

CHECKLIST for ADMINISTRATIVE INJECTION APPLICATIONS

Operator: POLE STAR 3WD LTD., Co. Well: CHRISTIAN No. 3
Contact: ROYCE CROWELL Title: MANAGING PARTNER Phone: 505 394-2504
DATE IN 8-23-95 RELEASE DATE 9-6-95 DATE OUT 9-13-95

Proposed Injection Application is for: ☐ WATERFLOOD ☐ Expansion ☐ Initial

Original Order: ☒ R- ☐ Secondary Recovery ☐ Pressure Maintenance

☒ SENSITIVE AREAS

☒ SALT WATER DISPOSAL

☒ WIPP ☐ Capitan Reef

☒ Commercial Operation

Data is complete for proposed well(s)? YES Additional Data _____

AREA of REVIEW WELLS

4 Total # of AOR

2 # of Plugged Wells

☒ Tabulation Complete

☒ Schematics of P & A's

☒ Cement Tops Adequate

NO AOR Repair Required

INJECTION INFORMATION

Injection Formation(s) SAN ANDRES

Source of Water AREA PRODUCTION Compatible YES

PROOF OF NOTICE

☒ Copy of Legal Notice

☒ Information Printed Correctly

☒ Correct Operators

☒ Copies of Certified Mail Receipts

NO Objection Received

☐ Set to Hearing _____ Date

NOTES: _____

APPLICATION QUALIFIES FOR ADMINISTRATIVE APPROVAL YES

COMMUNICATION WITH CONTACT PERSON:

1st Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion	_____
2nd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion	_____
3rd Contact:	<input type="checkbox"/> Telephoned	<input type="checkbox"/> Letter	_____ Date	Nature of Discussion	_____



swd 7.6.75

606

Oil Conservation Division

March 2 1982

GOLD STAR SWD LTD. CO

**(505) 394-2504 FAX (505) 394-2560 801 MAIN P.O. BOX 1480
BUNICE, NEW MEXICO 88231**

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Re: Request for Administrative Approval
For Salt Water Disposal Well
Located in the Northwest quarter of
The Northeast quarter of Sec. 28,
T-22-S, R-37-E of Lea County,
New Mexico

Gentlemen:

Enclosed are various documents to support our request for your Administrative Approval for a salt water disposal well to be located 330' FNL and 2310' FEL of Section 28, Township 22 South, Range 37 East, Lea County, New Mexico. We are submitting your form C-108 and the data requested by this form.

The data requested by C-108 item III is supplied Well Data Sheets. The proposed SWD well is presently a shut-in producing well. The well was originally drilled by Repollo Oil Company on March 8, 1938. In May 1957, the well was deepened to 6796' and a 5" OD liner was set from 2992' to 6796' and cemented used 450 sacks of cement. It was perforated from 6443' to 6549' to produce the Drinkard formation. In 1973 additional perforations from 6150' to 6280' were added in the Drinkard formation. Later, a CIBP was set at 6110' and perforations were added from 5678' to 6002'. Following stimulation and testing, no commercial production was obtained. A CIBP was set at 4300' and the San Andres was perforated from 3905' to 4140'. After acidizing, the San Andres only produced water. It is now proposed to drill out the CIBP at 4300' and clean out to 6002' and test the well for injection capacity. It is then proposed to run a Baker model AD-1 plastic coated tension packer on 2 3/8" OD EUE 8R plastic coated tubing and set the packer in the 5" OD liner at approximately 3850'. The annular space between the tubing and casing will be filled with chemically treated fluid from the packer to the surface. The well will then be equipped with surface equipment and be placed on disposal status.



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C-108 item V requested a map identifying all wells, leases and operators within two miles of the disposal well. A circle one-half mile in radius has been drawn to identify the Area of Review for the disposal well.

C-108 item VI requested data on all wells within the Area of Review which penetrated the zone of injection. A total of four (4) wells penetrated the San Andres in the Area of Review. A Well Data Sheet has been prepared for each of these wells. It appears that fourteen (14) wells were drilled into the Queen but never penetrated into the San Andres. Well Data Sheets were not prepared for these wells.

C-108 item VII requested several items of information. The beginning daily rate of injection will be approximately 1000 BWPD. As additional trucking customers are obtained, the anticipated maximum daily rate may be 3,000 BWPD. The system will be designed as a closed system. The beginning injection pressure is expected to be a vacuum and maximum injection pressure is expected to be 750 psi. The sources of water to be injected will include water from the Queen, Grayburg, San Andres, Paddock, Blinbry, Tubb and Drinkard formations. Water analyses from the Grayburg, San Andres, Paddock, Blinbry, Tubb and Drinkard formations have not been enclosed. These same formation waters are being mixed in disposal wells throughout southeast Lea County and no undue problems have been encountered. Some calcium carbonate scale may be formed but it would be readily removed by HCL acid. Analysis from the Christmas #3 well is attached.

C-108 item VIII requests several geological data. The San Andres formation is a rather thick, predominately lime formation with some sandy dolomite stringers in the upper 350 feet. Overall the formation is approximately 1200 feet thick extending from approximately 3900 feet to its base at approximately 5100 feet. The San Andres is oil and gas productive to the North and West with no well being less than one mile away.

This well was tested through perforation from 3905' to 4140' and it only produced water. The San Andres is a strong water drive formation. It is our plan to inject below a depth of 3905', therefore, we will be injecting into a zone which is already all water. The only known fresh water zones overlaying this area occur between the surface and 150 feet. Fresh water is very spotty and not very prolific in this area.



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C-108 item IX requests information concerning stimulation. The only stimulation needed would be approximately 1,000 gallons of acid to clean up possible wellbore damage.

For C-108 item X electric logs and well completion reports were submitted when the well was originally drilled.

For C-108 item XI two chemical analyses for fresh water is enclosed. The analysis titled Texaco (Able Place) is from a fresh water well located in Unit P, Sec. 21, T-22-S, R-37-E. The analysis titled Terry Estate is from a fresh water well located in Unit D, Sec. 34, T-22-S, R-37-E.

I, Royce Crowell, Managing Member of Gold Star SWD Ltd. Co. certify that I have examined extensive available geological and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone, which is between 3905' and 6002' and any underground source of drinking water which would be between 100' and 500' from the surface.

C-108 item XIV - Proof of Notice. The surface owner for the disposal well location is the Millard Deck Estate. The oil and gas leasehold operators within the Area of Review includes Chevron U.S.A., P.O. Box 1150, Midland, Texas 79702, Anadarko Petroleum Corporation, P.O. Box 2497, Midland, Texas 79702 and Arch Petroleum, Inc., 10 Desta Drive, Suite 420 E, Midland, Texas 79705. These have all been notified of our application, as evidenced by the Certified Mailing receipts. A copy of the legal advertisement in the Hobbs News-Sun is enclosed for your information. This legal advertisement was published in the 8-18-85 edition.

If there is any additional information that you need, please contact us and we will be happy to supply any information that is available.

Sincerely,

Royce Crowell
Managing Member

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Gold Star SWD Ltd. Co.
Address: P.O. Box 1480, Eunice, New Mexico 88231
Contact party: Royce Crowell, Managing Member Phone: 505-394-2504
- 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.
- * VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification

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

Name: Royce Crowell Title Managing Member

Signature: Royce Crowell Date: August 15, 1995

- * 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.

Gold Star SWD LTD. Co.
Application For SWD Well
Christmas No. 3
NW-NE Sec. 28, T22S, R37E
Lea County, New Mexico

INJECTION WELL DATA SHEET

Anadarko Petroleum Corporation Langlie Mattix Penrose Sand Unit Tract 25

OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
2	1650' FNL and 330' FEL	28	22 South	37 East

SchematicTabular DataSurface Casing

Size 13" Depth 237' Cemented with 200 ex.
 TOC Surface * feet determined by Calculated
 Hole size 15 1/2"

Intermediate Casing

Size 8 5/8" Depth 1169' Cemented with 250 ex.
 TOC Surface * feet determined by Calculated
 Hole size 10"

Long string

Size 7" Depth 3350' Cemented with 200 ex.
 TOC 1902 * feet determined by Calculated
 Hole size 8 1/4"

Total depth 4073' Elevation 3344' GL

Open Hole: From 3344' To 4073'

Stimulation: Shot with Nitro from 3455' to 3692'.

13" @ 237'

8 5/8" @ 1169'

4047' to 4073' reported making 7 bailers of water in 6 hours.

PB 8/37 from 4073' to 3692' using gravel, cement & lead wool.

After PB reported 24 BOPD & 0 BWPD.

Recompleted as WIW 2-12-70.

2/95 WI Rate 103 BPD.

WI Pressure 1850 PSI.

Cum WI 1,257,746 Bbls.

* TOC Calculations based on 75% efficiency.

7" @ 3344'

PB 3692'

T D 4073'

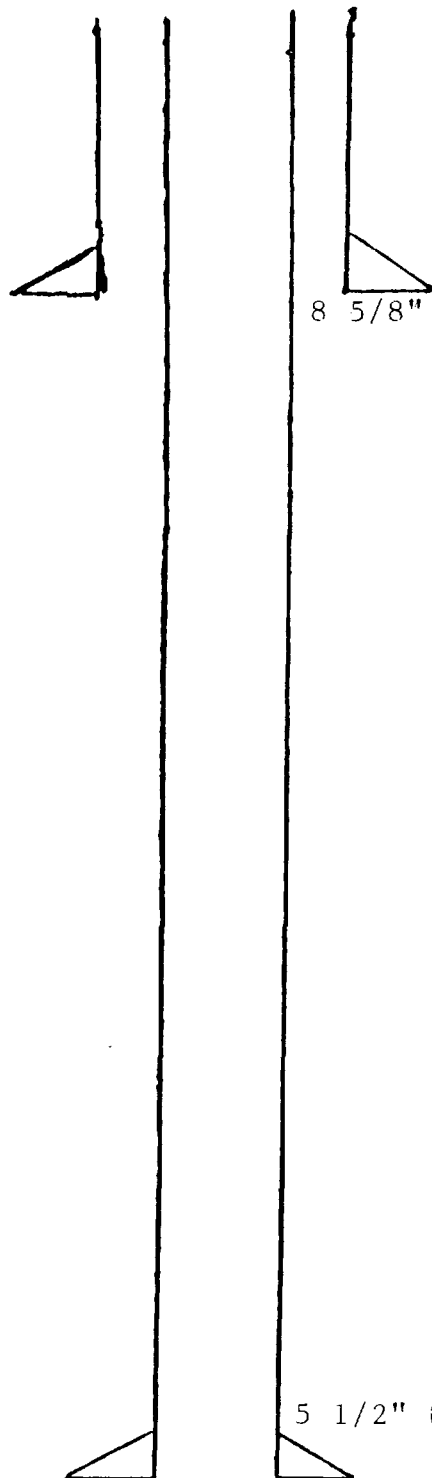
Arch Petroleum, Inc.

Manda

OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
1	860' ESL and 1830' FWL	21	22 South	37 East

Schematic

5 1/2" @ 6700'

Total Depth 6700'

Tabular DataSurface CasingSize 8 5/8" Depth 1168 ' Cemented with 450 sx.TOC Surface _____ feet determined by CirculatedHole size 12 1/4"Intermediate CasingSize None " Depth _____ ' Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 5 1/2" Depth 6700 ' Cemented with 2125 sx.TOC Surface _____ feet determined by CirculatedHole size 7 7/8"Total depth 6700 ' Elevation 3348 'GLPerforations: From 6435 ' To 6568 'Stimulation: 2,000 GA + 7,000 GGW with 1/2# to
2 1/2# SPGInitial potential 67 BOPD, 12 BWPD,Gas TSTMDrilling Completed 2-24-77.

OPERATOR

LEASE

Gulf Oil Corporation

A.L. Christmas

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

1

1780' FNL and 1980' FNL

28

22 South

37 East

SchematicTabular DataSurface Casing

Size 8 5/8" Depth 1160 ' Cemented with 50Q
 TOC Surface feet determined by Circulated
 Hole size 12 1/2"

Intermediate Casing

Size None " Depth ' Cemented with
 TOC feet determined by
 Hole size

Long string

Size 5 1/2" " Depth 6699 ' Cemented with 1925
 TOC Surface feet determined by Circulated
 Hole size 7 5/8"

Total depth 6700 ' Elevation 3350 ' GL
 Production Interval: From * ' To '

Plugging Operations:

Surface casing pulled: Size Amount 0
 Top of stub '

Long String Casing pulled: Size " Amount 0
 Top of stub '

Cement plugs:

1.	Amount	10	sx	From	5075	To	5175
2.	Amount	10	sx	From	3872	To	3972
3.	Amount	10	sx	From	3366	To	3466
4.	Amount	20	sx	From	2346	To	2546
5.	Amount	20	sx	From	1100	To	1300
6.	Amount	60	sx	From	Surface	To	

Bridge plug Set: Type ** Depth

Fluid in Hole P & A Mud

* Drinkard 6458' - 6575'
 Tubb 6108' - 6265'
 Blinbry 5489' - 5907'
 Paddock 5123' - 5309'

** CIBP @ 6390' with 35' Cement
 CIBP @ 6050' with 35' Cement
 CIBP @ 5467' with 35' Cement

Drilling Completed 2-15-77.

8 5/8"@1160'

5 1/2"@6699'

Total Depth 6700'

OPERATOR

LEASE

Chevron U.S.A., Inc.

Manda "B" Tract "C"

WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE

1

430' FNL and 1980' FWL

28

22 South

37 East

Schematic

Tabular Data

Surface Casing

Size 8 5/8 " Depth 1165 ' Cemented with 500

TOC Surface feet determined by Circulated

Hole size 11"

Intermediate Casing

Size None " Depth ' Cemented with

TOC feet determined by

Hole size

Long string

Size 5 1/2" " Depth 6699 ' Cemented with 2300

TOC Surface feet determined by Circulated

Hole size 7 7/8"

Total depth 6700' Elevation 3351 GL

Production Interval: From * ' To '

Plugging Operations:

Surface casing pulled: Size Amount 0

Top of stub '

Long String Casing pulled: Size " Amount 0

Top of stub '

Cement plugs:

1. Amount 465 sx From 2762 ' To 6561'

2. Amount 30 sx From 1086 ' To 1200'

3. Amount 19 sx From 945 ' To 1086'

4. Amount sx From ' To

5. Amount sx From ' To

6. Amount sx From ' To

Bridge plug Set: Type CIBP Depth 6350'

Fluid in Hole P & A Mud

CIRC @ 2762'

CIRC @ 1086'

* Blinebry 5462' - 5782'

Tubb 6005' - 6265'

Drinkard 6402' - 6561'

Total Depth 6700'

Drilling Completed 5-21-76.

5 1/2"@6699'

8 5/8"@1165'

DISPOSAL WELL DATA SHEET

Application For Administrative Approval For A SWD Well

OPERATOR

LEASE

WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
3	330' FNL and 2310' FEL	28	22 South	37 East

SchematicTabular DataSurface Casing

Size 13"-40# " Cemented with 200 sx.
 TOC Surface feet determined by * Calculated
 Hole size 15 1/2" Csg. set at 260'

Intermediate Casing

Size 8 5/8"-28 " Cemented with 200 sx.
 TOC 94' feet determined by * Calculated
 Hole size 10" Csg. set at 1167'

Long string

Size 7"-24# " Cemented with 250 sx.
 TOC 1330' feet determined by * Calculated
 Hole size 8 1/4" Csg. set at 3133'

Total depth 6797' Elevation 3343'

Injection interval

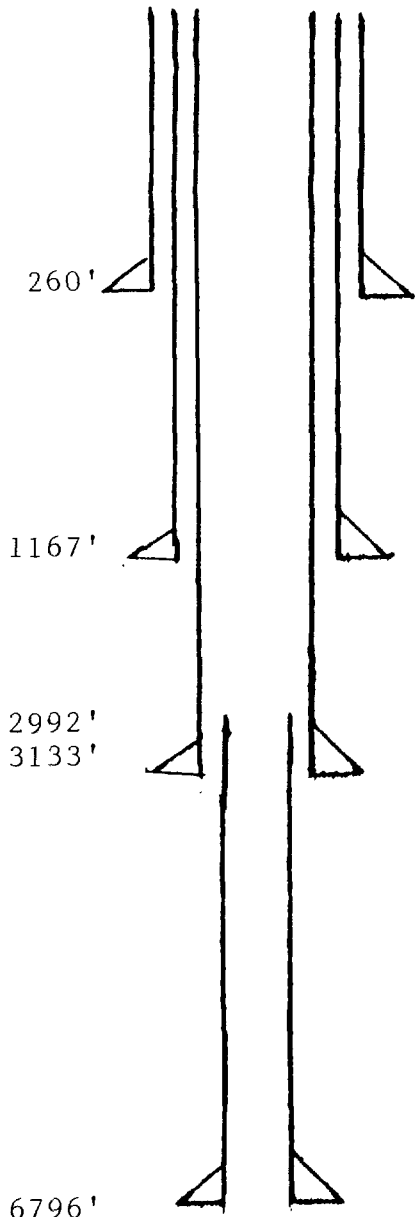
3905' feet to 6002' feet Perforated
 (perforated or open-hole, indicate which)

* Cement fill based on 75% efficiency

Liner

Size 5" OD Cemented with 450 sxs
 TOC 2992' TOC determined by Circulated
 Hole size 6 1/4" Csg. set at 6796'
 Total depth 6797' Elevation 3343'

* Cement fill based on 75% fill efficiency



Tubing size 2 3/8" OD EUE 8R lined with Plastic Coated set in a
 (material)

Baker model AD-1 Tension packer at 3850 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of field or Pool (if applicable) Not Applicable

3. Is this a new well drilled for injection? ☐ Yes ☒ No

If no, for what purpose was the well originally drilled? Well originally drilled to 3664', then deepened to 6797' to produce the Drinkard Formation

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) 6150'-6280' and 6443'-6549' (Drinkard) CIBP @ 6110' w/35' cement; 5678'-6002' (Blinebry) CIBP @ 4300' w/35' cement; 3905'-4140' (San Andres)

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Langlie Mattix Queen 3390'-3660'; Blinebry 5430'-6070'; Tubb 6070' - 6362'; Drinkard 6362' - 6700'

Original Drilling Completed 3-8-38

Deepened from 3664' to 6547' completed 6-28-57.

UNICHEM

A Division of BJ Services Company

Lab Test No : 6751

Goldstar

Sample Date : 8/10/95

Lab Date In : 8/14/95

Lab Date Out : 8/21/95

Water Analysis

Listed below please find water analysis report from : SanAndrens Christmas

#3

Specific Gravity : 1.017

Total Dissolved Solids : 23911

pH : 6.86

Conductivity (uohms):

Ionic Strength : 0.450

Cations: mg/l

Calcium (Ca++): 640

Magnesium (Mg++): 535

Sodium (Na+): 7415

Iron (Fe++): 18.20

Dissolved Iron (Fe++):

Barium (Ba++): 2.10

Strontium (Sr):

Manganese (Mn++): 0.33

Resistivity :

Anions:

Bicarbonate (HCO3-): 2062

Carbonate (CO3--): 0

Hydroxide (OH-): 0

Sulfate (SO4--): 1260

Chloride (Cl-): 12000

Gases: ppm

Carbon Dioxide (CO2):

Oxygen (O2):

Hydrogen Sulfide (H2S):

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature	CaCO3 SI	CaSO4 SI
86F 30.0C	0.55	-33.71
104F 40.0C	0.79	-33.71
122F 50.0C	1.04	-33.71
140F 60.0C	1.32	-33.23
168F 70.0C	1.64	-32.09
176F 80.0C	1.98	-30.10

Comments :

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

Sincerely,



Laboratory Technician

cc: John Offutt

Joe Hay

UNICHEM

A Division of BJ Services Company

Lab Test No : 6750

Goldstar

Sample Date : 8/10/95

Lab Date In : 8/14/95

Lab Date Out : 8/21/95

Water Analysis

Listed below please find water analysis report from : FW Terry Estate

Sec. 34

Specific Gravity : 1.001
Total Dissolved Solids : 1416
pH : 7.40
Conductivity (uohms):
Ionic Strength : 0.029

=====

Cations:		mg/l
Calcium	(Ca++):	88
Magnesium	(Mg++):	68
Sodium	(Na+):	258
Iron	(Fe++):	4.50
Dissolved Iron	(Fe++):	
Barium	(Ba++):	3.60
Strontium	(Sr):	
Manganese	(Mn++):	0.00
Resistivity :		

=====

Anions:		
Bicarbonate	(HCO ₃ -):	415
Carbonate	(CO ₃ --):	0
Hydroxide	(OH-):	0
Sulfate	(SO ₄ --):	287
Chloride	(Cl-):	300

=====

=====

Gases:		ppm
Carbon Dioxide	(CO ₂):	
Oxygen	(O ₂):	
Hydrogen Sulfide	(H ₂ S):	

=====

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature	CaCO ₃ SI	CaSO ₄ SI
86F 30.0C	0.49	-20.28
104F 40.0C	0.78	-20.28
122F 50.0C	0.92	-20.28
140F 60.0C	1.08	-20.13
168F 70.0C	1.25	-19.16
176F 80.0C	1.43	-17.98

Comments :

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

Sincerely,



Laboratory Technician

cc: John Offutt

Joe Hay

UNICHEM

A Division of BJ Services Company

Lab Test No : 6749

Goldstar

Sample Date : 8/7/95

Lab Date In : 8/11/95

Lab Date Out : 8/21/95

Water Analysis

Listed below please find water analysis report from : Texaco FW Able

Sec. 21

Specific Gravity : 1.001
Total Dissolved Solids : 1342
pH : 7.56
Conductivity (uohms):
Ionic Strength : 0.028

=====
Cations: mg/l
Calcium (Ca++): 72
Magnesium (Mg++): 63
Sodium (Na+): 281
Iron (Fe++): 4.90
Dissolved Iron (Fe++):
Barium (Ba++): 4.20
Strontium (Sr):
Manganese (Mn++): 0.00
Resistivity :

Anions:
Bicarbonate (HCO3-): 305
Carbonate (CO3--): 0
Hydroxide (OH-): 0
Sulfate (SO4--): 201
Chloride (Cl-): 420

=====
Gases: ppm
Carbon Dioxide (CO2):
Oxygen (O2):
Hydrogen Sulfide (H2S):

=====
Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature	CaCO3 SI	CaSO4 SI
86F 30.0C	0.43	-21.57
104F 40.0C	0.72	-21.57
122F 50.0C	0.86	-21.57
140F 60.0C	1.02	-21.41
168F 70.0C	1.19	-20.44
176F 80.0C	1.37	-19.26

Comments :

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

Sincerely,



Laboratory Technician

cc: John Offutt
Joe Hay



GOLD STAR SWD LTD. CO

**(505) 394-2504 FAX (505) 394-2560 801 MAIN P.O. BOX 1480
HUNICE, NEW MEXICO 88231**

August 18, 1995

Millard Deck Estate
% Nations Bank
P.O. Box 1479
Fort Worth, Texas 76101


Attn: Mr. Ron Rowden

Gentlemen:

Enclosed is a complete copy of our application to the New Mexico Oil Conservation Division for Administrative Approval of our proposed produced water disposal well. We propose to convert a shut-in producing well for Salt Water Disposal located 330' FNL and 2310' FEL of Section 28, Township 22 South, Range 37 East, Lea County, New Mexico. This well will be designated as the Gold Star SWD Ltd. Co. Christmas No.3. It will be completed to dispose of produced water into the San Andres formation, through perforations from 3905' to 6002'.

As the surface owner where a salt water disposal is to be located, you are being notified of our application in compliance with New Mexico Oil Conservation Division regulations.

Sincerely,


Royce Crowell
Managing Member

Certified Mailing Number
Z 109 050 186



GOLD STAR SWD LTD. CO

**(505) 394-2504 FAX (505) 394-2560 801 MAIN P.O. BOX 1480
HUNICE, NEW MEXICO 88231**

August 18, 1995

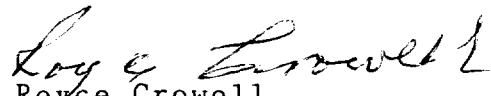
Chevron U.S.A. Inc.
P.O. Box 1150
Midland, Texas 79702

Gentlemen:

Enclosed is a complete copy of our application to the New Mexico Oil Conservation Division for Administrative Approval of our proposed produced water disposal well. We propose to convert a shut-in producing well for Salt Water Disposal located 330' FNL and 2310' FEL of Section 28, Township 22 South, Range 37 East, Lea County, New Mexico. This well will be designated as the Gold Star SWD Ltd. Co. Christmas No.3. It will be completed to dispose of produced water into the San Andres formation, through perforations from 3905' to 6002'.

As an offset oil and gas leaseholder, you are being notified of our application in compliance with New Mexico Oil Conservation Division regulations.

Sincerely,


Royce Crowell
Managing Member

Certified Mailing Number
Z 109 050 183



GOLD STAR SWD LTD. CO

**(505) 394-2504 FAX (505) 394-2560 801 MAIN P.O. BOX 1480
HUNICE, NEW MEXICO 88231**

August 18, 1995

Anadarko Petroleum, Corporation
P.O. Box 2497
Midland, Texas 79702

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Sincerely,


Royce Crowell
Managing Member

Certified Mailing Number
Z 109 050 184



GOLD STAR SWD LTD. CO

**(505) 394-2504 FAX (505) 394-2560 801 MAIN P.O. BOX 1480
EUNICE, NEW MEXICO 88231**

August 18, 1995

Arch Petroleum, Inc.
10 Desta Drive, Suite 420 E
Midland, Texas 79705

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As an offset oil and gas leaseholder, you are being notified of our application in compliance with New Mexico Oil Conservation Division regulations.

Sincerely,


Royce Crowell
Managing Member

Certified Mailing Number
Z 109 050 185

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, Kathi Bearden

General Manager

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of _____

1

weeks.

Beginning with the issue dated

August 18

, 1995

and ending with the issue dated

August 18

, 1995

Kathi Bearden
General Manager

Sworn and subscribed to before

me this 21st day of

August, 1995

Imelda S. Ruffino
Notary Public.

My Commission expires
March 24, 1998
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL

LEGAL NOTICE
August 18, 1995

Gold Star SWD Ltd. Co., whose address is P.O. Box 1480, Eunice, N.M. 88231, whose telephone number is 505-394-2504 or 505-393-0371 and whose contact person is Royce Crowell, Sr., hereby advertises that Gold Star SWD Ltd. Co. has filed with the New Mexico Oil Conservation Division an application for Administrative Approval for our proposed Salt Water Disposal well, which will be the Christmas No. 3 well located in the NW/4-NE/4 of Section 28, Township 22 South, Range 37 East, Lea County, New Mexico. It is proposed that produced water from surrounding oil and gas leases will be injected into the San Andres formation at a depth to be between 3905 feet and 6002 feet from the surface, with expected maximum injection rate not to exceed 3,000 BPD of water and maximum expected injection pressure to be 750 psi.

LEGAL

Any interested party must file objections or requests for a hearing with the New Mexico Oil Conservation Division within 15 days of this date the N.M.O.C.D. address is P.O. Box 208 Santa Fe, NM 87501 and their phone number is 505-827-7132.

SWD-606



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

8/25/95

GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____
NSL	_____
NSP	_____
SWD	<u>X</u> _____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Good Sam
Lewis B Burleson Inc Annie L Christmas # 3-B 28-225-37e
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed