

DATE IN 11/16/06	SUSPENSE 12/2/06	ENGINEER Will Jones	LOGGED IN 11/18/06	TYPE SWD 1059	APP NO. PTD.SOL.32147693
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ABOVE THIS LINE FOR DIVISION USE ONLY

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
- [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			

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: COG Operating LLC 2006 NOV 16 PM 1 03

ADDRESS: 550 W. Texas, Suite 1300 Midland, TX 79701

CONTACT PARTY: Jerry W. Sherrell PHONE: (505)748-1288

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.

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.).

*V111. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

*X. Attach appropriate logging and test data on the well. (if well logs have been filed with the Division, they need not be resubmitted).

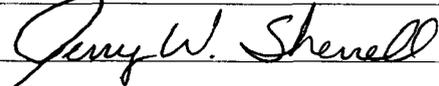
*XI. Attach a chemical analysis of freshwater from two or more freshwater wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

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

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

NAME: Jerry W. Sherrell TITLE: Production Clerk

SIGNATURE:  DATE: 11/14/06

* 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: _____

OPERATOR: COG Operating LLC

WELL NAME & NUMBER: Blue Streak Federal #1

WELL LOCATION: 1980 FSL & 660 FEL

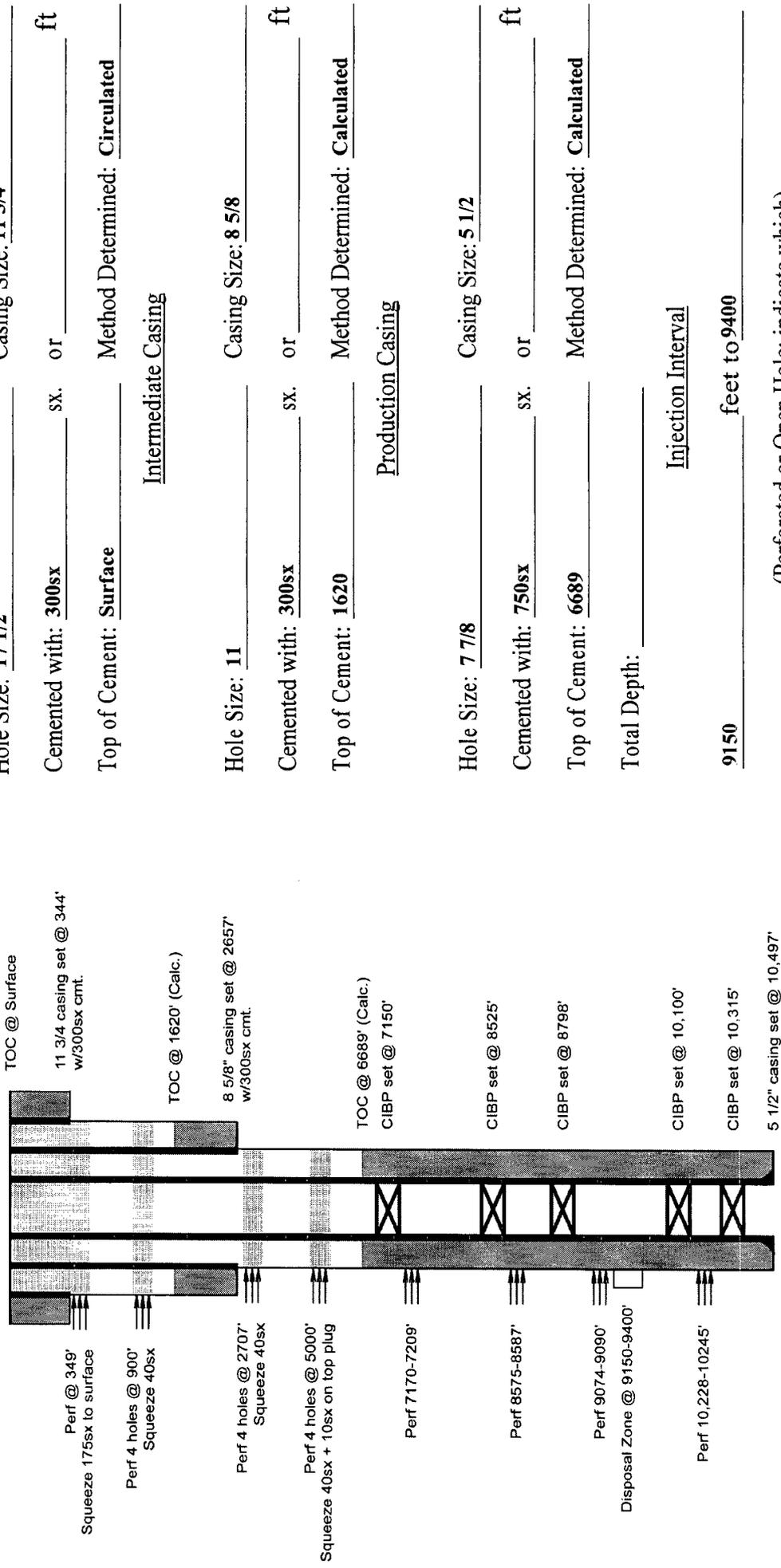
I UNIT LETTER **29** SECTION **17S** TOWNSHIP **29E** RANGE

FOOTAGE LOCATION

WELL CONSTRUCTION DATA
Surface Casing

WELLBORE SCHEMATIC

Blue Streak Federal #1
1980 FSL & 660 FEL
Sec. 29-T17S-R29E



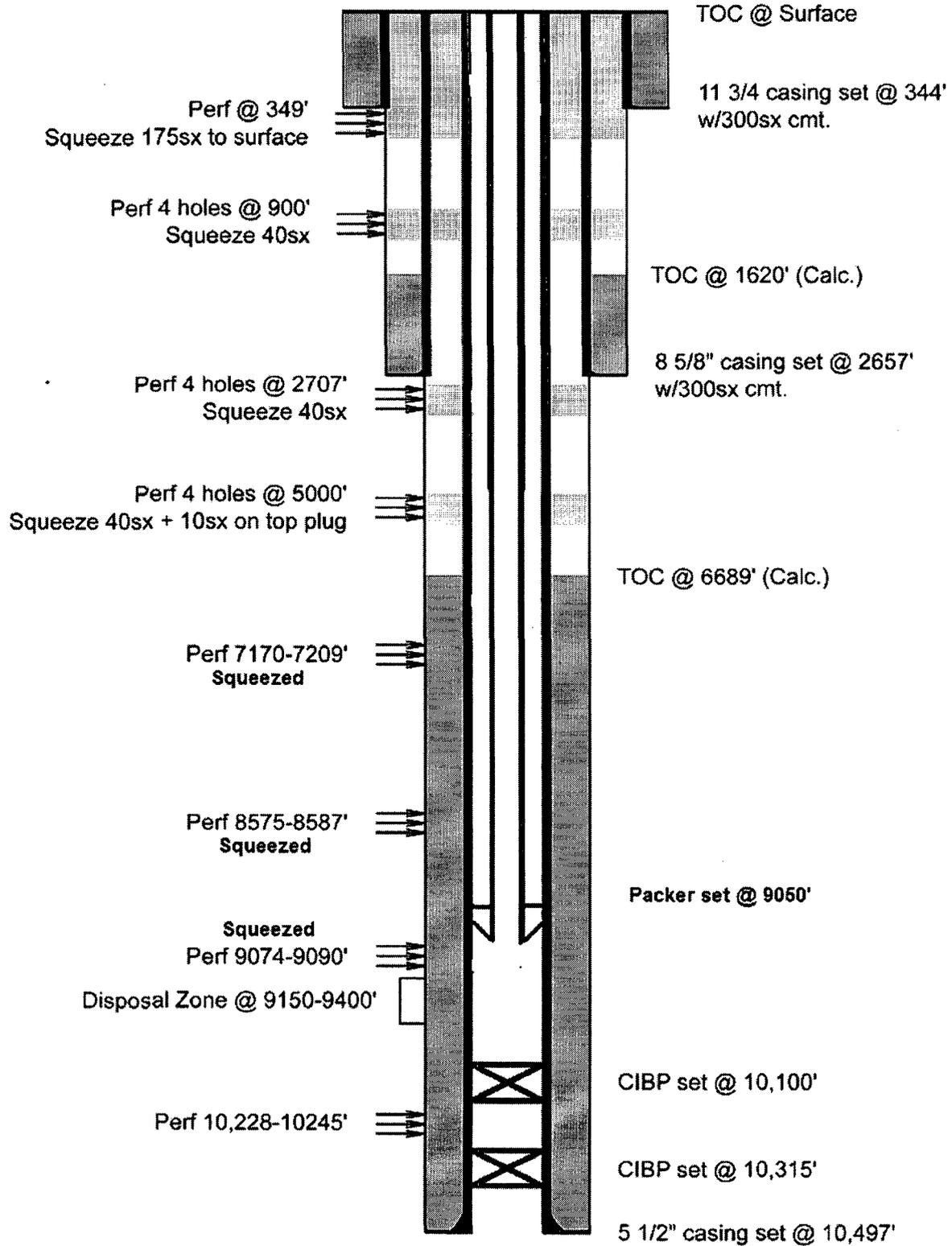
5 1/2" casing set @ 10,497'

(Perforated or Open Hole; indicate which)

Drill out 4 squeeze jobs, drill out 3 CIBPs & squeeze 3 sets of perfs, then perforate & acidize Disposal Zone.

Blue Streak Federal #1

1980 FSL & 660 FEL
Sec. 29-T17S-R29E



Drill out 4 squeeze jobs, drill out 3 CIBPs & squeeze 3 sets of perfs, then perforate & acidize Disposal Zone.

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Plastic Coated

Type of Packer: Haliburton Trump Packer

Packer Setting Depth: 9050'

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

Additional Data

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

If no, for what purpose was the well originally drilled? Morrow Gas Well

2. Name of the Injection Formation: Cisco

3. Name of Field or Pool (if applicable): Empire

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. See Schematic

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Underlying-Atoka, Overlying-Wolfcamp

VII. DATA SHEET: PROPOSED OPERATIONS

1. Proposed average and maximum daily rate and volume of fluids to be injected;
Respectively, 2000 BWP and 3000 BWP
2. The system is closed or open;
Closed
3. Proposed average and maximum injection pressure;
100-300#
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than re-injected produced water;
We will be re-injecting produced water
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;
N/A

VIII. GEOLOGICAL DATA

1. Lithologic Detail; **Carbonate**
2. Geological Name; **Cisco**
3. Thickness; **250'**
4. Depth; **9150-9400'**

IX. PROPOSED STIMULATION PROGRAM

1. To be treated with 1000 gallons 15% acid

X. LOGS AND TEST DATA

1. Well data has been filed with the OCD

XI. ANALYSIS OF FRESHWATER WELLS

1. N/A

Additional Information

Waters injected: Grayburg, San Andres, Paddock

w/flat kind



Blue Streak Federal #1

1980 FSL & 660 FEL

Sec. 29-T17S-R29E

TOC @ Surface

11 3/4" casing set @ 344'
w/300sx cmt.

TOC @ 1620' (Calc.)

8 5/8" casing set @ 2657'
w/300sx cmt.

TOC @ 6689' (Calc.)

CIBP set @ 7150'

CIBP set @ 8525'

CIBP set @ 8798'

CIBP set @ 10,100'

CIBP set @ 10,315'

5 1/2" casing set @ 10,497'

Perf @ 349'
Squeeze 175sx to surface

Perf 4 holes @ 900'
Squeeze 40sx

Perf 4 holes @ 2707'
Squeeze 40sx

Perf 4 holes @ 5000'
Squeeze 40sx + 10sx on top plug

Perf 7170-7209'

Perf 8575-8587'

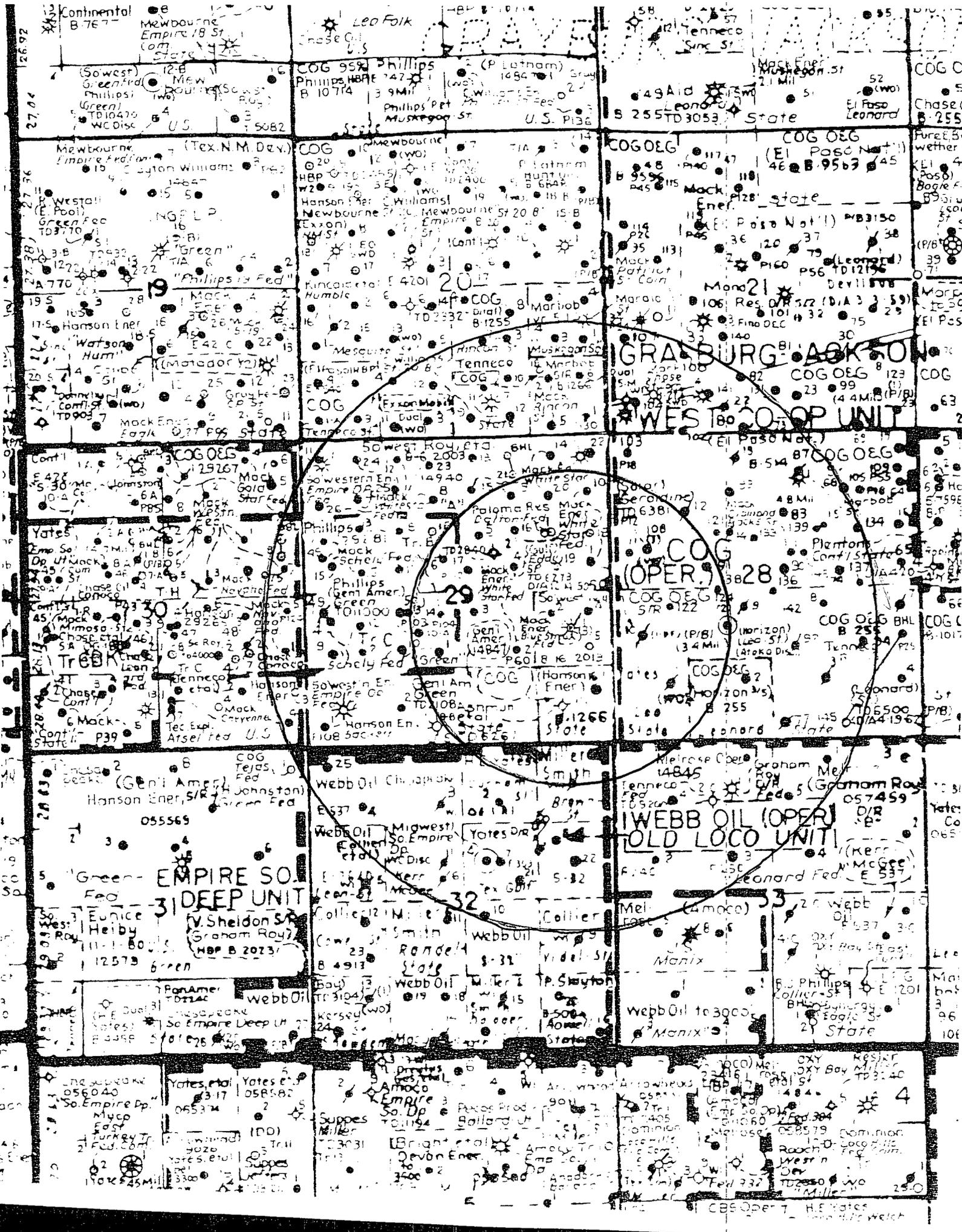
Perf 9074-9090'

Disposal Zone @ 9150-9400'

Perf 10,228-10245'

Pre-Conversion

Drill out 4 squeeze jobs, drill out 3 CIBPs & squeeze 3 sets of perfs, then perforate & acidize Disposal Zone.



Continental B.767
Mewbourne Empire 18 St. Com. State
(Sowest) Green Fed Phillips (two) TD10470 WC Disc
US 5082

Leo Folk Chase Oil
COG 959 Phillips (P Latham) Phillips HBP 747 Phillips B 10714 3 9 Mill Phillips PPT Mustang ST U.S. P136

49 Aid 255 TD 3053 State
Mack Ener Mustang ST 21 Mill
COG OEG (El Paso Nat'l) 46 B.9567 45
Chase B.255 El Paso Leonard

Mewbourne Empire Fed (Tex. N.M. Dev.)
Hanson Ener Williams
Westall (E. Pool) Green Fed TD 3770
A 770

COG OEG Mewbourne (WO) TIA
Hanson Ener Williams
Newbourne (Texon) Empire B
Kincadeo et al 4701 20
Humble

COG OEG (El Paso Nat'l) B.9567 45
Mack Ener state
El Paso Nat'l B.3150
P56 TD 12150
Devil 508

Watson Hum
Mack Ener
Johnston (two) TD 9037
Mack Ener Eagle 27 P95 State

COG OEG
Mack Ener
Marion
Muskogean ST
Tenneco
COG OEG (WO) State

GRABURG ASKTON
WEST CO. OP UNIT
COG OEG B.123
(4.4 Mil) (P/B) 23
COG OEG B.54 87
COG OEG B.255

COG OEG 25267
Mack Ener Gold Star Fed
Yates
Emo So. 12.7 Mil
Dp. Ut Mack B.2 (UB) 5
Chase Oil Conoco

COG OEG
Mack Ener
Phillips (Genl Amer)
Schely Fed
Green
COG OEG (Hanson Ener)

COG OEG (OPER.) 3828
COG OEG STR 122
COG OEG B.255
COG OEG BHL COG B.1017

Green-EMPIRE SO. DEEP UNIT
Eunice Heiby
V. Sheldon S. Graham Roy
HBP B 20237
12573 Green

Webb Oil
Migwest So. Empire
Yates Dr
Kerr
Collier
Webb Oil
Randel State
Webb Oil
Kersey (wo)
Kersey Mack

WEBB OIL (OPER.) OLD LOCO UNIT
Kerr
McGee
Leonard Fed
Webb Oil
Melrose (Amoco)
Marix
Webb Oil to 3000
Marix

Green-EMPIRE SO. DEEP UNIT
Eunice Heiby
V. Sheldon S. Graham Roy
HBP B 20237
12573 Green

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Kersey Mack

WEBB OIL (OPER.) OLD LOCO UNIT
Kerr
McGee
Leonard Fed
Webb Oil
Melrose (Amoco)
Marix
Webb Oil to 3000
Marix

Yates et al 05534
Yates et al 05582
Yates et al 05534
Yates et al 05582

Suppes Miller
Bright Devon Ener
Ballard
Pecos Prod
Ballard

Yates et al 05534
Yates et al 05582
Yates et al 05534
Yates et al 05582
Yates et al 05534
Yates et al 05582

AREA OF REVIEW WELL DATA

LEASE/API	WELL#	LOCATION	TD (PBSD)	TYPE & DATE DRILLED	HOLE SIZE	CASING SIZE & WEIGHT	SETTING DEPTH	SX CMT	TOC	PERFS
Blue Streak Federal 30-015-21308	1	1980' FSL			17 1/2	11 3/4, 42#	344'	300	circ	
		660' FEL	10,927'	Gas	11	8 5/8, 24 & 32#	2657'	300	1620'	
		29-17S-29E	(0')	8/11/1974	7 7/8	5 1/2, 15.5 & 17#	10,497'	750	6689'	Plugged
State 28 Com 30-015-20351	2	1980' FSL			15	11 3/4, 42#	350'	350	circ	Plugged
		1980' FWL	10,890'	Gas	11	8 5/8, 32#	3500'	400	1180'	Pulled 6600' 5 1/2
		28-17S-29E	0'	4/27/1973	7 7/8	5 1/2, 20#	10,870'	300	9280'	Pulled 1180' 8 5/8
GJ West Coop Unit 30-015-20351	124	1980' FSL			15	11 3/4, 42#	350'	350	circ	
		1980' FWL	6020'	Oil(Re-entry)	11	8 5/8, 32#	1180-3500'	400	1180'	
		28-17S-29E	5524'	2/23/1994	7 7/8	5 1/2, 17#	5524'	1100	650'	4098-5218'
Green A 30-015-21748	10	1980' FSL			15	11 3/4, 42#	333'	300	0'	
		1980' FWL	11,000'	Gas	11	8 5/8, 32#	2674'	300	1600'	
		29-17S-29E	9800'	3/10/1976	7 7/8	5 1/2, 17#	9800'	1630	2000'	9220-9600'

OUT of AOR

Shams

A

OK

A

Green A Federal #10

1980 FSL & 1980 FWL

Sec. 29-T17S-R29E

5 1/2" TOC @ Surface (Calc.)

11 3/4" TOC @ Surface

11 3/4" casing set @ 333'
w/300sx cmt.

8 5/8" TOC @ 1600'

Perf 2306-2309'

Perf 2342-2348'

Perf 2442-2446'

Perf 2453-2460'

(Perfs @ 2306-2460'
squeezed with 180sx cmt.)

8 5/8" casing set @ 2674'
w/300sx cmt.

Operator?

SQUEEZED?

Perf 9220-9600'

5 1/2" casing set @ 9800'
w/1630sx cmt.

*1/2 mile
Away*
*OUT OF
HOR*

TOC @ 9917'

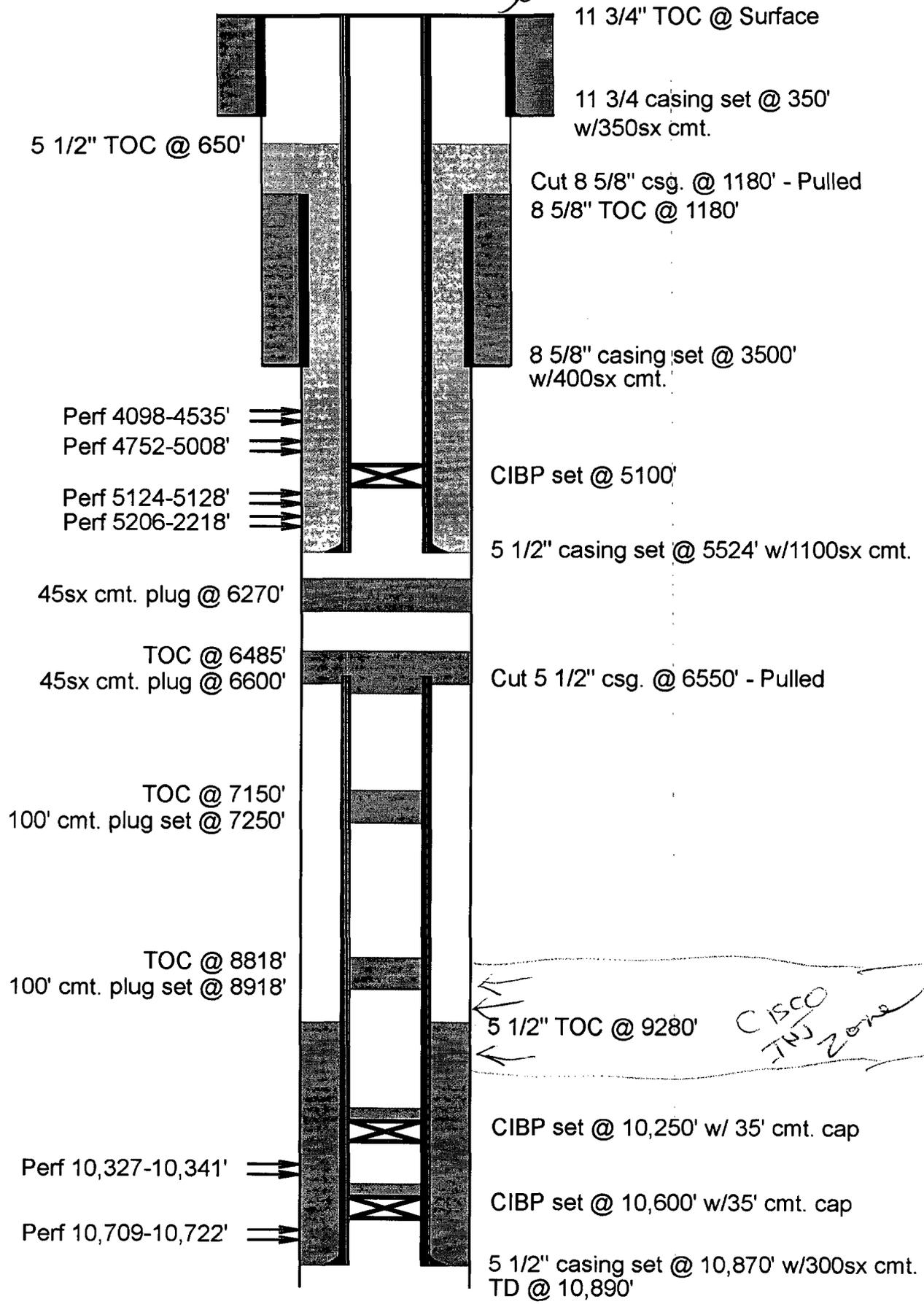
132' cmt. plug set @ 10,049'

TD @ 11,000'

GJ West Coop Unit #124 / State 28 com #2

1980 FSL & 1980 FWL
Sec. 28-T17S-R29E

30-015-2035 |



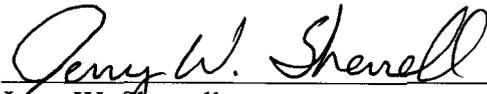
XII. AFFIRMATIVE STATEMENT

RE: Blue Streak Federal #1

We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

Mack Energy Corporation

Date: 11-14-2006


Jerry W. Sherrell

Blue Streak Federal #1 Notification List

Bogel Farms

P.O. Box 441
Artesia, NM 88210

ConocoPhillips

P.O. Box 2197
Houston, TX 77252

Heyco

P.O. Box 1933
Roswell, NM 88202

Marathon Oil Company

P.O. Box 33128
Houston, TX 77253-3128

Oxy USA Inc.

P.O. Box 50250
Midland, TX 79710

Attn: Oxy USA Inc., Richard K. Barr, Scott E. Wilson

RKC Inc.

1527 Hillside Rd.
Fairfield, CT 06490

William J. Graham

3612 Pennsylvania LN
Plano, TX 75075

Bureau of Land Management

620 E. Greene Street
Carlsbad, NM 88220-6292

**Mack Energy
Corporation**

Fax

To: Artesia Daily Press-Barbara **From:** Jerry W. Sherrell

Fax: 505-746-8795 **Pages:** 2

Phone: 505-746-3524 **Date:** 11/14/2006

Re: Legal Notice Publication **CC:**

Blue Streak Federal #1 SWD

Urgent **For Review** **Please Comment** **Please Reply** **Please Recycle**

● **Comments:** Barbara, would you please bill Mack Energy Corporation for this publication. If you have any questions give me a call at 505-748-1288.

Thanks

Jerry W. Sherrell

Legal Notice

COG Operating LLC, 550 W. Texas Suite 1300, Midland, TX 79701, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Blue Streak Federal #1 Section 29, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. The water will be injected into the Cisco formation at a disposal depth of 9150 feet to 9400 feet. Water will be injected at a maximum surface pressure of 300 pounds and a maximum injection rate of 3000 BWPD. Any interested party with questions or comments may contact Jerry W. Sherrell at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (505) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice. Published in the Artesia Daily Press, Artesia, New Mexico.

TRANSACTION REPORT

P. 01

NOV-14-2006 TUE 01:15 PM

FOR: mack energy

15057469539

SEND

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
NOV-14	01:14 PM	97468795	18"	2	FAX TX	OK	475	
TOTAL :						18S PAGES:	2	

P.O. Box 960 Artesia NM 88211-0960 (505)748-1288 Fax (505)746-9539



Fax

To: Artesia Daily Press-Barbara **From:** Jerry W. Sherrell

Fax: 505-746-8795 **Pages:** 2

Phone: 505-746-3524 **Date:** 11/14/2006

Re: Legal Notice Publication **CC:**

Blue Streak Federal #1 SWD

Urgent For Review Please Comment Please Reply Please Recycle

● **Comments:** Barbara, would you please bill Mack Energy Corporation for this publication. If you have any questions give me a call at 505-748-1288.

Thanks



Post Office Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8540
RETURN RECEIPT REQUESTED

Bogel Farms
P.O. Box 441
Artesia, NM 88210

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporations contract operator for COG Operating LLC application for approval to convert the Blue Streak Federal #1, Sec. 29 T17S R29E well into produced water disposal well

This letter will serve as a notice that COG Operating LLC has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

Mack Energy Corporation

A handwritten signature in black ink that reads "Jerry W. Sherrell". The signature is written in a cursive style with a large, prominent "J" and "S".

*Jerry W. Sherrell
Production Clerk*

JWS

Enclosures



Post Office Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8533
RETURN RECEIPT REQUESTED

ConocoPhillips
P.O. Box 2197
Houston, TX 77252

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Jerry W. Sherrell
Production Clerk

JWS\

Enclosures



Post Office Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8526
RETURN RECEIPT REQUESTED

Heyco
P.O. Box 1933
Roswell, NM 88202

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Mack Energy Corporation

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Jerry W. Sherrell
Production Clerk

JWS\

Enclosures



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Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8496
RETURN RECEIPT REQUESTED

Marathon Oil Company
P.O. Box 33128
Houston, TX 77253-3128

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*Jerry W. Sherrell
Production Clerk*

JWS

Enclosures



Post Office Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8519
RETURN RECEIPT REQUESTED

Oxy USA Inc.
P.O. Box 50250
Midland, TX 79710
Attn: Oxy USA Inc., Richard K. Barr, Scott E. Wilson

Gentlemen:

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*Jerry W. Sherrell
Production Clerk*

JWS

Enclosures



Post Office Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8489
RETURN RECEIPT REQUESTED

RKC Inc.
1527 Hillside Rd.
Fairfield, CT 06490

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*Jerry W. Sherrell
Production Clerk*

JWS

Enclosures



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Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8502
RETURN RECEIPT REQUESTED

William J. Graham
3612 Pennsylvania LN
Plano, TX 75075

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A handwritten signature in black ink that reads "Jerry W. Sherrell".

Jerry W. Sherrell
Production Clerk

JWS\

Enclosures



Post Office Box 960
Artesia, NM 88211-0960
Office (505) 748-1288
Fax (505) 746-9539

November 14, 2006

VIA CERTIFIED MAIL 7006 0100 0002 8524 8472
RETURN RECEIPT REQUESTED

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

Gentlemen:

Enclosed for your review is a copy of Mack Energy Corporations contract operator for COG Operating LLC application for approval to convert the Blue Streak Federal #1, Sec. 29 T17S R29E well into produced water disposal well

This letter will serve as a notice that COG Operating LLC has requested administrative approval from the NMOCD to convert this well into a water disposal well. If you have any objections, you must notify the Oil Conservation Division in Santa Fe in writing within fifteen (15) days of receiving this letter.

Sincerely,

Mack Energy Corporation

A handwritten signature in black ink that reads "Jerry W. Sherrell". The signature is written in a cursive style with a large, prominent "J" and "S".

*Jerry W. Sherrell
Production Clerk*

JWS

Enclosures

10000 COPY
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

Copy to SA

5. LEASE DESIGNATION AND SERIAL NO.
NM-14840

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Green "A"

9. WELL NO.
#3

10. FIELD AND POOL, OR WILDCAT
Grayburg-Atoka

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 29, T-17S, R-29E

12. COUNTY OR PARISH 13. STATE
Eddy New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
General American Oil Company of Texas

FEB 19 1979

3. ADDRESS OF OPERATOR
P. O. Box 128 Loco Hills, New Mexico 88556 O. C. C. ARTESIA, OFFICE

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface:

1980' FSL and 660' FEL
Section 29, T-17S, R-29E
Eddy County, New Mexico

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.)
3595' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Plug Back & Test <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

A cast iron bridge plug was set @ 10,315' and 30' of cement was placed on bridge plug to permanently abandon Atoka perforations from 10,350'-10,389'.

The Upper Atoka Zone was perforated from 10,228' to 10,245' (one shot per foot) acidized this zone with 1,000 gallons of acid. Swabbed well. Tested Zone. Gas show to small to measure. A cast iron bridge plug was set @ 10,100' and 30' of cement was placed on bridge plug to permanently abandon this Upper Atoka Zone.

10% acetic acid was spotted across the Cisco Zone. The Cisco Zone was perforated from 9074' to 9090' (2 shots per foot) well was swabbed. Well would not flow. Installed pumping unit and placed well on test.

RECEIVED

FEB 16 1979

U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED Randell N. Hawkins TITLE Assistant Field Superintendent DATE February 16, 1979
Lendell N. Hawkins

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE ACTING DISTRICT ENGINEER DATE FEB 16 1979
CONDITIONS OF APPROVAL, IF ANY:

UNITE STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer DD
Artesia, NM 88210

5. LEA

NM-14840

215

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

RECEIVED

7. UNIT AGREEMENT NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

DEC 16 1982

8. FARM OR LEASE NAME

Green "A" Conv.

DEC 3 1982

9. WELL NO.

#3

O. C. D.

ARTESIA, OFFICE

2. NAME OF OPERATOR

General American Oil Company of Texas

O. C. D.

3. ADDRESS OF OPERATOR

P. O. Box 128 Loco Hills, N.M. 88255

10. FIELD OR WILDCAT NAME

Grayburg-Atoka

Incl. Wolfcamp

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE:

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH: 1980' FSL and 660' FEL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 29, T-17S, R-29E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON*
- (other)

-
-
-
-
-
-
-
-
-

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

MINERALS DIVISION
ROSWELL, NEW MEXICO

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well was drilled and originally produced from the Atoka Perfs 10,350'-10,389' from October, 1972 to October, 1978.

A cast iron bridge plug was set @ 10,315' on October 2, 1978 with 35' of cement on top. The Upper Atoka was perforated from 10,228'-10,245' and was tested and found to be non-productive.

On October 9, 1978 a cast iron bridge plug was set at 10,100' with 35' of cement on top. The Cisco zone was perforated from 9074'-9090' and was tested and found non-productive.

On March 19, 1979 a cast iron bridge plug was set at 8798' with 35' of cement on top. The Wolfcamp was perforated from 8575'-8587' and was tested and found non-productive.

Prior to the plugging and abandoning of this well we request to:

1. Dig small workover pit.

(CONTINUED ON BACK)

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct Field

SIGNED Pendell N. Hawkins TITLE Superintendent DATE December 2, 1982

APPROVED (This space for Federal or State office use)

APPROVED BY Peter M. Chester TITLE _____ DATE _____

CONDITIONS OF APPROVAL IF ANY:

DEC 14 1982

FOR
JAMES A. GILLHAM
DISTRICT SUPERVISOR

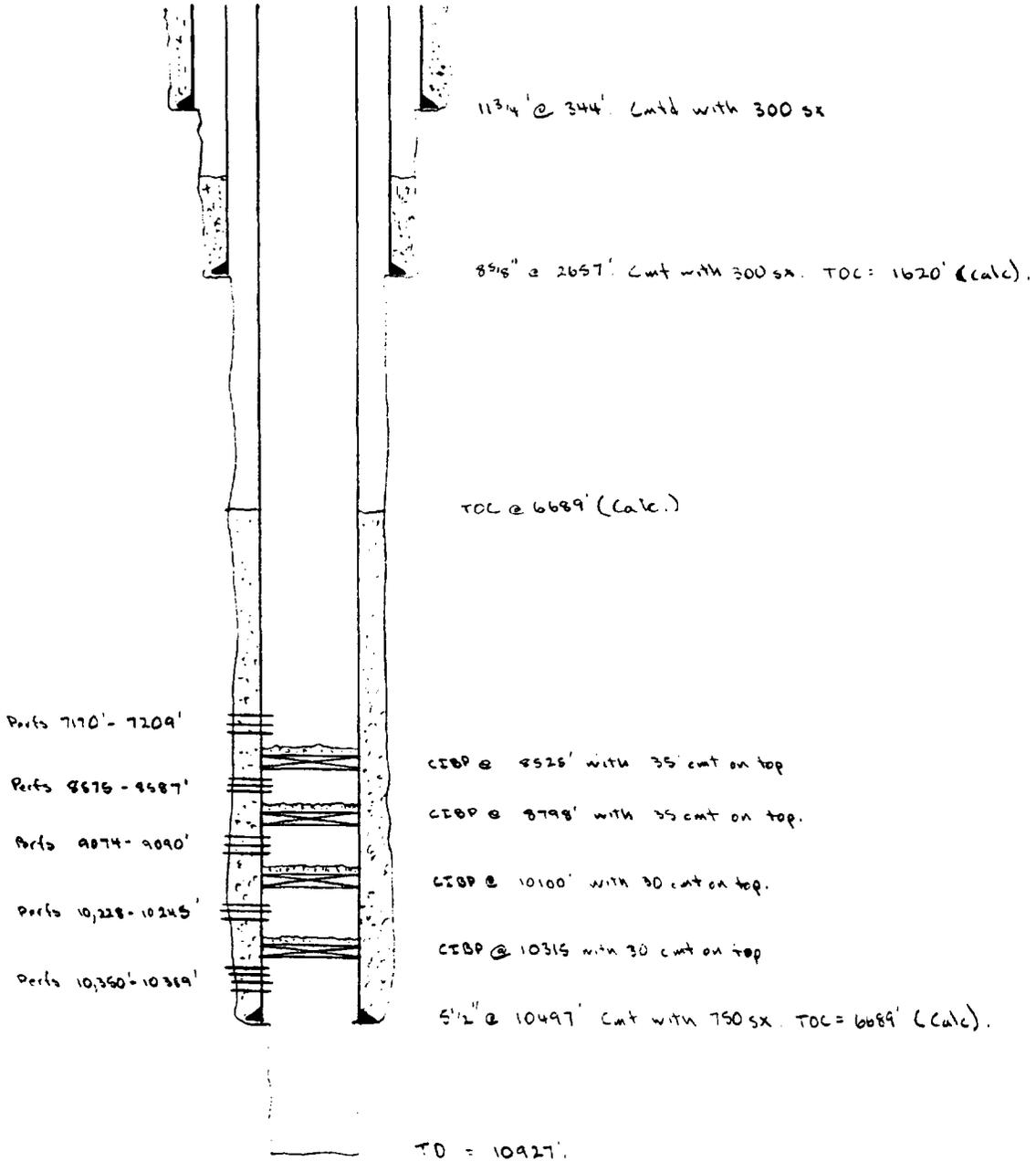
*See Instructions on Reverse Side

SOUTHWEST ROYALTIES

PROJECT Green A Fed # 3
Present Status

PAGE _____ OF _____
 BY ROY DATE 6-1-93

Drilled & completed in 1974



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

115
Artesia, NM

vision FORM APPROVED
Budget Bureau No 1004-0135
Expires: March 31, 1993

215F

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1 Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5 Well Designation and Serial No NM-14840
2 Name of Operator Mack Energy Corporation		6 If Indian, Allottee or Tribe Name
3 Address and Telephone No P.O. Box 960, Artesia, NM 88211-0960 (505)748-1288		7 If Unit or CA, Agreement Designation
4 Location of Well (Footage, Sec., T. R., M. or Survey Description) Sec. 29-T17S-R29E 1980 FSL & 660 FEL		8 Well Name and No. Blue Streak Federal #1
		9 API Well No. 30-015-21308
		10 Field and Pool, or Exploratory Area Eddy Undes Abo (Gas)
		11 County or Parish, State Eddy, NM

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator, Change Name</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)*

As required by 43 CFR 3100.0-5(a) and 43 CFR 3162.3 we are notifying you of a change of operator on the above referenced lease.

Mack Energy Corporation, as new operator, accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the lease or portion of lease described.

Mack Energy Corporation meets federal bonding requirements as follows (43 CFR 3104):

Bond Coverage: Individually Bonded

BLM Bond File No.: 58 59 88

M. J. 2151
APPROVED

The effective date of this change: May 1, 1998

JUN 3 1998

Also the name was changed from the Green A #3 to the Blue Streak Federal #1.

ks
**AUTHORIZED OFFICER, MINERALS
BUREAU OF LAND MANAGEMENT**

14 I hereby certify that the foregoing is true and correct
Signed Cress D. Carter Title Production Clerk Date 6/19/98

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

C. Cons.
N.M. DIV. Dist. 2
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
Bureau No. 1004-0135
Expires: March 31, 1993

CISF

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	6. If Indian, Allottee or Tribe Name
2. Name of Operator Mack Energy Corporation	7. If Unit or CA, Agreement Designation
3. Address and Telephone No. P.O. Box 960, Artesia, NM 88211-0960 (505) 748-1288	8. Well Name and No. Blue Streak Federal #1
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1980' FSL & 660' FEL, Sec. 29, T-17-S, R-29-E	9. API Well No. 30-015-21308
	10. Field and Pool, or Exploratory Area Eddy Undes Abo (Gas)
	11. County or Parish, State Eddy, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

5-04-02 Rig up unit, RIH w/ tbg. & tag plug @ 6948'. Mud up hole. Test csg. @ 500 PSI. Held okay.

5-06-02 Well had pressure, leave it flowing over night.

5-07-02 Perf @ 5000', RIH w/ tbg. and pkr, pkr was set down @ 2679'.

5-08-02 Clean up hole, RIH w/ tbg. and pkr. sqz 40 sx cmt. WOC.

5-09-02 Tag cmt. plug @ 4918', add 10 sx cmt.

5-10-02 Perf @ 2707', sqz 40 sx cmt. w/ 2% CaCl. WOC 4 hrs. & tag plug @ 2537'. Perf 4 holes @ 900', sqz 40 sx cmt. WOC over the weekend.

5-13-02 Tag cmt. plug @ 752', perf @ 394', sqz 175 sx to surface. RDMO. ~~Cut off wellhead and install dry hole marker.~~

Post Post

ACCEPTED FOR RECORD
MAY 16 2002
BUREAU OF LAND MANAGEMENT

Accepted for record - NMOCU

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Agent Date 05/16/02

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Inactive Well List

Total Well Count:952 Inactive Well Count:3 Since:8/27/2005

Printed On: Monday, November 20 2006

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	Days in TA
1	30-025-27073	JALMAT YATES UNIT #010	4-7 -25S-37E	M	229137	COG OPERATING LLC	P	I	05/2001		T	1855
1	30-025-26870	JALMAT YATES UNIT #026	2-18-25S-37E	E	229137	COG OPERATING LLC	P	I	09/1995		T	2110
1	30-025-34973	MC FEDERAL #005	N-21-17S-32E	N	229137	COG OPERATING LLC	F	O	07/2003	PADDOCK	T	1850

WHERE Ogrid:229137, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15

Jerry Sherrell

From: Jones, William V., EMNRD [William.V.Jones@state.nm.us]
Sent: Monday, November 20, 2006 8:04 PM
To: Jerry Sherrell
Cc: Ezeanyim, Richard, EMNRD; Arrant, Bryan, EMNRD
Subject: SWD application: Blue Streak Federal #1

RECEIVED

NOV 27 2006

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Hello Jerry:

After reviewing your application on behalf of COG, I have the following requests and questions:

- 1) Please send a list of all geologic formation tops as picked by your geologists in this area - from surface to the Morrow ✓
- 2) Send water analysis of all types of waters to be disposed: Gbg, SA, Paddock, etc. ✓
- 2A) Send a water analysis of the Cisco in this area.
- 3) Is there a windmill or other fresh water well within 1 mile of this location? If so, send a water analysis. ✓
- 4) Who is the surface owner, Bogel Farms, or the BLM? ✓
- 5) Send a copy of the actual newspaper ad as it ran in the paper. ✓
- 6) Send a post conversion wellbore diagram of the intended injection well. ✓
- 7) When does Mack intend to transfer this well to COG Operating, LLC? ✓

Thank You,

William V. Jones

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient (s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

Blue Streak Federal #1
Log Tops

Yates: 802'
Seven Rivers: 1096'
Queen: 1727'
Grayburg: 2125'
San Andres: 2450'
Glorieta: 3926'
Tubb: 5645'
Abo Shale: 6171'
Wolfcamp: 7309'
Cisco: 8600'
Strawn: 9798'
Atoka: 10,216'
Morrow: 10,660'

North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	MACK ENERGY INCORPORATED	Sales RDT:	33512
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (505) 910-9389
Area:	ARTESIA, NM	Sample #:	329118
Lease/Platform:	MESQUITE STATE LEASE	Analysis ID #:	53282
Entity (or well #):	13	Analysis Cost:	\$40.00
Formation:	UNKNOWN GB/SA		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 329118 @ 75 °F					
Sampling Date:	7/19/05	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	8/2/05	Chloride:	109053.0	3075.99	Sodium:	68091.5	2961.81
Analyst:	STACEY SMITH	Bicarbonate:	414.8	6.8	Magnesium:	743.0	61.12
TDS (mg/l or g/m3):	186010.4	Carbonate:	0.0	0.	Calcium:	2653.0	132.39
Density (g/cm3, tonne/m3):	1.129	Sulfate:	4349.0	90.55	Strontium:	60.0	1.37
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.1	0.
Carbon Dioxide:	50 PPM	Borate:			Iron:	12.0	0.43
Oxygen:	0 PPM	Silicate:			Potassium:	634.0	16.21
Comments:		Hydrogen Sulfide:		7 PPM	Aluminum:		
RESISTIVITY - 0.048 OHM-M @ 75°F		pH at time of sampling:		7	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		7	Lead:		
					Manganese:		
					Nickel:		

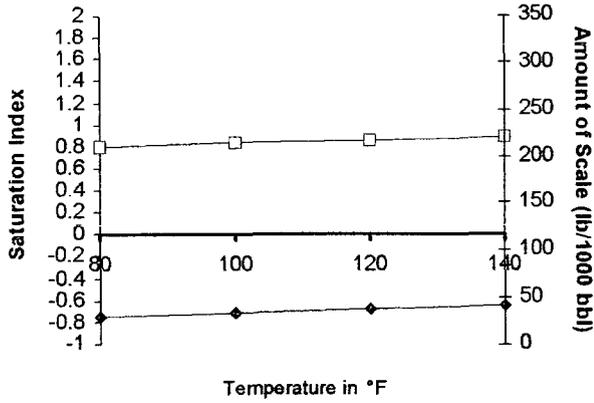
Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	0.80	29.28	0.01	49.18	0.03	92.22	0.04	3.22	0.38	0.00	0.31
100	0	0.83	33.37	-0.06	0.00	0.02	61.77	0.01	0.59	0.17	0.00	0.43
120	0	0.85	37.47	-0.13	0.00	0.04	97.49	-0.01	0.00	-0.01	0.00	0.58
140	0	0.88	42.16	-0.19	0.00	0.07	187.66	-0.02	0.00	-0.17	0.00	0.76

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

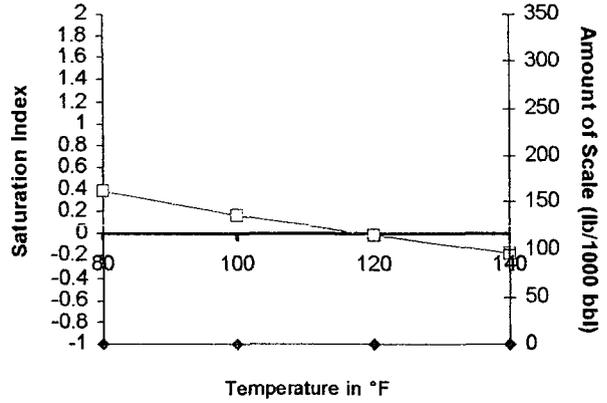
Scale Predictions from Baker Petrolite

Analysis of Sample 329118 @ 75 °F for MACK ENERGY INCORPORATED, 8/2/05

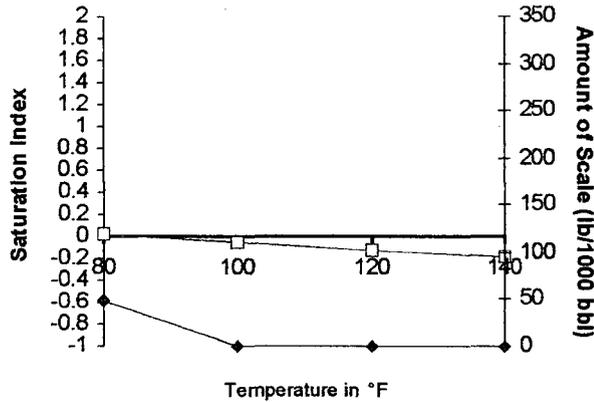
Calcite - CaCO3



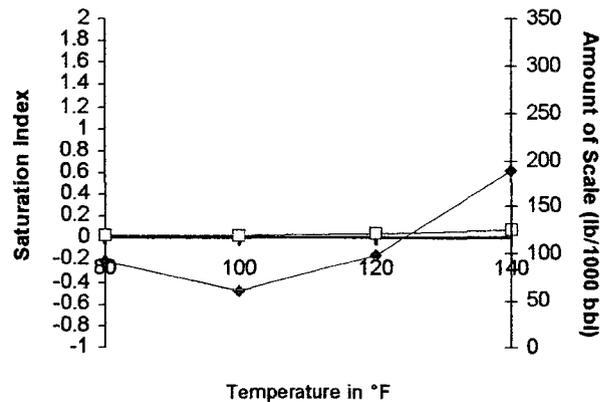
Barite - BaSO4



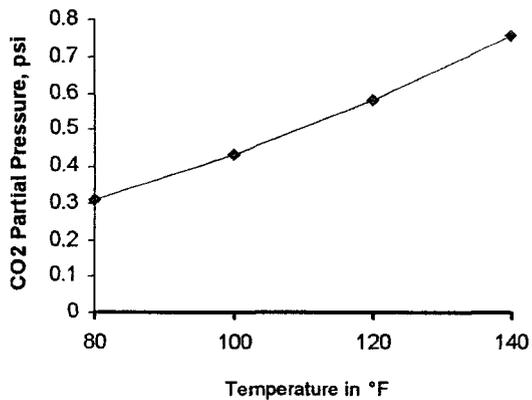
Gypsum - CaSO4*2H2O



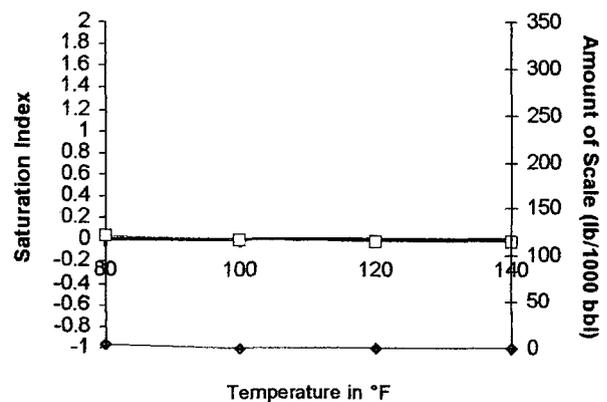
Anhydrite - CaSO4



Carbon Dioxide Partial Pressure



Celestite - SrSO4



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(915) 495-7240

Water Analysis Report by Baker Petrolite

Company:	MACK ENERGY INCORPORATED	Sales RDT:	33512
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (505) 910-9389
Area:	ARTESIA, NM	Sample #:	211640
Lease/Platform:	SCHLEY FEDERAL LEASE	Analysis ID #:	32028
Entity (or well #):	15	Analysis Cost:	\$40.00
Formation:	UNKNOWN <i>Empire Yeso, East - Paddock</i>		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 211640 @ 75 °F					
		Anions	mg/l	meq/l	Cations	mg/l	meq/l
Sampling Date:	2/19/03	Chloride:	110711.0	3122.75	Sodium:	66728.6	2902.53
Analysis Date:	3/3/03	Bicarbonate:	477.0	7.82	Magnesium:	1616.0	132.94
Analyst:	JAMES AHRLETT	Carbonate:	0.0	0.	Calcium:	3089.0	154.14
TDS (mg/l or g/m3):	186471.6	Sulfate:	3393.0	70.64	Strontium:	43.0	0.98
Density (g/cm3, tonne/m3):	1.133	Phosphate:			Barium:	3.0	0.04
Anion/Cation Ratio:	1	Borate:			Iron:	7.0	0.25
Carbon Dioxide:	180 PPM	Silicate:			Potassium:	404.0	10.33
Oxygen:	0 PPM	Hydrogen Sulfide:		21 PPM	Aluminum:		
Comments:		pH at time of sampling:		6.9	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.9	Lead:		
					Manganese:		
					Nickel:		

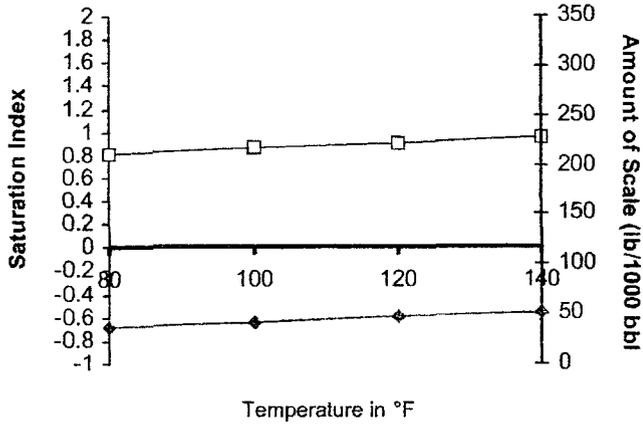
Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
°F	psi											psi
80	0	0.82	37.77	-0.03	0.00	-0.01	0.00	-0.22	0.00	1.74	1.46	0.44
100	0	0.87	42.46	-0.11	0.00	-0.02	0.00	-0.25	0.00	1.54	1.46	0.59
120	0	0.91	47.73	-0.17	0.00	-0.01	0.00	-0.26	0.00	1.36	1.46	0.77
140	0	0.95	53.29	-0.23	0.00	0.03	71.16	-0.27	0.00	1.20	1.46	0.99

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.
Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

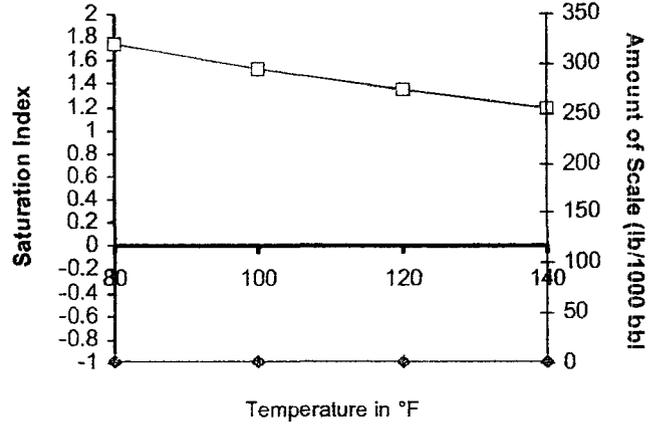
Scale Predictions from Baker Petrolite

Analysis of Sample 211640 @ 75 °F for MACK ENERGY INCORPORATED, 3/3/03

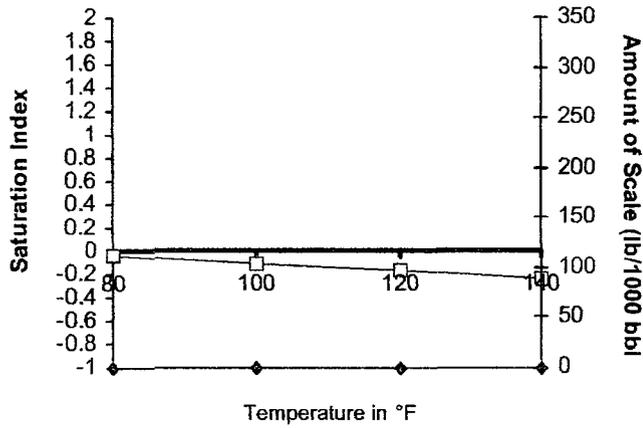
Calcite - CaCO₃



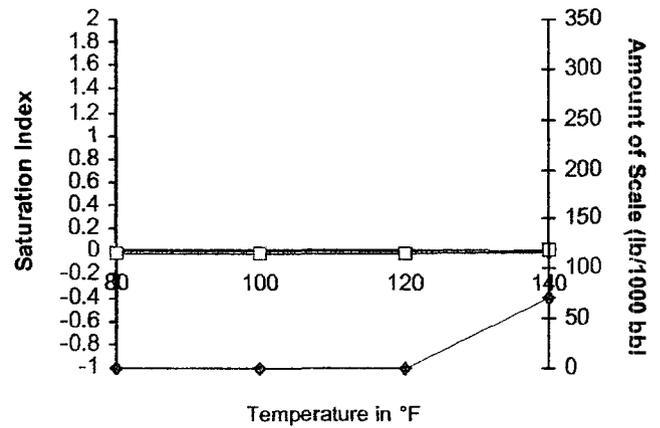
Barite - BaSO₄



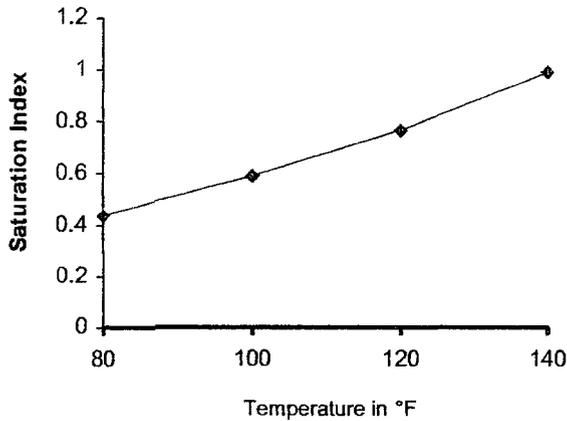
Gypsum - CaSO₄*2H₂O



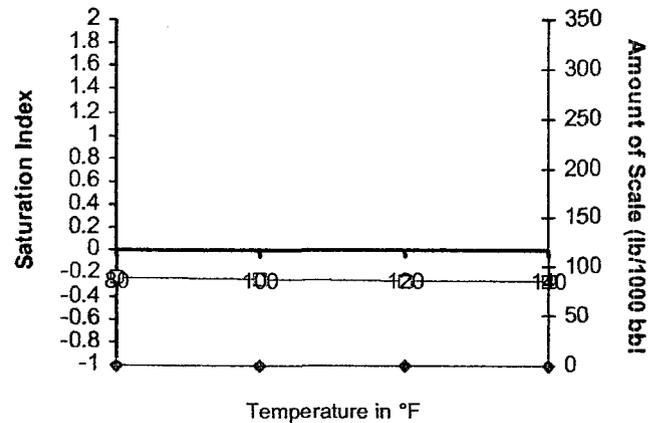
Anhydrite - CaSO₄



Carbon Dioxide Partial Pressure



Celestite - SrSO₄



North Permian Basin Region
P.O. Box 740
Sundown, TX 79372-0740
(806) 229-8121
Lab Team Leader - Sheila Hernandez
(432) 495-7240

Water Analysis Report by Baker Petrolite

Company:	MACK ENERGY INCORPORATED	Sales RDT:	33512
Region:	PERMIAN BASIN	Account Manager:	WAYNE PETERSON (505) 910-9389
Area:	ARTESIA, NM	Sample #:	329109
Lease/Platform:	DIAMOND BACK	Analysis ID #:	52313
Entity (or well #):	1	Analysis Cost:	\$40.00
Formation:	UNKNOWN <i>Grubburs Upper Penn</i>		
Sample Point:	WELLHEAD		

Summary		Analysis of Sample 329109 @ 75 °F					
Sampling Date:	6/15/05	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date:	6/21/05	Chloride:	122248.0	3448.17	Sodium:	56570.4	2460.67
Analyst:	STACEY SMITH	Bicarbonate:	62.2	1.02	Magnesium:	2165.0	178.1
TDS (mg/l or g/m3):	198414.7	Carbonate:	0.0	0.	Calcium:	16143.0	805.54
Density (g/cm3, tonne/m3):	1.139	Sulfate:	556.0	11.58	Strontium:	343.0	7.83
Anion/Cation Ratio:	1	Phosphate:			Barium:	0.1	0.
Carbon Dioxide:	50 PPM	Borate:			Iron:	25.0	0.9
Oxygen:	0 PPM	Silicate:			Potassium:	302.0	7.72
Comments:		Hydrogen Sulfide:		2 PPM	Aluminum:		
RESISTIVITY - 0.044 OHM-M @ 75°F		pH at time of sampling:		6.5	Chromium:		
		pH at time of analysis:			Copper:		
		pH used in Calculation:		6.5	Lead:		
					Manganese:		
					Nickel:		

Conditions Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Gauge Press.	Calcite CaCO ₃		Gypsum CaSO ₄ *2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄		CO ₂ Press
		Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	
80	0	0.16	1.16	-0.20	0.00	-0.18	0.00	-0.22	0.00	-0.66	0.00	0.11
100	0	0.23	1.74	-0.27	0.00	-0.18	0.00	-0.23	0.00	-0.85	0.00	0.14
120	0	0.29	2.32	-0.32	0.00	-0.16	0.00	-0.24	0.00	-1.01	0.00	0.17
140	0	0.36	2.89	-0.37	0.00	-0.11	0.00	-0.23	0.00	-1.16	0.00	0.2

Note 1: When assessing the severity of the scale problem, both the saturation index (Si) and amount of scale must be considered

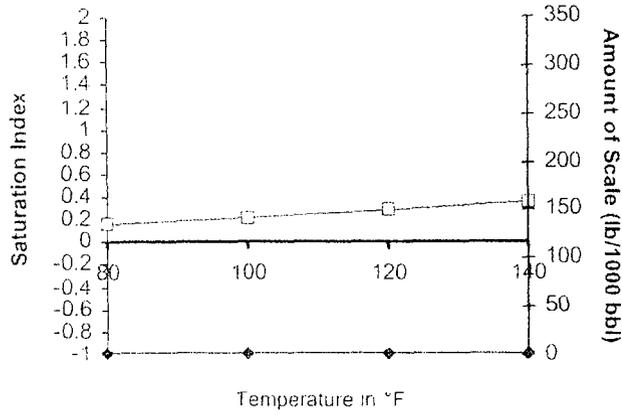
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

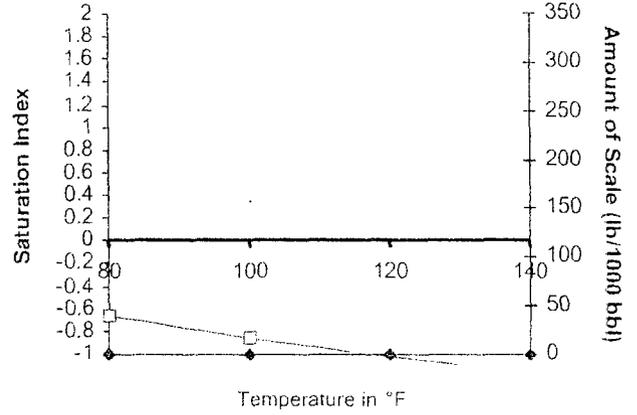
Scale Predictions from Baker Petrolite

Analysis of Sample 329109 @ 75 °F for MACK ENERGY INCORPORATED, 6/21/05

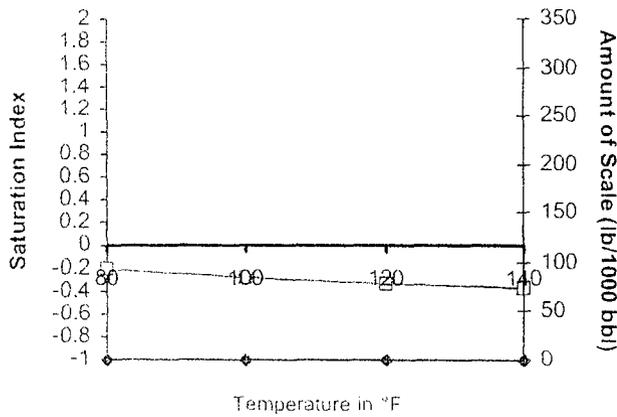
Calcite - CaCO₃



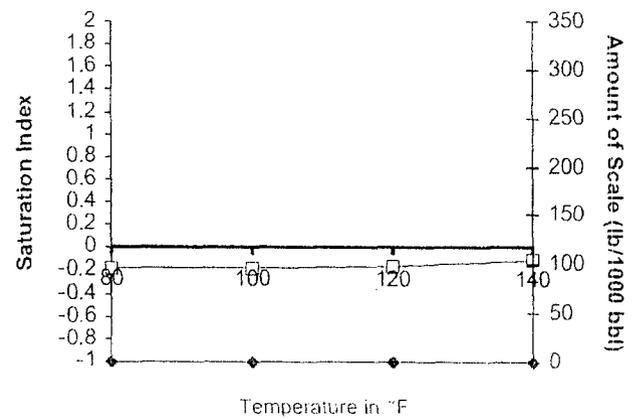
Barite - BaSO₄



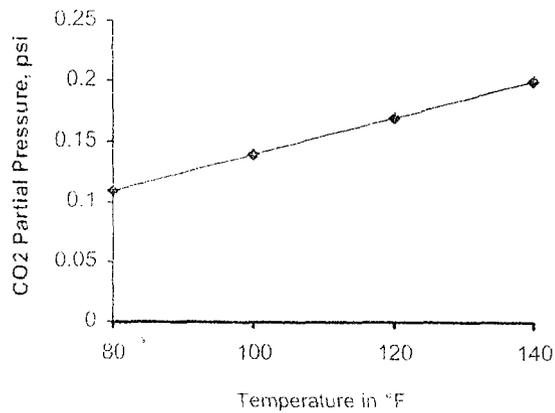
Gypsum - CaSO₄·2H₂O



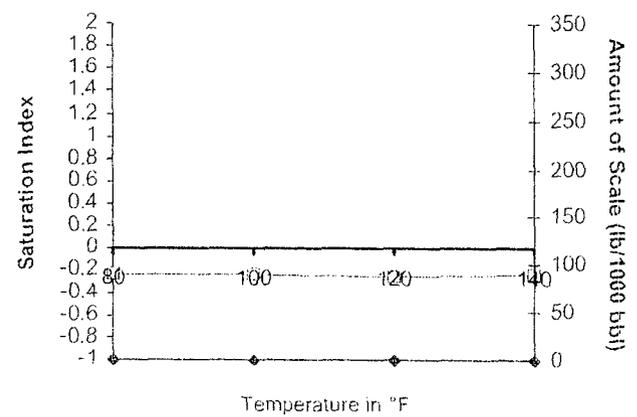
Anhydrite - CaSO₄



Carbon Dioxide Partial Pressure



Celestite - SrSO₄



Blue Streak Federal #1
Sec. 29 T17S R29E
1980 FSL & 660 FEL

- 3) There is a windmill $\frac{1}{2}$ mile south of this well. It is not producing therefore we are unable to acquire a sample.
- 4) BLM.

LEGAL NOTICE

COG Operating LLC, 550 W. Texas Suite 1300, Midland, TX 79701, has filed an Application with the New Mexico Oil Conservation Division seeking authorization to inject produced salt water in the Blue Streak Federal #1 Section 29, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico. The water will be injected into the Cisco formation at a disposal depth of 9150 feet to 9400 feet. Water will be injected at a maximum surface pressure of 300 pounds and a maximum injection rate of 3000 BWPD. Any interested party with questions or comments may contact Jerry W. Sherrell at Mack Energy Corporation, Post Office Box 960, Artesia, New Mexico 88211-0960 or call (505) 748-1288. Objections to this application or requests for hearing must be filed with the Oil Conservation Division, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87505, within fifteen days of the date of the publication of this notice.

Published in the Artesia Daily Press, Artesia, New Mexico, November 16, 2006.

Inactive Well List

Total Well Count:953 Inactive Well Count:3 Since:9/3/2005

Printed On: Monday, November 27 2006

District	API	Well	ULSTR	OCD Unit	OGRID	Operator	Lease Type	Well Type	Last Production	Formation/Notes	Status	Days in TA
1	30-025-27073	JALMAT YATES UNIT #010	4-7 -25S-37E	M	229137	COG OPERATING LLC	P	I	05/2001		T	1862
1	30-025-26870	JALMAT YATES UNIT #026	2-18-25S-37E	E	229137	COG OPERATING LLC	P	I	09/1995		T	2117
1	30-025-34973	MC FEDERAL #005	N-21-17S-32E	N	229137	COG OPERATING LLC	F	O	07/2003	PADDOCK	T	1857

WHERE Ogrid:229137, County:All, District:All, Township:All, Range:All, Section:All, Production(months):15

Injection Permit Checklist

SWD Order Number 1059 Dates: Division Approved _____ District Approved _____

Information Request Letter or Email sent 11/20/06

Well Name/Num: BLUESTREAK FEDERAL #1 Date Spudded: 8/11/74

API Num: (30-) 015-21308 County: EDDY

Footages 1980 FSL/660 FEL Sec 29 Tsp 17S Rge 29E

Operator Name: COG OPERATING LLC Contact Jerry W. Sherrill

Operator Address: 550 W. TEXAS, SUITE 1300 MIDLAND TX 79701

	Hole/Pipe Sizes	Depths	Cement	Top/Method
Surface	17 1/2 11 3/4	344'	300	Surf
Intermediate	11 8 5/8	2657'	300	1620' cml.
Production	7 7/8 5 1/2	6689'	750	6689 cml.
Last DV Tool		1047'		
Open Hole/Liner				
Plug Back Depth				

Diagrams Included (Y/N): Before Conversion After Conversion Re-Entry of P&A well

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

Intervals:	Depths	Formation	Producing (Yes/No)
Salt/Potash			
Capitan Reef			
Cliff House, Etc.	7309'	WC	
Formation Above	3600'	CISCO	
Top Inj Interval	9150	CISCO	
Bottom Inj Interval	9400	CISCO	
Formation Below	9798	S. Plam	

1830 PSI Max. WHIP
 Open Hole (Y/N)
 Deviated Hole (Y/N)

Fresh Water Site Exists (Y/N) Analysis Included (Y/N):

Salt Water Analysis: Injection Zone (Y/N/NA) NO Disposal Waters (Y/N/NA) NO Types: SBG, SA, PDK

Affirmative Statement Included (Y/N): Newspaper Notice Adequate (Y/N) _____ Well Table Adequate (Y/N) _____

Surface Owner: BLM Noticed (Y/N) Mineral Owner(s): BLM

AOR Owners: Conterra, Hayco, Hancher, OXY, RKC, WGRAM Noticed (Y/N) _____

CID/Potash/Etc Owners: _____ Noticed (Y/N) _____

AOR Num Active Wells 1 Repairs? _____ Producing in Injection Interval in AOR: NO

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

*Rule 40 = OK
 as of 11/20/06*

Data to Generate New AOR Table yes New Table Generated?

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

Conditions of Approval:
 1. P&A Diagrams
 2. Geol SECTION
 3. _____
 4. _____

RBDMS Updated (Y/N) _____
 UIC Form Completed (Y/N) _____
 This Form completed _____