. Water Analysis Report

Collected By: Carl Merilatt

Company: Merrion Oil & Gas Corp. Collection Date: 11/1/93

Well Name: Palmer #1 Collection Time: Unknown

Formation: Flora Vista Mesa Verde County: San Juan State: NM

Location: Sec . 36-T3N-R12W Analyst: K. Lambdin & S. Spencer

Karen Lambdin

Remarks: 1993 Flow Test--Sample taken from separator. Analysis Date: 11/1/93
(Temp 85 degrees F)

PARAMETER	as ION		Comment
Sodium , Na	13,000	mg/l	
Potassium, K	120	mg/l	
Calcium , Ca	230	mg/l	
Magnesium , Mg	70	mg/l	
Iron, Fe (Total)	0	mg/l	NR
Hydrogen Sulfide	0	mg/l	NR
pH	7.62	Units	
TDS	33,840	mg/l	

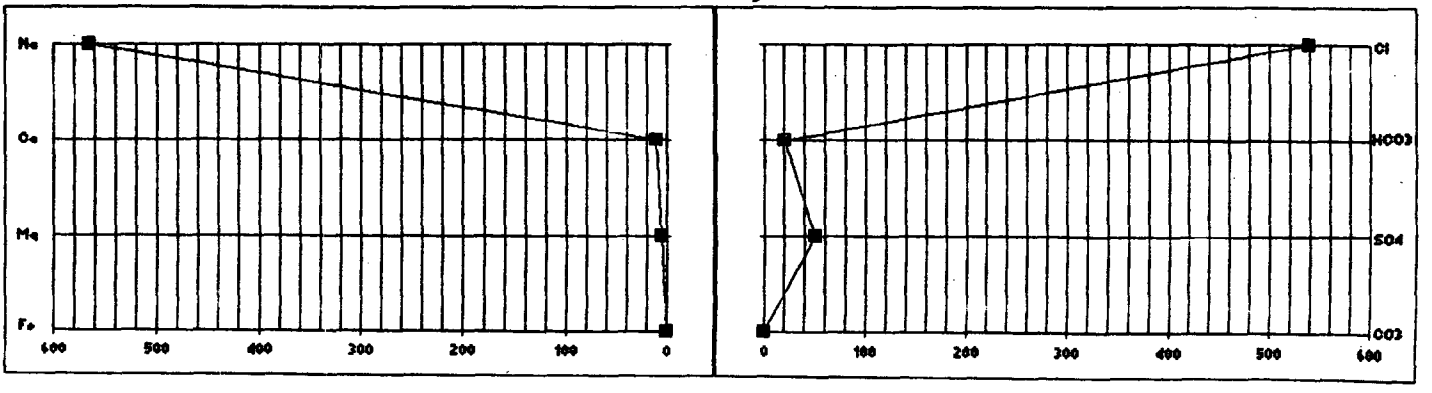
PARAMETER	as ION		Comment
Chloride , Cl	19,120	mg/l	
Sulfate, SO4	2400	mg/l	
Hydroxide, OH	0	mg/l	
Carbonate, CO3	0	mg/l	
Bicarbonate, HCO3	1,270	mg/l	
Resistivity (@25 Degrees C)	0.193	ohm-m	
Conductivity	51,900	uS	
Specific Gravity (@ 60 Degrees F)	1.025	Units	

Remarks: None.

NR = Test Not Run

Anion/Cation: 104.1%

Stiff Diagram



BAROID DIVISION
N L Industries, Inc.
P.O. Box 1675 Houston, Texas 77001

REPORT OF TEST

BAROID TREATING CHEMICALS

GALLUP

SHEET NUMBER

COMPANY: MERRION AND BAYLESS

DATE: APRIL 30, 1975

FIELD OR PLANT:

COUNTY OR PARISH: SAN JUAN

STATE: NEW MEXICO

LEASE OR UNIT:

WELL(S) NAME & NO.: CHARTIER

SAMPLE SOURCE: PRODUCTION UNIT

TYPE SAMPLE: PRODUCED WATER

TYPE TEST: CHLORIDE, TDS, SULFATE

REASON FOR TEST:

RESULTS:

Chloride, mg/l	7,000
Sulfate, mg/l	31
Total Dissolved Solids, mg/l	10,800

REMARKS & RECOMMENDATIONS:

SALES ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
BOB CUDD	12	FARMINGTON NM		
TESTED BY	**DATE**	**DISTRIBUTION:** ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ SALES ENGINEER OR ☐ CHEM. LAB ☐ CHEM. SALES SUPERVISOR		
HEATHER MANN	4-30-75			

FORM # BR-2146

N L Industries, Inc.
P.O. Box 167 Houston, Texas 77001

REPORT OF TEST

BAROID TREATING CHEMICALS

			SHEET NUMBER
GALLUP			
COMPANY			DATE
MERRION AND BAYLESS			APRIL 30, 1975
FIELD OR PLANT		COUNTY OR PARISH	STATE
		SAN JUAN	NEW MEXICO
LEASE OR UNIT	WELL(S) NAME & NO.	SAMPLE SOURCE	
	SULLIVAN	PRODUCTION UNIT	
TYPE SAMPLE		TYPE TEST	
PRODUCED WATER		CHLORIDE, SULFATE, TDS	
REASON FOR TEST			

RESULTS:

Chloride, mg/l	20,500
Sulfate, mg/l	13
Total Dissolved Solids, mg/l	21,600

REMARKS & RECOMMENDATIONS:

SALES ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
BOB CUDD		FARMINGTON NM		
TESTED BY	DATE	DISTRIBUTION: ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ SALES ENGINEER OR ☐ CHEM. LAB ☐ CHEM. SALES SUPERVISOR		
HEATHER MANN	4-30-75			

FORM # BR-2146

WELL: FEDERAL 29 #1E	DATE SAMPLED: 12/16/96
FIELD:	DATE RECEIVED:12/17/96
SUBMITTED BY:J. ALEXANDER	COUNTY: STATE:NM
WORKED BY :D. SHEPHERD	FORMATION: DAKOTA
PHONE NUMBER:	

SAMPLE DESCRIPTION

swab sample for analysis

DAKOTA

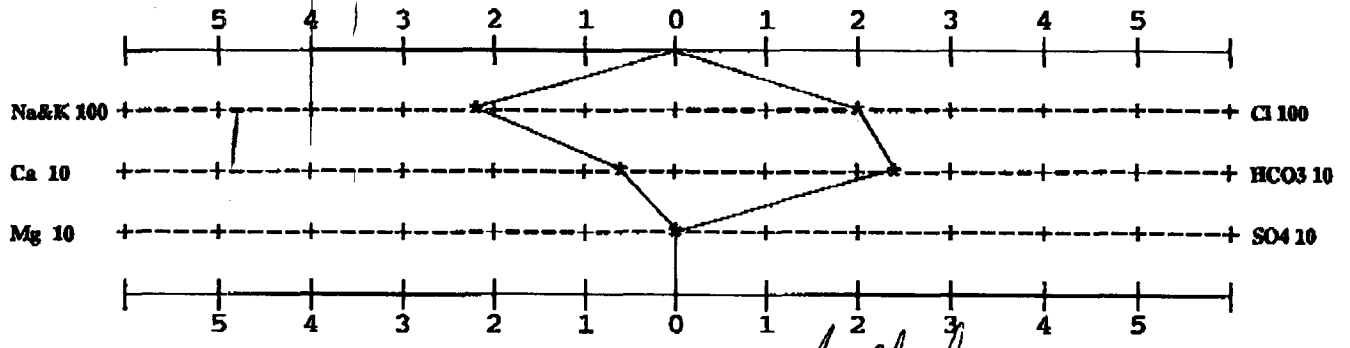
PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY:	1.006 @ 64°F	PH:	6.98
RESISTIVITY (MEASURED):	0.320 ohms @ 75°F		
IRON (FE++) :	75 ppm	SULFATE:	0 ppm
CALCIUM:	135 ppm	TOTAL HARDNESS	358 ppm
MAGNESIUM:	5 ppm	BICARBONATE:	1,455 ppm
CHLORIDE:	7,401 ppm	SODIUM CHLORIDE(Calc)	12,174 ppm
SODIUM+POTASS:	5,182 ppm	TOT. DISSOLVED SOLIDS:	14,396 ppm
H2S: NO TRACE		POTASSIUM PPM: 200	

REMARKS

LARGE AMOUNTS OF IRON WERE PRESENT IN SAMPLE INDICATING CORROSION

STIFF TYPE PLOT (IN MEQ/L)



ANALYST D. Shepherd

D. SHEPHERD

** TOTAL PAGE.02 **

BAROID DIVISION
N L Industrie nc.
P.O. Box 1675 Houston, Texas 77001

REPORT OF TEST

BAROID TREATING CHEMICALS

DAKOTA

SHEET NUMBER

COMPANY: Merrion and Bayless

DATE: 2-6-75

FIELD OR PLANT

COUNTY OR PARISH

STATE: New Mexico

LEASE OR UNIT

WELL(S) NAME & NO.: Canada #3

SAMPLE SOURCE: Production Unit

TYPE SAMPLE: Produced water

TYPE TEST

REASON FOR TEST

RESULTS:

Sulfates ppm	140
Chlorides ppm	8,400
Total Dissolved Solids ppm	19,800

REMARKS & RECOMMENDATIONS:

SALES ENGINEER	DIST. NO.	ADDRESS	OFFICE PHONE	HOME PHONE
Bob Cudd	12	Farmington NM	325-5701	334-2254
TESTED BY	DATE	DISTRIBUTION: ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ SALES ENGINEER OR ☐ CHEM. LAB ☐ CHEM. SALES SUPERVISOR		
Cudd				

FORM # BR-2148

Section VII 5)
Disposal Zone Water Data

PRETTY LADY # 30-11-34 APPROX BHT = 175°
7650' - 7815' AVG ϕ = 0.14 R_t = 7
R_w = 0.14
EST NaCl = 18500 ppm

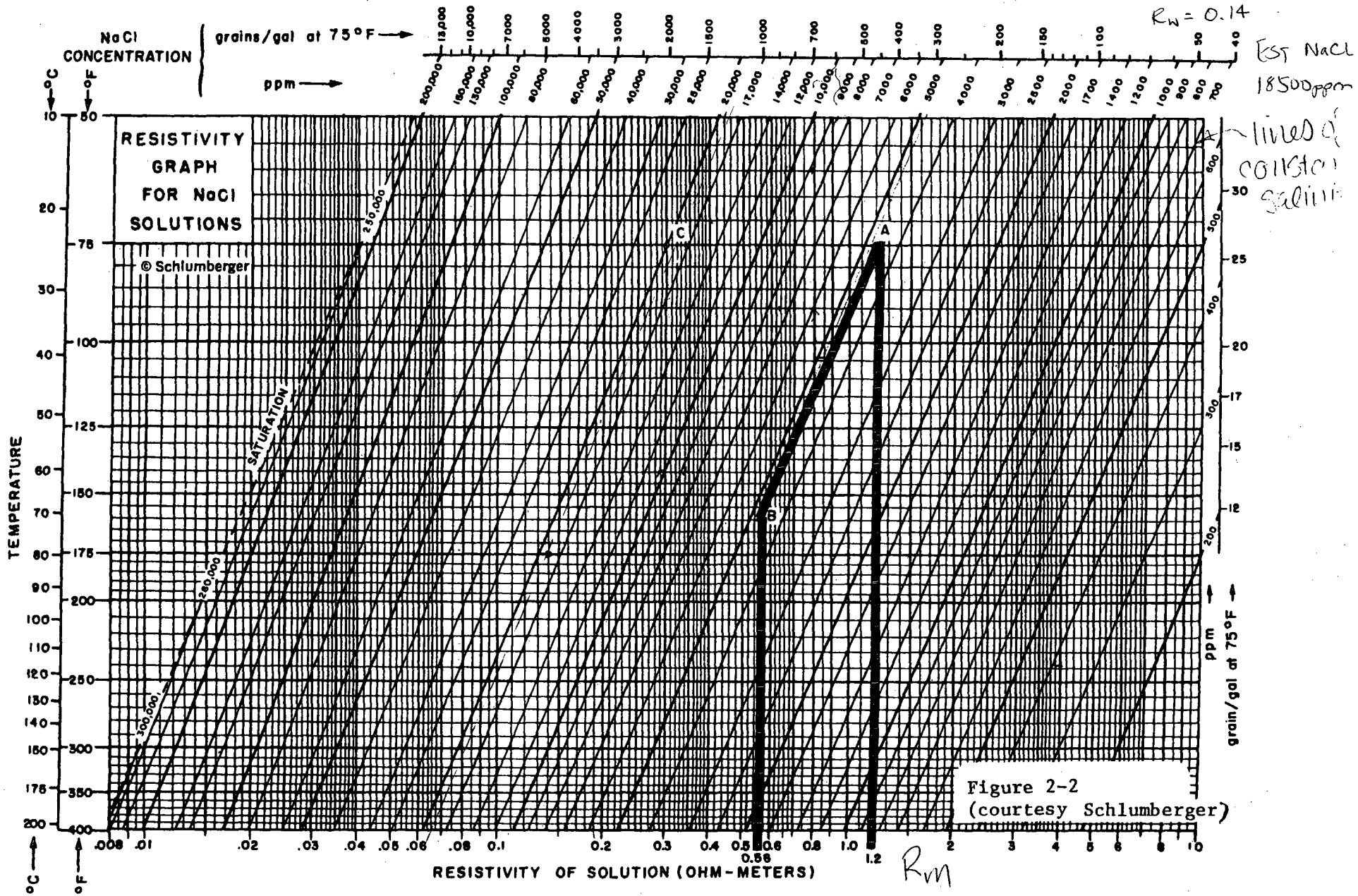


Figure 2-2
(courtesy Schlumberger)

Example: R_m is 1.2 at 75°F (point A on chart). Follow trend of slanting lines (constant salinities) to find R_m at other temperatures; for example, at Formation Temperature (FT) = 160°F (point B) read R_m = 0.56. The conversion shown in this chart is approximated by the Arps formula: $R_{FT} = R_{75°} \times (75° + 7)/(FT \text{ (in °F)} + 7)$.

ANALYSIS NO. 53-35-90

FIELD RECEIPT NO. _____

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Company: Merrion Oil & Gas			Sample No.	Date Sampled: 8-30-90
Field	Legal Description		County or Parish	State
Lease or Unit	Well: Santa Fe 20-3	Depth	Formation: Entrada	Water, B/D
Type of Water (Produced, Supply, etc.)	Sampling Point			Sampled By

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	4630	201.31
Calcium, Ca	60	3.10
Magnesium, Mg	13	1.10
Barium, Ba		
Potassium, K^+	11	.28

ANIONS		
Chloride, Cl	2009	56.66
Sulfate, SO_4	6218	129.33
Carbonate, CO_3	29	.96
Bicarbonate, HCO_3	1149	18.84
Hydroxyl, OH	0	0

Total Dissolved Solids (calc.) 14,115

Iron, Fe (total) trace 0.0 ppm

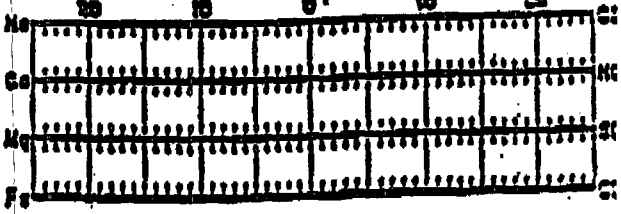
Sulfide, as H_2S pos.

OTHER PROPERTIES

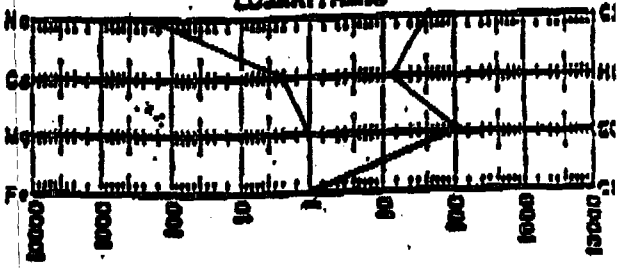
pH	8.46
Specific Gravity, 60/60 F.	1.010
Resistivity (ohm-meters) 76 F.	.93
Total hardness	210

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



REMARKS & RECOMMENDATIONS:

Rick Dean

ANALYST: Lee

THE WESTERN COMPANY OF NORTH AMERICA, FARMINGTON.
(505) 327-6222

Please refer any questions to: BRIAN AULT District Engineer

ANALYSIS NO. 91-13-91

FIELD RECEIPT NO. _____

API FORM 45-1

API WATER ANALYSIS REPORT FORM 1-28-91

Company	Sample No.	Date Sampled
Merrion Oil & Gas		

Field	Legal Description	County or Parish	State
	520 T21N R8W	San Juan	NM

Lease or Unit	Well	Depth	Formation	Water, B/D
Snake Eyes	#2	5200'	Entrada	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By
Produced		

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	3982	173.13
Calcium, Ca	641	32.00
Magnesium, Mg	151	12.40
Barium, Ba	—	—
Potassium, K^+	11	.28

ANIONS		
Chloride, Cl	1240	34.98
Sulfate, SO_4	8080	168.23
Carbonate, CO_3	36	1.20
Bicarbonate, HCO_3	817	13.40
OH	0	0

Total Dissolved Solids (calc.) 14,958

Iron, Fe (total) #, ## 0,0 ppm

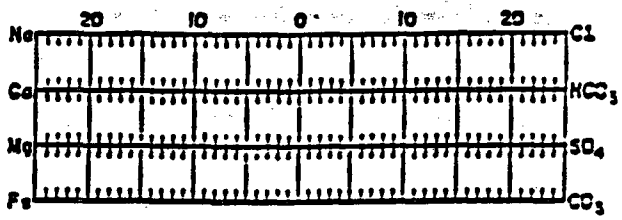
Sulfide, as H_2S pos.

OTHER PROPERTIES

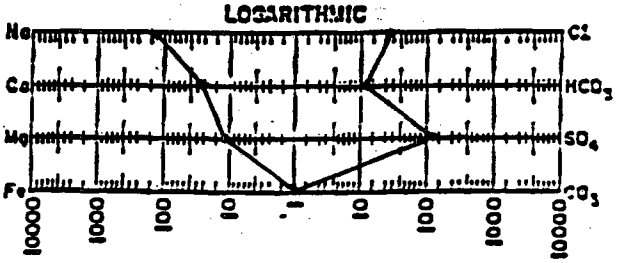
pH	8.00
Specific Gravity, 60/60 F.	1.008
Resistivity (ohm-meters) 70 F.	.95
Total hardness	2220

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



REMARKS & RECOMMENDATIONS:

ANALYST: LLee

THE WESTERN COMPANY OF
NORTH AMERICA, FARMINGTON, NM
(505) 327-6222

Please refer any questions to: BRIAN AULT , District Engineer

UNICHEM INTERNATIONAL
P.O. BOX 1499 707 NORTH LEECH STREET
HOBBS, NEW MEXICO 88240

Merrion Oil & Gas
Box 840
Farmington , NM 87499

Report Date: March 26, 1991
Lab In Date: March 14, 1991
Sample Date: March 7, 1991

Dear George Sharp

Listed below please find our water analysis report from MEU , #6 :

Specific Gravity:	1.012
Total Dissolved Solids:	16566
PH:	7.20
Ionic Strength:	.314

CATIONS:		mg/liter
Calcium:	(Ca++)	141
Magnesium:	(Mg++)	31
Sodium:	(Na+)	5765
Iron (Total)	(Fe++)	221.00
Barium	(Ba++)	.30
Manganese:	(Mn++)	0.00
Restivity:		
ANIONS:		
Bicarbonate:	(HCO3-)	488
Carbonate:	(CO3--)	0
Hydroxide:	(OH-)	0
Sulfate:	(SO4--)	4561
Chloride:	(Cl-)	5580
GASES:		
Carbon Dioxide:	(CO2)	0.0
Oxygen:	(O2)	******
Hydrogen Sulfide:	(H2S)	51.0

SCALE INDEX (Positive Value Indicates Scale Tendency) * indicates tests were not run.

Temperature		CaCO3 SI	CaSO4 SI
86F	30.0C	-.21	-18.35
104F	40.0C	.03	-18.90
122F	50.0C	.29	-18.87
140F	60.0C	.50	-18.32
168F	70.0C	.84	-16.66
176F	80.0C	1.17	-15.94

If you have any questions or require further information, please contact us.

Sincerely,

Sharon Wright
Laboratory Technician

cc: Tim Merillatt - Farmington
Steve Dunn - Farmington

bc: Don Bamert
Tom Moore

Water File

Unichem International

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Kirby Exploration
Date : 01-18-1988
Location: Media Entrada - Produced Water Tank (on 01-07-1988)

	Sample 1
Specific Gravity:	1.015
Total Dissolved Solids:	20597
pH:	7.31
IONIC STRENGTH:	0.392

CATIONS:		me/liter	mg/liter
Calcium	(Ca^{+2})	9.60	192
Magnesium	(Mg^{+2})	6.00	72.9
Sodium	(Na^{+1})	311	7160
Iron (total)	(Fe^{+2})	0.061	1.71
Barium	(Ba^{+2})	0.007	0.480
ANIONS:			
Bicarbonate	(HCO_3^{-1})	7.80	476
Carbonate	(CO_3^{-2})	0	0
Hydroxide	(OH^{-1})	0	0
Sulfate	(SO_4^{-2})	110	5300
Chloride	(Cl^{-1})	209	7400

SCALING INDEX (positive value indicates scale)

Temperature		Calcium Carbonate	Calcium Sulfate
86°F	30°C	-0.17	-16
120°F	49°C	0.73	-16

ANALYSIS NO. 51-20-91

FIELD RECEIPT NO. _____

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Company	Sample No.	Date Sampled
Merrion Oil & Gas		02-02-91

Field	Legal Description	County or Parish	State
	Sec 15, T19N, R3W	Sandoval	NM

Lease or Unit	Well	Depth	Formation	Water, B/D
Media Entrada	#6		Media Entrada	

Type of Water (Produced, Supply, etc.)	Sampling Point	Sampled By
Produced		

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	5955	258.91
Calcium, Ca	244	12.20
Magnesium, Mg	80	6.60
Barium, Ba	—	—
Potassium, K^+	21	.54

ANIONS		
Chloride, Cl	5835	164.59
Sulfate, SO_4	5050	105.14
Carbonate, CO_3	0	0
Bicarbonate, HCO_3	520	8.52
OH	0	0

Total Dissolved Solids (calc.) 17,705

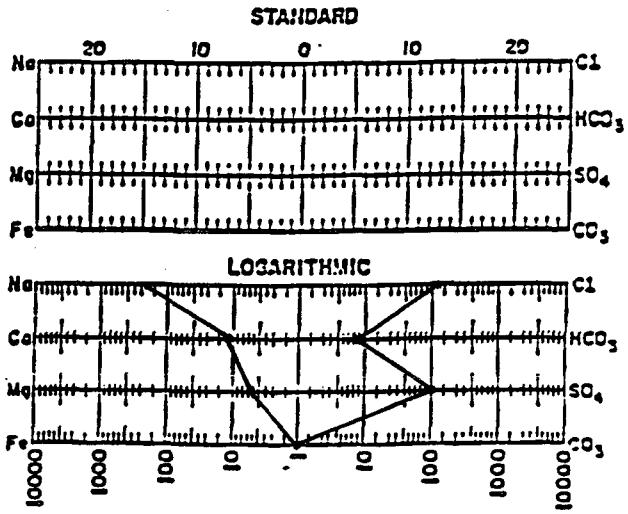
Iron, Fe (total) ~~#,##~~ 0.0 ppm

Sulfide, as H_2S pos.

OTHER PROPERTIES

pH	7.15
Specific Gravity, 60/60 F.	1.012
Resistivity (ohm-meters) 72 F.	.47
Total hardness	940

WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS:

ANALYST: LLee

THE WESTERN COMPANY OF
NORTH AMERICA, FARMINGTON. NM
(505) 327-6222

Please refer any questions to: **BRIAN AULT**, District Engineer

ANALYSIS NO. 07-07-90

API FORM 45-1

FIELD RECEIPT NO. _____

API WATER ANALYSIS REPORT FORM

Company		Sample No.	Date Sampled
Mernon Oil & Gas			07-28-90
Field	**Legal Description**	**County or Parish**	**State**
	Sec 20 T21N, R8W	San Juan	NM
Lease or Unit	**Well**	**Depth**	**Formation**	**Water, B/D**
	Santa Fe 20 #4		Entrada	
Type of Water (Produced, Supply, etc.)	**Sampling Point**		**Sampled By**

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	11,915	518.06
Calcium, Ca	60	2.99
Magnesium, Mg	15	1.23
Barium, Ba	—	—
Potassium, K^+	13	.33

ANIONS		
Chloride, Cl	2473	69.76
Sulfate, SO_4	20,790	432.85
Carbonate, CO_3	24	.80
Bicarbonate, HCO_3	1171	19.20
OH	0	0

Total Dissolved Solids (calc.) 36,461

Iron, Fe (total) ~~ppm~~ 0.0 ppm

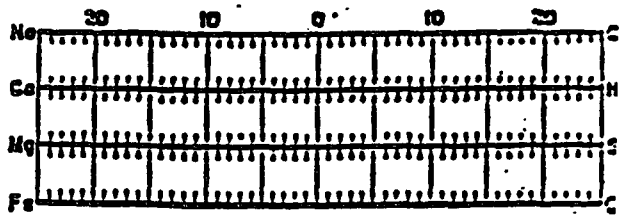
Sulfide, as H_2S pos

OTHER PROPERTIES

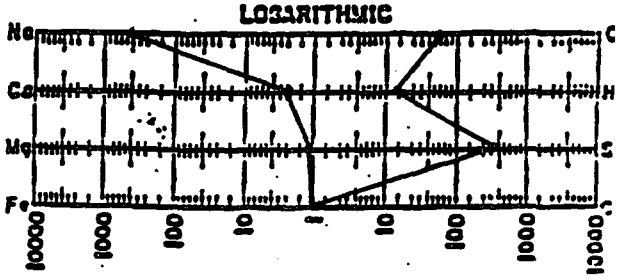
pH	8.15
Specific Gravity, 60/60 F.	1.00
Resistivity (ohm-meters) 70 F.	1.05
Total hardness	210

WATER PATTERNS — me/l

STANDARD



LOGARITHMIC



REMARKS & RECOMMENDATIONS:

DO NOT USE FOR GEL WATER FRAC'S

ANALYST: LLee

THE WESTERN COMPANY OF NORTH AMERICA, FARMINGTON
(505) 327-6222

Please refer any questions to: BRIAN AULT District Engineer

Section VIII
Geologic Data

Merrion Oil & Gas

VIII. Geological Information

A. The proposed injection zones are the Morrison and the Entrada.
   a. Morrison - The Morrison is not generally a productive oil and gas bearing zone in the San Juan Basin. It is an upper Jurassic, fluvial and lacustrine rock. The Morrison lies below the Burro Canyon Formation, the lowest member of the Cretaceous Dakota Sandstone. Most Dakota gas wells are not drilled into the Burro Canyon because it is typically wet. The Morrison is also usually water saturated. The salinity of the water is about the same as that of the overlying Dakota formation, or roughly 15,000 to 30,000 ppm TDS. The Todilto Limestone lies below the Morrison. It is not an oil or gas bearing zone. The Morrison in this area is about 700' thick. The zone of interest for injection is near the lower part of the interval from 7384' to 7504'. There should be no interference with oil and gas production or fresh water contamination from water disposal at this depth.
   b. Entrada - The Entrada sandstone lies directly beneath the Todilto Limestone. The nearest oil production in the Entrada is from the Leggs Entrada field about 50 miles south-southwest of Farmington. The Entrada consists of eolian dune sands deposited during the Jurassic period. In productive areas, the Entrada has a strong water drive. It may produce several hundred barrels of water per barrel of oil. The salinity of the water varies across the San Juan Basin. Representative water samples from Entrada producing wells are attached. They range from 14,114 ppm TDS to 36,461 ppm TDS. The Entrada is over 1000' thick in many areas. The area of interest for injection in the Pretty Lady is about 150' thick at a depth of 7650' to 7820'.
   c. MOG is considering a third possible injection zone that is not being submitted for consideration in this application in the interest of time. It is the Mesaverde formation. While this is a productive formation in many areas of the basin, it is not productive in this area. MOG has Mesaverde producing wells in section 5, T29N, R11W with a TDS of 24,000 ppm and in section 36 of T30N, R12W with a TDS of 33,900 ppm. This indicates that the Mesaverde in this area has high salinity, and would be a good candidate for SWD.

B. Water Bearing Zones
   a. Underlying the Proposed Injection Zones: There are no known fresh water formations underlying the injection zones. This well was extremely unusual for the San Juan Basin. It was drilled as a test for production below the lowest known producing formations in the basin. No fresh water was encountered below the Entrada according to information provided by Huntington, the operator who originally drilled the well.

b. Overlying the Proposed Injection Zones: A search of the records from the Office of the State Engineer resulted in two possible water wells within the area of review. However, neither permit application on record resulted water production for domestic use. The MOG Production Foreman surveyed the area and spoke to surrounding residents who confirmed that there were no domestic water wells within the area of review. Some productive zones above the Morrison contain produced water with 10,000 ppm TDS or less. The only formation of concern would be the Ojo Alamo, which is typically a fresh water aquifer. It is separated by the injection formation by several thousand feet of rock in a wellbore that has been cased and cemented to surface, so it would be well protected from any injected fluids.

Section IX
Stimulation Design

Merrion Oil & Gas

Pretty Lady 30-11-34 Proposed Stimulation Procedure

The subject well will be stimulated in two stages with a spearhead of 15% HCL and frac'd w/ cross linked borate gel and 20/40 mesh sand as follows:

Entrada

Pad Stg 1	21500 gal 20# xlink borate gel	No Sand
Stg 2	5000 gal 20# xlink borate gel	0.5 ppg
Stg 3	10000 gal 20# xlink borate gel	1.0 ppg
Stg 4	16750 gal 20# xlink borate gel	2.0 ppg
Stg 5	18000 gal 20# xlink borate gel	3.0 ppg
Flush Stg 6	2722 gal Linear gel w/ breaker	No Sand

Total - 1761 Bbls Fluid 100,000 # proppant at 25 BPM

Morrison

Pad Stg 1	21500 gal 20# xlink borate gel	No Sand
Stg 2	5000 gal 20# xlink borate gel	0.5 ppg
Stg 3	10000 gal 20# xlink borate gel	1.0 ppg
Stg 4	16750 gal 20# xlink borate gel	2.0 ppg
Stg 5	18000 gal 20# xlink borate gel	3.0 ppg
Flush Stg 6	2722 gal Linear gel w/ breaker	No Sand

Total - 1761 Bbls Fluid 100,000 # proppant at 25 BPM

This is the preliminary design for the stimulation. It may change as the project proceeds.

Section XI
State Engineer Office Data

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

AFFIDAVIT OF RESPONSIBILITY
CONVERSION TO WATER-WELL

STATE OF New Mexico)
County of San Juan)ss.

B. W. Stiles, being first duly sworn according to law, upon his oath deposes and says:

1. That he is Owner (Title) of B. W. Stiles (Operator) whose address is P.O. Box 127, Aztec, New Mexico 87410.

2. That B. W. Stiles (Operator) is the operator of a well drilled on land belonging to Lee M. Crane (Landowner), whose address is Aztec, New Mexico, said well being drilled to test for hydrocarbons and/or carbon dioxide gas and described as the Martin No. 2, being located 990 feet from the South line and 2310 feet from the West line of Section 34, Township 30 North, Range 11 West, NMPM, _____ County, New Mexico.

3. That said well was drilled to a total depth of 1370 feet, and that casing has been set and cemented as follows:

8-5/8" Surface Casing set at 100 feet w/50 sacks
5-1/2" Casing set at 849 feet w/75 sacks

4. That operator and landowner have made an agreement whereby operator (is) (is not) to back fill pits, level location, and clear it of all junk. The agreement further provides that operator is to plug said well back to a plugged-back total depth of _____ feet and transfer well to landowner for his use as a water-well. Operator will leave casing in the well as follows:

5. That when operator has complied with the provisions of Paragraph 4 above it will so notify the Oil Conservation Commission of the State of New Mexico on Commission Form C-103, together with a signed statement from the landowner that the provisions of Paragraph 4 above have been complied with to his satisfaction.

B. W. Stiles (Operator)

By B. W. Stiles

Subscribed and sworn to before me this 23 day of August, A. D. 19 76.

My Commission Expires _____, 19__

Ethel E. Norman
Notary Public in and for the County of San Juan

STATE OF New Mexico)
County of San Juan)ss.

Lee M. Crane, being first duly sworn according to law, upon his oath deposes and says that when the provisions of Paragraphs 4 and 5 above have been complied with, he will accept the above-described well for his use as a water-well, and that he will assume all responsibility for the well, the location, and the conversion of the well to a water-well.

Lee M. Crane (Landowner)

Subscribed and sworn to before me this 26th day of Aug., A. D. 19 76.

Mabel D. Lester
Notary Public in and for the County of San Juan

My Comm expires 7-15-79

New Mexico Office of the State Engineer
Water Right Summary

Back

DB File Nbr: SJ 01995
Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD
Primary Status: PMT Permit
Total Acres: 0
Total Diversion: 3
Owner: RAYMOND DETTERRERA

Documents on File

Doc	File/Act	Status 1 2 3	Trans_Desc	From/To	Acres	Diversion	Co
72121	08/26/1985	PMT APR ABS	SJ 01995	T	0	3	

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion POD Number	Source	Tws	Rng	Sec	q	q	q	X Y are in Feet Zone	X	Y	UTM a UTM_Z
SJ 01995		29N	11W	03	2	3					13

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 29N Range: 11W Sections: 3

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) ○Non-Domestic ○Domestic
◉All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report

Clear Form | iWATERS Menu | Help

AVERAGE DEPTH OF WATER REPORT 04/10/2006

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet) Min	Max	Avg

No Records found, try again

XII
USDW Protection Statement

MERRION
OIL & GAS

May 25, 2006

I have examined the available geologic and engineering data for the Pretty Lady 30-11-34 SWD project, and from this data, I have found no evidence of faults, or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

Connie Dinning, Production Engineer

610 Reilly Avenue • Farmington, NM 87401 • main 505-324-5300 • fax 505-324-5350

Merrion Oil & Gas

Pretty Lady 30-11-34

Area of Review

0 1,102 2,204

FEET

POSTED WELL DATA

Well Name

Well Number

April 21, 2006

MURPHY D 4A

MURPHY D 4

MURPHY D 1R

FOGELSON 1

PAYNE 1

FORREST FOGELSON GAS COM 3E

PAYNE COM 1B

MURPHY D 1

MURPHY D 2

SANGRE DE CRISTO STONE 5

OSWELL 1

OSWELL 4

MURPHY 2

MUPHY 1

BLOOMFIELD CANYON 1

FORREST 1

WOOD 2

MURPHY-E 3

SANGRE DE CRISTO 6

SANGRE DE CRISTO 1

FEDERAL 2

FEDERAL-D 1

OSWELL 7

OSWELL 5

33

34

OSWELL 2

35

MARTIN 3

MARTIN 3

PRETTY LADY 30-11 34-1

MARTIN 2

FORREST 4

FEDERAL 1

MURPHY-E 5

MARTIN 1

MARTIN 1

M LUTHER 1

MARTIN 2

MARTIN 2

MARTIN 2

MARTIN 2

MARTIN 1R

MARTIN 3

MARTIN 4

GODRUM 1

FOGELSON 1

PAYN 2

GOVT 1

MARTIN 4R

ELGIN 1

MARTIN P U 4

MCCLURE 1S

MARTIN Y 3R

MURPHY A 2

FOGELSON 4 1E

MORTON 1

MARTIN P U 3

FEDERAL-E 1

MURPH 3

4

DISPOSAL 1

3

2

MARTIN-A 1

OSWELL 1

MURPHY A COM 1

FOGELSON 4 1

MCCLURE 1

LLOYD A

PETRA 4/21/2006 9:21:38 AM

Merrion Oil & Gas

Pretty Lady 30-11-34

Area of Review

0 2,564 5,128

FEET

POSTED WELL DATA

Well Name

Well Number

April 21, 2006

29N 11W

PETRA 4/21/2006 9:20:02 AM

APPLICATION FOR AUTHORIZATION TO INJECT, SECTION VI

Pretty Lady 30 11 34, Converted Salt Water Disposal Well		
Operators Within Area of Review		
V.		
The operators listed below have leasehold interests within a one half mile radius of the subject well.		
Operator	***Address***	***City, State***
Conoco Phillips (Burlington Resources)	P.O. Box 4289	Farmington, NM 87499
Conoco Phillips Company	P.O. Box 2197, WL3 4066	Houston, TX 77252
Energen Resources	2198 Bloomfield Hwy	Farmington, NM 87401
Crane, Lee M.	P.O. Box 516	Aztec, NM 87410
Jakie Moss (Surface Owner, participant in project)	P.O. Box 343	Flora Vista, NM 87415

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, June 05, 2006 3:30 PM
To: 'Connie Dinning'
Cc: Ezeanyim, Richard, EMNRD; Sanchez, Daniel J., EMNRD; Hayden, Steven, EMNRD
Subject: SWD Application: Pretty Lady 30-11-343 #1 API No. 30-045-30922

Hello Ms. Dinning:
The Division received your application on 30 May 2006 and after reviewing have the following requests:

1) Before and after wellbore diagrams
2) Notification package still not received.

Congratulations in finding such a large diameter, deep wellbore for this purpose.

Regards,

William V. Jones Engineering Bureau Oil Conservation Division Santa Fe

MERRION OIL & GAS
610 REILLY AVE.
FARMINGTON, NM 87499
(505) 324-5300 FAX (505) 324-5350

FAX

DATE: June 13, 2006

TO:	Will Jones **NMOCD**	**PHONE:** **FAX:**	505.476.3448 505.476.3462
FROM: **Email:**	Connie Dinning cdinning@merrion.bz	**PHONE:** **FAX:**	505.324.5326 505.324.5350

RE: Proof of Notice

CC: Steve Dunn

Number of pages including cover sheet: 3

Message

I first emailed this to you on 6/8/06, then I realized it didn't send, and I emailed it again today, and it failed again. So... here is the proof of notice info. If you need anything further, please let me know.
Thanks
Connie

Connie for Copy for your info

Advertising Receipt

The Daily Times
PO Box 450
Farmington, NM 87499
Phone: (505) 325-4545
Fax: (505) 564-4580

SANDY OSBORNE
MERRION OIL & GAS
610 REILLY AVENUE
FARMINGTON, NM 87401

Cust#: 08108318-000
Ad#: 05539550
Phone: (505)324-5300
Date: 05/25/06

Ad taker: DH Salesperson: Classification: 989

Description	Start	Stop	Ins.	Cost/Day	Surcharges	Total
01 Daily Times	06/04/06	06/04/06	1	29.25		29.25
COMMERCIAL INT.						3.00
Affidavits (2)						14.00

Payment Reference:

Total:	46.25
Tax:	3.24
Net:	49.49
Prepaid:	0.00
Total Due	49.49

PUBLIC NOTICE

Merrion Oil & Gas
610 Reilly Avenue
Farmington, NM 87401
Attn: Connie Dinning

Merrion Oil & Gas proposes to install commercial produced water disposal facilities at the Pretty Lady 30-11-34 No. 1.

The facility will dispose of produced water by offloading into closed top tanks and injecting into the Pretty Lady 30-11-34 No. 1.

Well Location: 1760' fsl & 1475' fel, Section 34, T30N, R11W, San Juan County, NM.
Formation Name & Depth: Morrison/Entrada, 7384' - 7815'.
Max Injection Rate: 12,000 BWPD

918 Legals

PUBLIC NOTICE

Merrion Oil & Gas
610 Reilly Avenue
Farmington, NM 87401
Attn: Connie Dinning

Merrion Oil & Gas proposes to install commercial produced water disposal facilities at the Pretty Lady 30-11-34 No. 1.

The facility will dispose of produced water by offloading into closed top tanks and injecting into the Pretty Lady 30-11-34 No. 1.

Well Location: 1760' fsl & 1475' fel, Section 34, T30N, R11W, San Juan County, NM.
Formation Name & Depth: Morrison/Entrada, 7384'-7815'.
Max Injection Rate: 12,000 BWPD
Max Injection Pressure: 1477 psi

Interested parties must file objections or request for hearing with the Oil Conservation Division, 1200 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days of this notice.

Legal No. 53524 published in The Daily Times, Farmington, New Mexico on Sunday, June 4, 2006.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Jakie Moss
P. O. Box 343
Flora Vista, NM 87415

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Mary Burl Moss C. Date of Delivery 5-19-06

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0002 8596 0836

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Lee M. Crane
P. O. Box 516
Aztec, NM 87410

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Ruth Kendrick C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0002 8596 0881

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Energen Resources
2198 Bloomfield Highway
Farmington, NM 87401

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature]

B. Received by (Printed Name) T. McAndrews C. D

D. Is delivery address different from item 1?
If YES, enter delivery address below:

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

2. Article Number (Transfer from service label) 7005 1820 0002 8596 0874

PS Form 3811, February 2004 Domestic Return Receipt 1

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
ConocoPhillips (Burlington)
P. O. Box 4289
Farmington, NM 87499

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[signature]

B. Received by (Printed Name) C.

D. Is delivery address different from item 1?
If YES, enter delivery address below:

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

2. Article Number (Transfer from service label) 7005 1820 0002 8596 0973

PS Form 3811, February 2004 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
ConocoPhillips Company
P. O. Box 2197, WL3 4066
Houston, TX 77252

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature]

B. Received by (Printed Name) C.

D. Is delivery address different from item 1?
If YES, enter delivery address below:

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

2. Article Number (Transfer from service label) 7005 1820 0002 8596 0867

PS Form 3811, February 2004 Domestic Return Receipt

Injection Permit Checklist

SWD Order Number _____ Dates: Division Approved _____ District Approved _____

Information Request Letter or Email sent 6/5/06

Well Name/Num: Pretty Lady 30-11-34 #1 Date Spudded: 1034

API Num: (30-) 045-30922 County: San Juan

Footages 1760 FSL 1475 FEL Sec 34 Tsp 30N Rge 11W

Operator Name: Merrion Oil & Gas Corporation Contact Connie S. Dinning

Operator Address: 610 Reilly Ave, Farmington, NM 87401

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	17 1/2 13 3/8		500	Surf.
Intermediate				
Production	12 1/4 9 5/8	8104'	2300	CURF
Last DV Tool				
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion NO IC After Conversion NO OK

7" TUBING !!

Checks (Y/N): Well File Reviewed ✓ ELogs in Imaging _____

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
Cliff House, Etc:			
Formation Above	6500-6680	DKTA	
Top Inj Interval	7384	Morrison	
Bottom Inj Interval	7815	Entrada	
Formation Below			

1477 PSI Max. WHIP

NO Open Hole (Y/N)

NO Deviated Hole (Y/N)

Fresh Water Site Exists (Y/N) None Analysis Included (Y/N): _____

Salt Water Analysis: Injection Zone (Y/N/NA) N/A (Estimated) Disposal Waters (Y/N/NA) ✓ Types: PC/PLO, Gallup/DKTA

Affirmative Statement Included (Y/N): ✓ Newspaper Notice Adequate (Y/N) ___ Well Table Adequate (Y/N) yes

Surface Owner Jakie Moss Noticed (Y/N) ___ Mineral Owner(s) _____

AOR Owners: List included BUT NOT CERT. Receipts Noticed (Y/N) ✓ OK

CID/Potash/Etc Owners: X X Noticed (Y/N) ___

AOR Num Active Wells 0 Repairs? — Producing in Injection Interval in AOR NO

AOR Num of P&A Wells 0 Repairs? — Diagrams Included? —

Data to Generate New AOR Table _____ New Table Generated? (Y/N)

	STR	E-W Footages	N-S Footages
Wellsite			
Northeast			
North			
Northwest			
West			
Southwest			
South			
Southeast			
East			

Conditions of Approval:

1. PB TO ≈ 300' of Lower Perf.
2. _____
3. _____
4. _____

RBDMS Updated (Y/N) _____

UIC Form Completed (Y/N) _____

This Form completed _____