

devon

ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611
FAX 405/552-4550

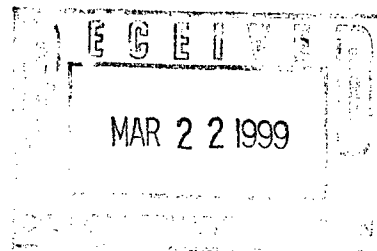
DHC 4/12/99

March 17, 1999

2272

Certified Mail No. Z 100 656 245

STATE OF NEW MEXICO
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505-6429



RE: Downhole Commingling
Falcon 3J Federal #13
Section J-3-18S-27E
API #30-015-29546
Red Lake (Q-GB-SA) and
NE Red Lake (Glorieta-Yeso) Fields
Eddy County, NM

Gentlemen:

Concerning the referenced, enclosed please find the Form C-107A Application for Downhole Commingling and attachments (and three copies). The offset operators and surface owner have been sent notification. We will forward the proof of notification to you as soon as we receive it.

Please direct inquiries concerning this report to Ernie Buttross at (405) 235-3611, X4509.

Yours truly,

DEVON ENERGY CORPORATION (NEVADA)

A handwritten signature in cursive script, appearing to read "Tonja Rutelonis".

Tonja Rutelonis
Engineering Tech.

/trr

Enclosures

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
811 South First St., Artesia, NM 88210-2835
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
New 3-12-96

APPROVAL PROCESS:
____ Administrative ____ Hearing
EXISTING WELLBORE
____ YES ____ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Devon Energy Corporation (Nevada) 20 N. Broadway, Suite 1500, Oklahoma City OK 73102-8260
Operator Address
Falcon 3J Federal 13 J - 3-18S-27E Eddy
Lease Well No. Unit Ltr. - Sec - Twp - Rge County
6137 20816 30-015-29546 X
OGRID NO. Property Code API NO. Federal , State , (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Red Lake (Q-GB-SA)		NE Red Lake (Glor-Yeso)
2. Top and Bottom of Pay Section (Perforations)	1632'-2406'		To be perforated 3200'-3400'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 50 psi producing BHP b. (Original)	a. b.	a. 100 psi producing BHP b.
6. Oil Gravity (°API) or Gas BTU Content	38.5°		41.6°
7. Producing or Shut-In?	Producing		Awaiting perfs
Production Marginal? (yes or no)	Yes		Expected to be marginal
• If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 2/9/99 Rates: 3 BOPD, 20 MCFGPD, 35 BWPD	Date: Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: 25 % Gas: 25 %	Oil: % Gas: %	Oil: 75 % Gas: 75 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☐ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____
16. ATTACHMENTS:
* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
* Production curve for each zone for at least one year. (If not available, attach explanation.)
* For zones with no production history, estimated production rates and supporting data.
* Data to support allocation method or formula.
* Notification list of all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tonia Rutelonis TITLE Engineering Technician DATE 3/16/99
TYPE OR PRINT NAME Tonia Rutelonis TELEPHONE NO. (405) 552-4515

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

EXHIBIT 2

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name	+ NE Red Lake
		Red Lake (O-GB-SA)	(Glorieta-Yeso)
Property Code	Property Name	Well Number	
	FALCON 3 J FEDERAL	13	
OGRID No.	Operator Name	Elevation	
	DEVON ENERGY CORPORATION	3557.5'	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	3	18 S	27 E		2310	SOUTH	2410	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	OPERATOR CERTIFICATION I hereby certify the information contained herein is true and complete to the best of my knowledge and belief. <u>E. L. Buttross, Jr.</u> Signature <u>E. L. Buttross, Jr.</u> Printed Name <u>District Engineer</u> Title <u>March 25, 1997</u> Date
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. <u>March 10, 1997</u> Date Surveyed <u>Gary L. Jones</u> Signature Professional Surveyor <u>W.O. Num. 70221</u> Certificate No. GARY L. JONES. 7977

2 EAGLE 33P-14

EAGLE 34M-26 EAGLE 34N-28

HARD 5

T FED 1

LOGAN
LOGAN FED

5 HONDO 3

FALCON 3D-5

FALCON 3C-3

DEVON

MANN 2

FALCON 3B-1

MALCO-FED 2

MANN 1

H FED 2

MALCO-FED 9

FALCON 3C-4

FALCON 3B-2

MALCO FED 8

MALCO FED

BA 3

-0255302 ARCO

HONDO B-2

RED LAKE 3 FED 1

FALCON 3G-7
402.88 .AC

FALCON 3H-10

E

7.28 AC

RED LAKE 3 FED 2

LC-065478-B

FALCON 3G-4

RED GR. AC

MALCO FED 2

AT-2

J-8

H FED B-1

HUDSON B 1

HUDSON A 1

(30-0135-00)

MALCO FED 6

WINDFOHR FED 4-1

MANN FED 3-1

FALCON 3K-15

MANN 3

FALCON 3J-13

MALCO FED 4

B-2 B

3-A

WINDFOHR FED 4-2

MANN FED 3-2

MANN-FED 2

FALCON 3K-16

MALCO-FED 5

MALCO FED 1

AT-1

FOHR FED 4-7

MANN FED 3-3

FALCON 3N-18

FALCON 3N-17

PLUTCH/DEVON

MANN F B-2

MANN-FED B 1

FED 4-6

MANN-FED 1

MALCO-FED 3

MALCO FED 3-4

MALCO FED E 2

(30-0146-00)

MAN B 4

AEU L 123

A-1

WINDFOHR FED 4-8

FALCON 3N-17

HAWK 30-1

MAN-025604

MALCO RE-FED 1

AEU L 121

AEU L 122

AEU L 134

HAWK 9A-1

HAWK 10D-3

FED 2

HAWK 10C-1

FALCON 10B-3

AEU M 121

FALCON 10A-1

NM-025604

MALCO G 1

LC-065478-B

MALCO FED

M-12

-4

Falcon 3 J Federal #13

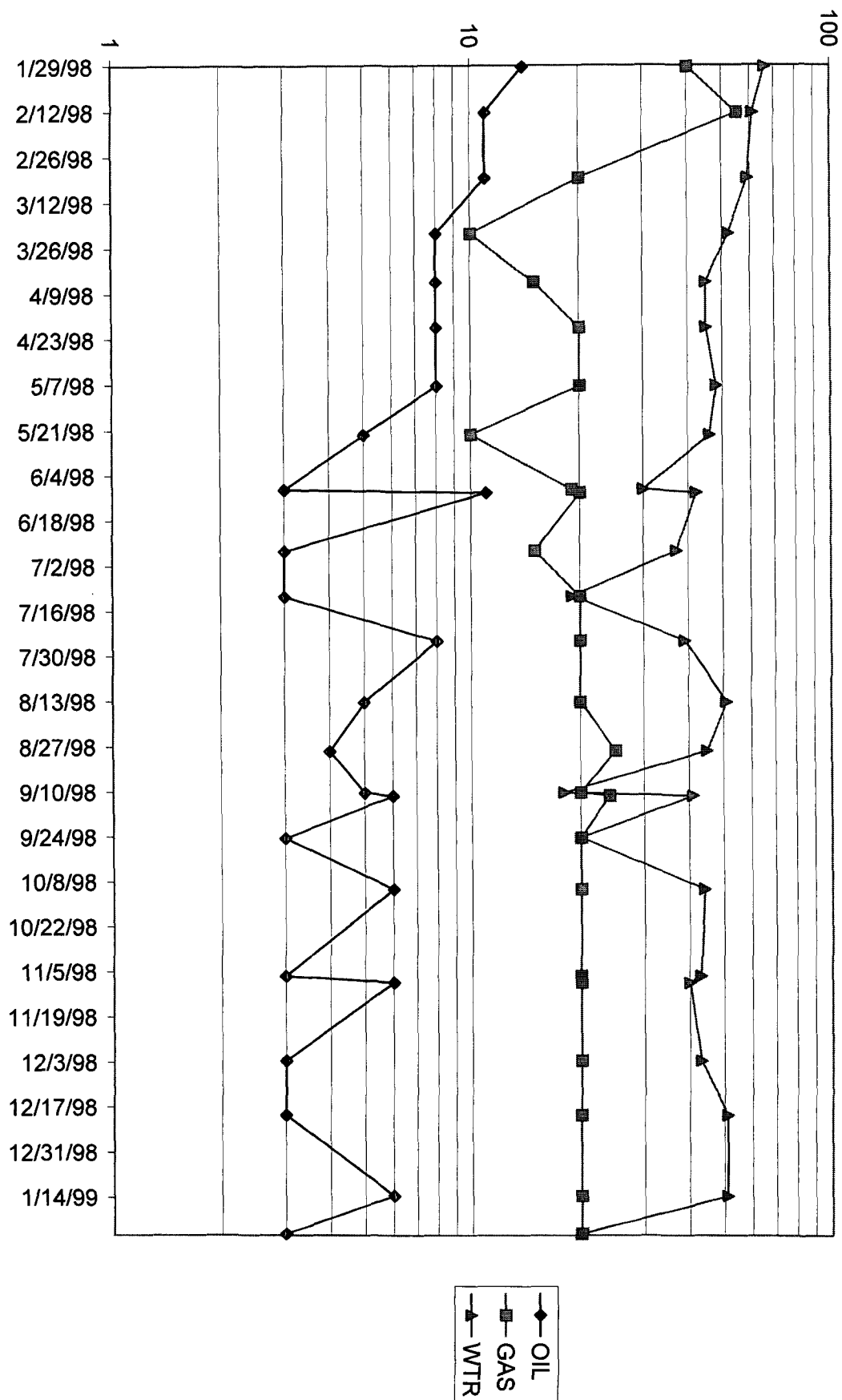
Allocation Formula

Well Name	Producing Formation	*Daily Production Test	% of Total
		3 mo. average	
Falcon 3 J Federal #13	Red Lake (Q-GB-SA)	4 BO/20 MCF/41 BW	25 %
ARCO-Redlake 3 Federal #1 (offset Yeso producer)	NE Red Lake (Glor-Yeso)	12 BO/22 MCF/116 BW	75 %

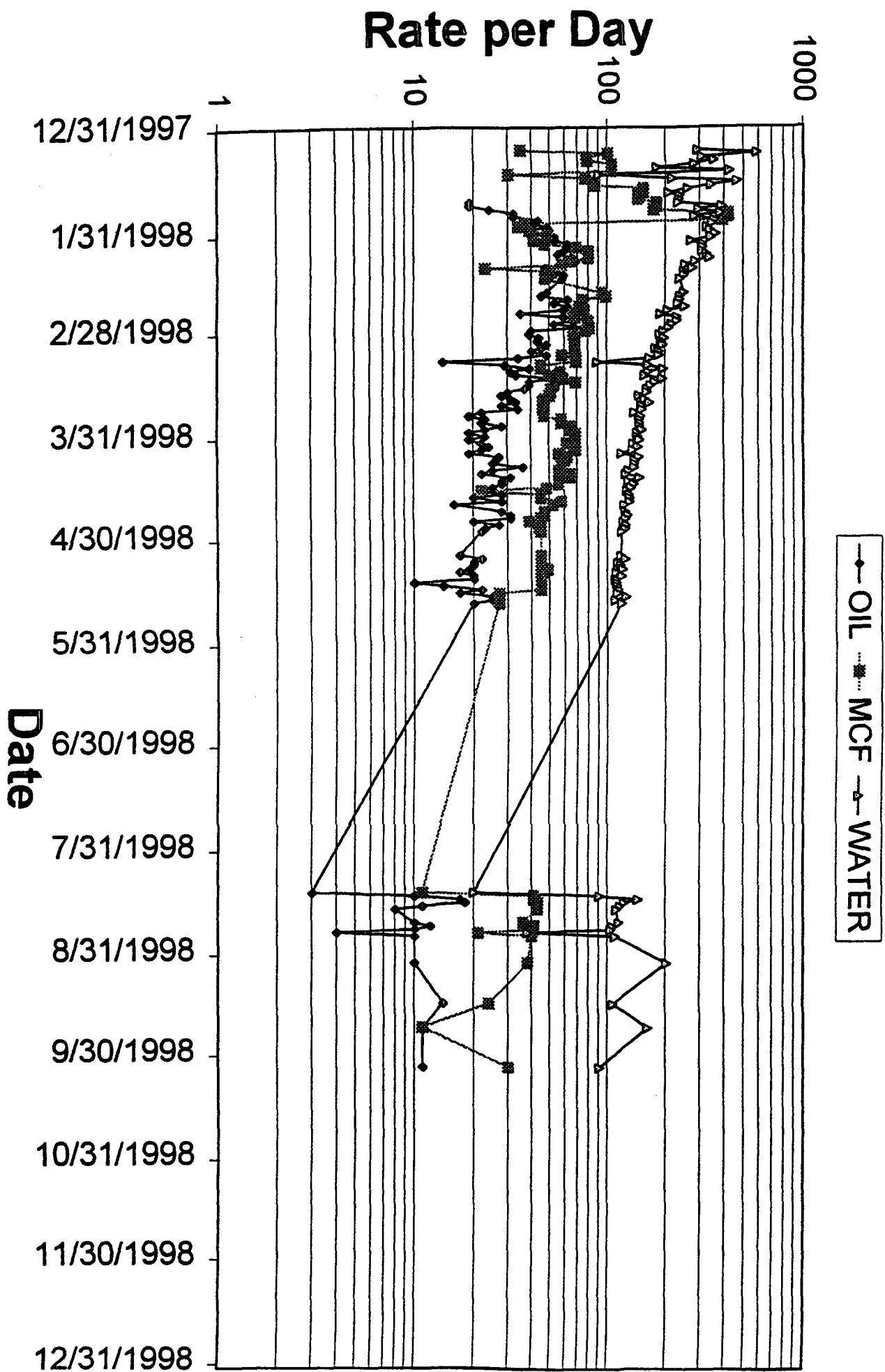
* From attached production plots

The above production test represents stable production from a San Andres producer (Falcon 3 J Federal #13) and a Yeso producer (Redlake 3 Federal #1). We believe these rates of production represent an acceptable means to allocate production. **ARCO has previously received approval for downhole commingling in these fields utilizing a similar allocation method.**

Falcon 3 J Federal #13 (San Andres)



Redlake 3 Federal #1 (Yeso)



Devon Energy Corporation (Nevada)
Downhole Commingling
Falcon 3 J Federal #13
API 30-015-29546
2310' FSL & 2410' FEL, Unit "J"
Section 3-18S-27E
Eddy County, New Mexico

Surface Owners for Unit J:

Bureau of Land Management
2909 West Second Street
Roswell, NM 88201

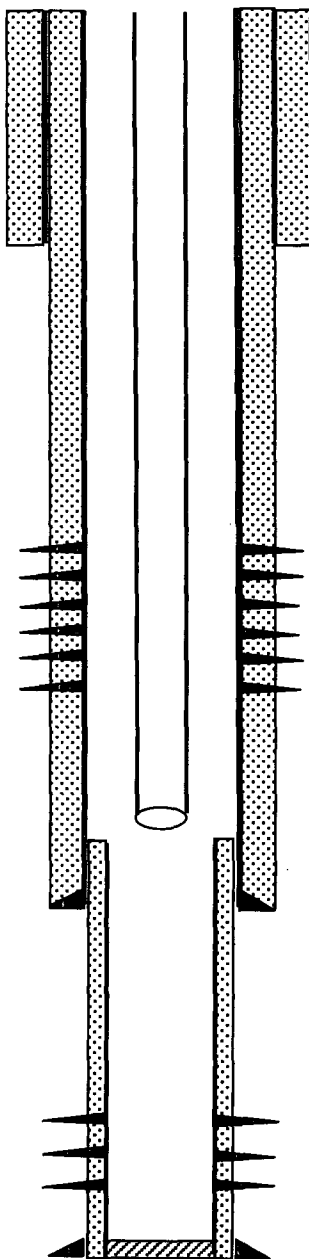
Offset Operators:

Altura Energy, Ltd.
Attn: Mr. Jerry D. West
P.O. Box 4294
Houston, TX 77210-4294

ARCO Permian
P.O. Box 1610
Midland, TX 79702-1610

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

WELL NAME: Falcon 3J Federal #13			FIELD: Red Lake			
LOCATION: 2310' FSL & 2410' FEL, Sec. 3-18S-27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL = 3558', KB = 3567'			SPUD DATE: 6/16/97		COMP DATE: 7/11/97	
API#: 30-015-29546		PREPARED BY: E. Buttross			DATE: 3/11/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 1164'	8-5/8"	24#	J-55		12-1/4"
CASING:	0' - 2699'	5 1/2"	15.5#	J-55		7-7/8"
LINER:	2650' - 3750'	4"	10.46#	J-55	FL4S	4-3/4"
TUBING:	0' - 2620'	2-7/8"	6.5#	J-55	8RD EUE	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 1164' w/ 550 sxs cmt. TOC @ surface

SAN ANDRES PERFORATIONS:

1632'- 2406' (30 holes, .40", U. SA, ALPHA, "A", "B", "C", & "D")

2-7/8" tbg w/ SN @ 2620'

TOL @ 2650'

5 1/2" 15.5# J-55 Casing Set @ 2699' w/ 575 sxs cmt. TOC @ surf.

YESO PERFORATIONS:

±3200'- ±3400' (20 HOLES, .38")

PBTD @ 3710'

4" 10.46# J-55 FL4S Liner set @ 2650'- 3750' (TOC @ TOL)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OPERATOR'S OFFICE

FORM APPROVED

WELL COMPLETION OR RECOMPLETION REPORT AND RECEIPT

AUG 18 '97

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Otherb. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR ☐ Other

2. NAME OF OPERATOR

DEVON ENERGY CORPORATION (NEVADA)

3. ADDRESS AND TELEPHONE NO.

20 N. BROADWAY, SUITE 1500, OKC, OK 73102-8260 (405) 235-3611

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 2310' FNL & 2410' FEL, Unit "J"

At top prod. interval reported below (SAME)

At total depth (SAME)

14. PERMIT NO.

DATE ISSUED

4/24/97

12. COUNTY OR PARISH

Eddy County

13. STATE

NM

15. DATE SPUDDED

6/17/97

16. DATE T.D. REACHED

6/26/97

17. DATE COMPL. (Ready to prod.)

7/11/97

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

KB 3567'; GL 3558'; DF 3566'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

2699'

21. PLUG, BACK T.D., MD & TVD

2651'

22. IF MULTIPLE COMPL., HOW MANY*

NA

23. INTERVALS

DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

San Andres - 1632-2406'

25. WAS DIRECTIONAL SURVEY

MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

LDT/CNL/DLL/MSFL/GR; CBL

27. WAS WELL CORED

No

28.

CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	BOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" J-55	24#	1164'	12-1/4"	surf; 350 sxs lite & 200 sxs "C"	NA
5-1/2" J-55	15.5#	2699'	7-7/8"	surf; 275 sxs lite C & 300 sxs "C"	NA

29.

LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	2105'	(OET)

31. PERFORATION RECORD (Interval, size and number)

1632'-1739' U SAN ANDRES (4-40" EHD holes)

1961' ALPHA (1-40" EHD holes)

2126'-2191' "A" (5-40" EHD holes)

2208'-2274' "B" (9-40" EHD holes)

2305'-2331' "C" (5-40" EHD holes)

2343'-2406' "D" (6-40" EHD holes)

33.*

PRODUCTION

DATE FIRST PRODUCTION 7/20/97 PRODUCTIONS METHOD 1 (Flowing, gas lift, pumping—size and type of pump) Pumping (2-1/2" x 2" x 12' RWTC Pump)

WELL STATUS (Producing or shut-in)

Producing

DATE OF TEST 3/1/97 HOURS TESTED 24 CHOKE SIZE PROD'N FOR TEST PERIOD OIL-BBL. 57 GAS-MCF. 57 WATER-BBL. 404 GAS-OIL RATIO 1000/1

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL-BBL. 57 GAS-MCF. 57 WATER-BBL. 404 OIL GRAVITY-API (CORR.) 38

4. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY
Danny Hoketa

5. LIST OF ATTACHMENTS

Logs, Deviation Surveys

6. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Crystal Thornton

Crystal Thornton
TITLE ENGINEERING TECHNICIAN

DATE August 11, 1997

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

9-4-97



Analysis: 22526

Water Analysis Report from Baker Petrolite

Summary of Mixing Waters		
Sample Number	105254	114048
Company	DEVON ENERGY	DEVON ENERGY
Lease Well Sample Location	FALCON FED INJECTION PLANT FWKO (SAN ANDRES)	LOGAN 35 FEDERAL # 9 WELLHEAD (YESO)
Anions (mg/L)		
Chloride	113,807	103,984
Bicarbonate	634	1,000
Carbonate	0.00	0.00
Sulfate	4,235	4,864
Phosphate	0.00	0.00
Borate	0.00	0.00
Silicate	0.00	0.00
Cations (mg/L)		
Sodium	72,258	66,833
Magnesium	491	387
Calcium	2,287	2,063
Strontium	49.0	39.0
Barium	0.10	0.30
Iron	0.20	5.00
Potassium	390	302
Aluminum	0.00	0.00
Chromium	0.00	0.00
Copper	0.00	0.00
Lead	0.00	0.00
Manganese	0.00	0.00
Nickel	0.00	0.00
Anion/Cation Ratio	1.00	1.00
TDS (mg/L)	194,151	179,478
Density (g/cm)	1.13	1.12
Sampling Date	7/20/98	12/8/98
Account Manager	CURRY FRUIT	STEVE STROUD
Analyst	SHEILA DEARMAN	SHEILA HERNANDEZ
Analysis Date		12/19/98
pH at time of sampling	6.70	6.10
pH at time of analysis		
pH used in Calculations	6.70	6.10

PRODUCT WARRANTY, DISCLOSURE AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET



Analysis: 22526

Water Analysis Report from Baker Petrolite

Mixes at 80°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl												
Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
105254	114048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	6.06	0.19	33.0	-0.04		-0.02		-0.08		0.92	0.14
25%	75%	4.83	0.22	33.8	-0.04		-0.02		-0.08		0.82	0.11
50%	50%	3.56	0.28	35.8	-0.05		-0.02		-0.07		0.70	0.08
100%	0%	0.96	0.66	45.6	-0.06		-0.03		-0.07		0.36	0.03

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: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

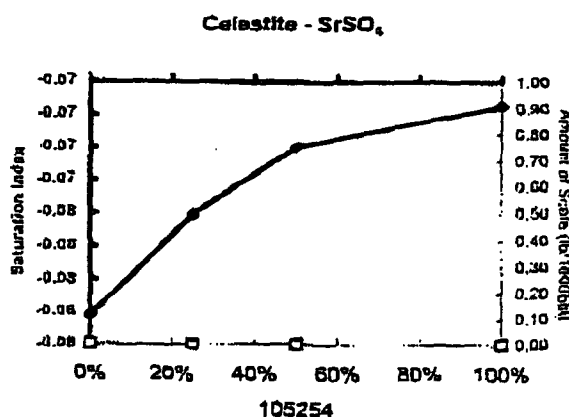
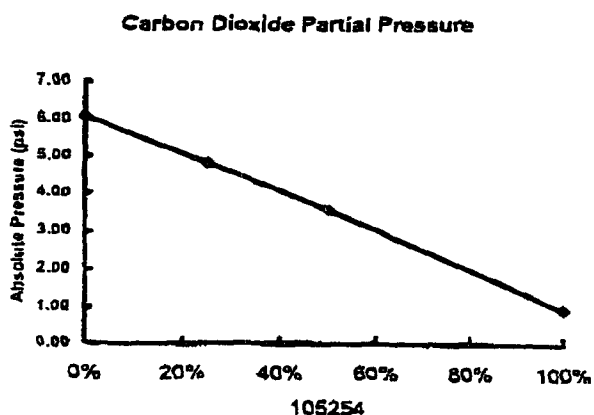
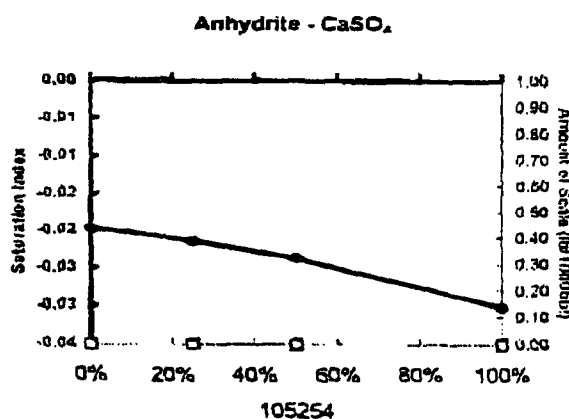
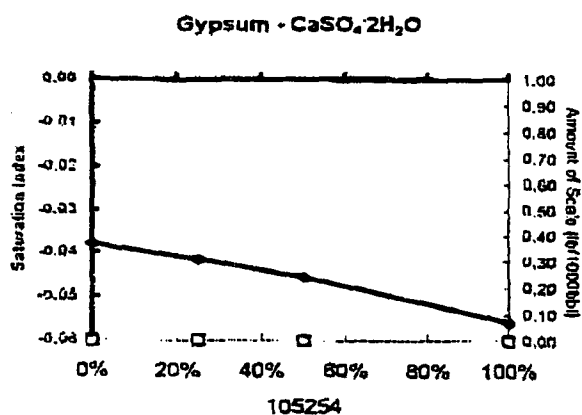
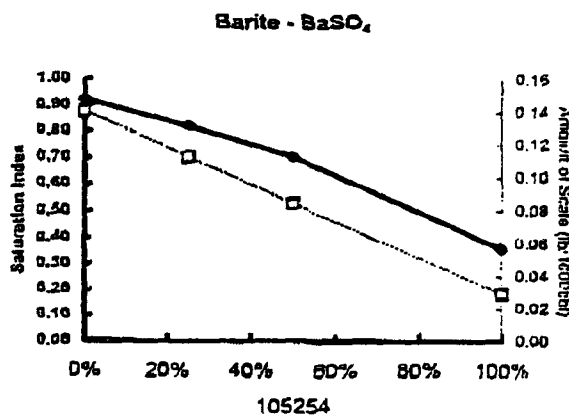
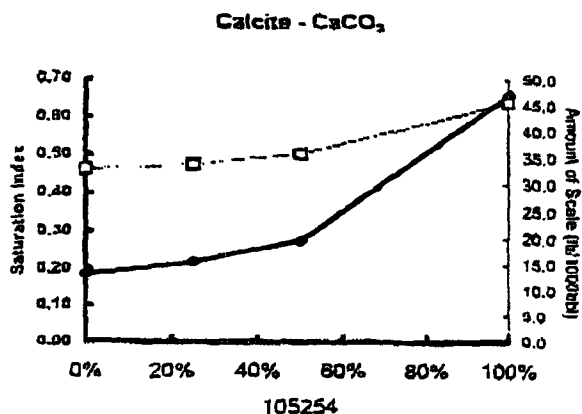
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET



Analysis: 22526

Mixture Predictions from Baker-Petrolite

105254 with 114048 at 80°F and 0 psi



PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET



A Baker Hughes Company

Analysis: 22526

Water Analysis Report from Baker Petrolite

Mixes at 100°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl

Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
105254	114048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	7.42	0.28	49.0	-0.12		-0.03		-0.11		0.72	0.13
25%	75%	5.91	0.31	47.6	-0.12		-0.03		-0.11		0.61	0.10
50%	50%	4.36	0.36	47.4	-0.13		-0.04		-0.10		0.50	0.07
100%	0%	1.21	0.72	52.3	-0.14		-0.05		-0.10		0.15	0.02

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

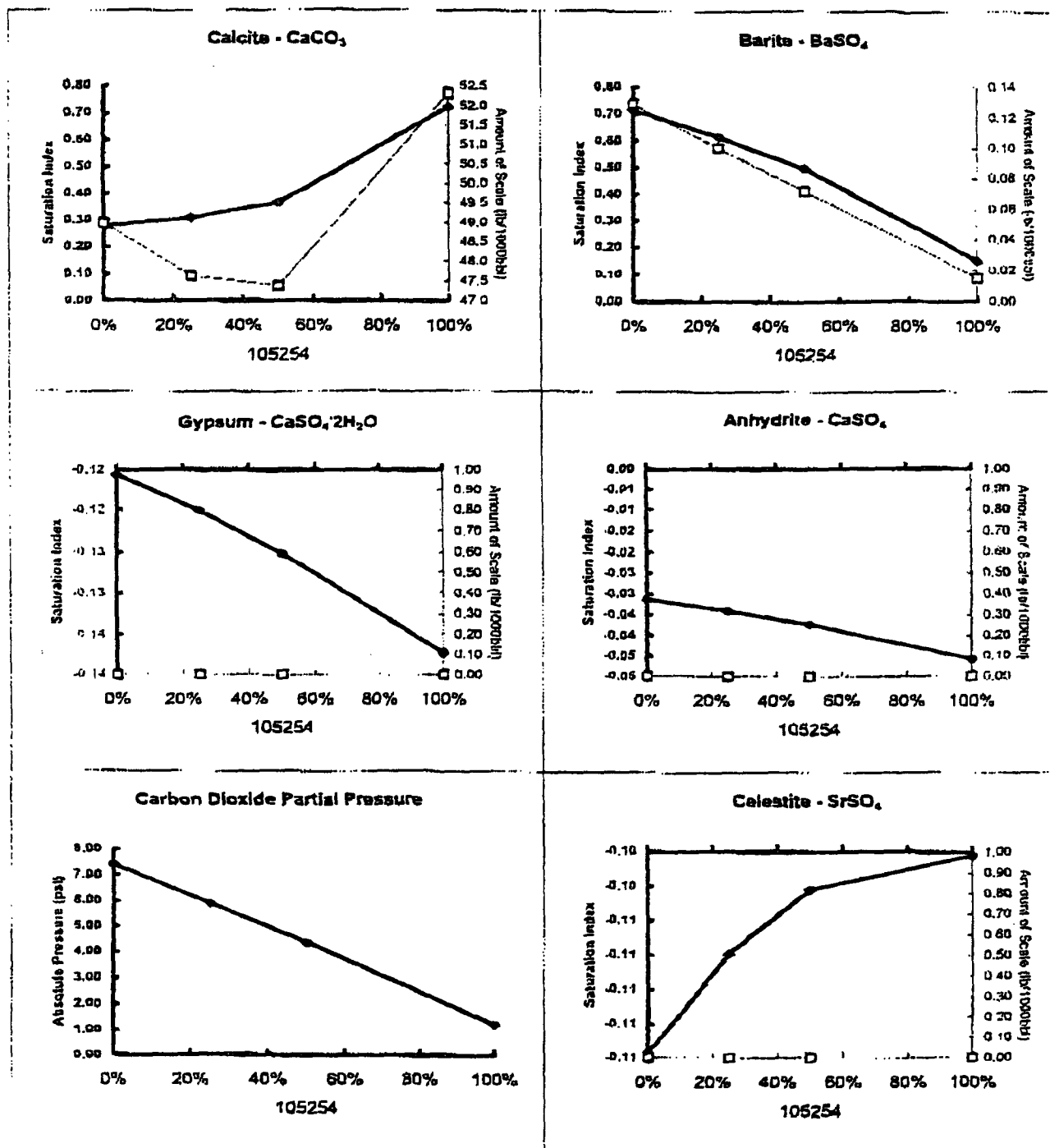
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

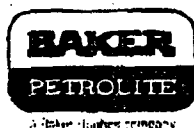
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

Mixture Predictions from Baker-Petrolite

105254 with 114048 at 100°F and 0 psi



THESE PREDICTIONS ARE BASED ON THE ASSUMPTIONS MADE IN THE BAKER-PETROLITE MODEL. WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET.



Analysis: 22526

Water Analysis Report from Baker Petrolite

Mixes at 120°F and 0 psi

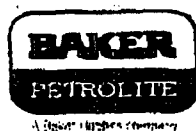
Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl												
Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
105254	114048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	8.77	0.37	65.2	-0.18		-0.02		-0.13		0.53	0.11
25%	75%	6.98	0.40	61.7	-0.19		-0.02		-0.13		0.43	0.08
50%	50%	5.16	0.45	59.1	-0.19		-0.03		-0.12		0.31	0.05
100%	0%	1.50	0.78	59.3	-0.21		-0.04		-0.12		-0.04	

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: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

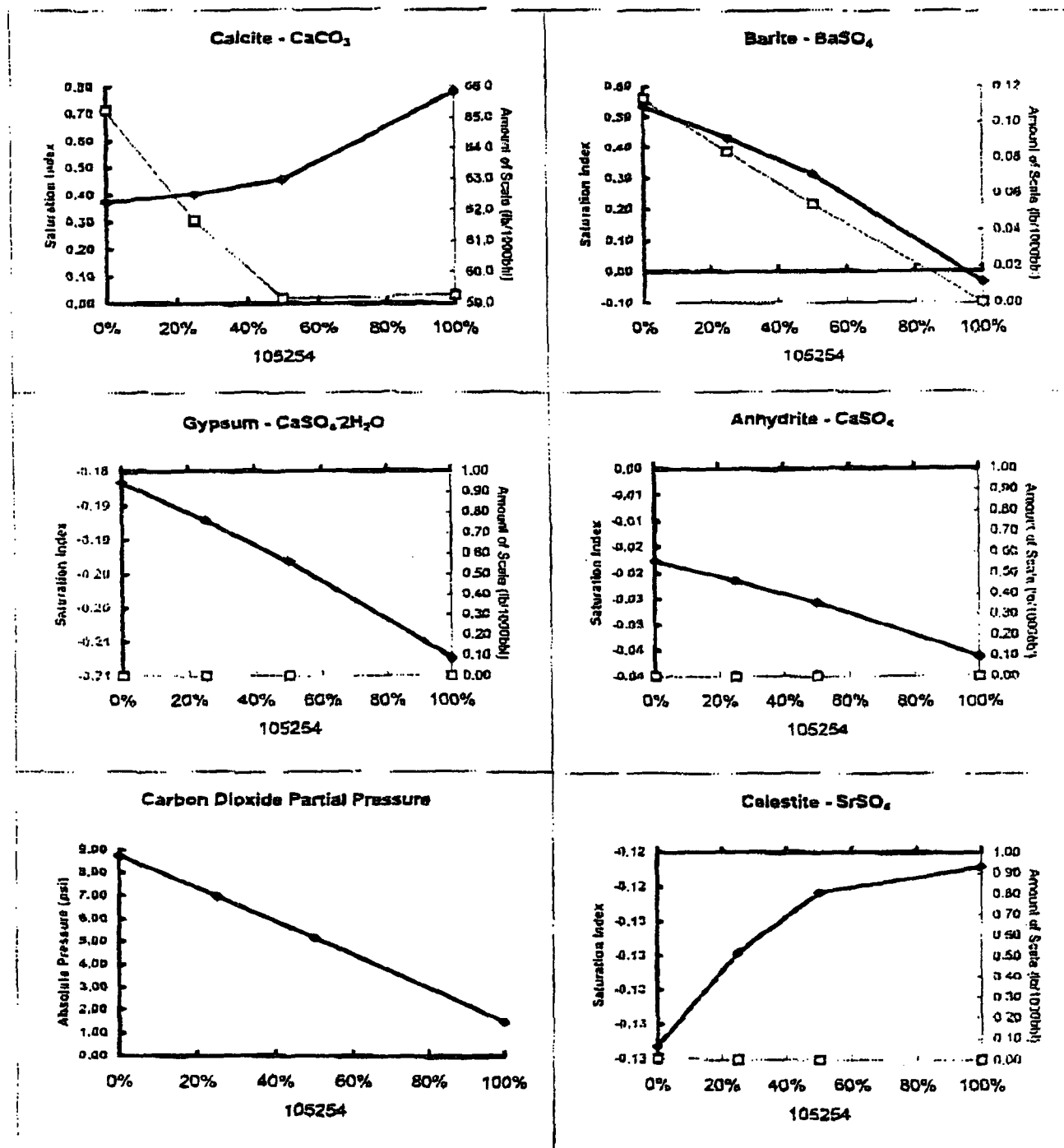
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET



Analysis: 22526

Mixture Predictions from Baker-Petrolite

105254 with 114048 at 120°F and 0 psi



PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET



A Baker Industries Company

Analysis: 22526

Water Analysis Report from Baker Petrolite

Mixes at 140°F and 0 psi

Predictions of Carbon Dioxide Pressure, Saturation Index and Amount of Scale in lb/1000bbl

Mix Waters		CO ₂	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
105254	114048	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
0%	100%	10.1	0.47	81.8	-0.24		0.02	45.8	-0.14		0.38	0.09
25%	75%	8.0	0.50	76.1	-0.24		0.01	33.6	-0.14		0.27	0.06
50%	50%	5.9	0.55	71.3	-0.25		0.01	20.0	-0.13		0.15	0.03
100%	0%	1.8	0.84	66.6	-0.27		-0.00		-0.13		0.20	

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: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

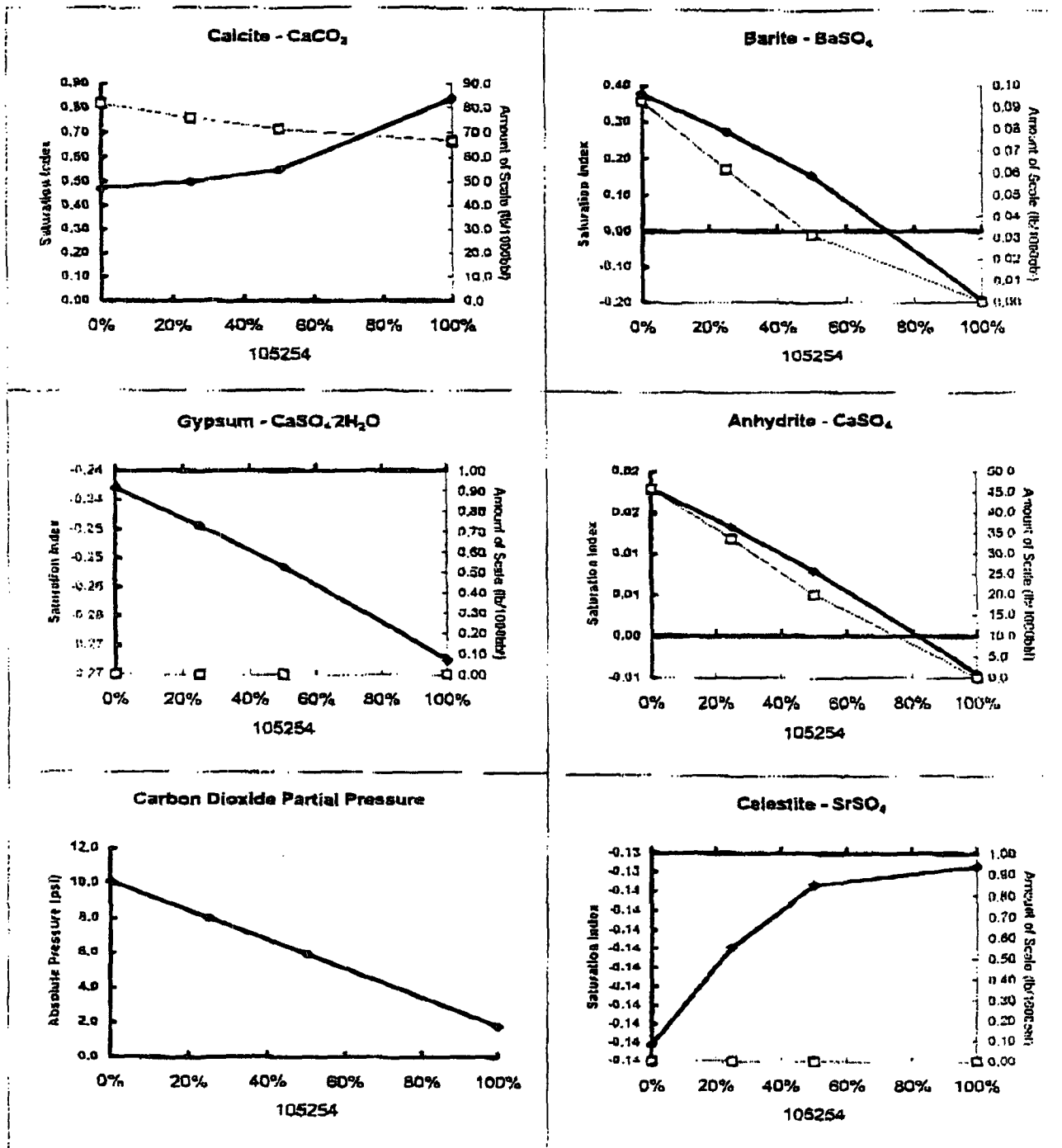
PRODUCT WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET



Analysis: 22526

Mixture Predictions from Baker-Petrolite

105254 with 114048 at 140°F and 0 psi



PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

Laboratory Services, Inc.

4016 Fiesta Drive

Hobbs, New Mexico 88240

Telephone: (505) 397-3713

SULFUR IN CRUDE OIL

Devon Energy

P. O. Box 250

Artesia, New Mexico 88211-0250

Dec 18, 1998

Total
SulfurAPI
Gravity @ 60° FSpecific
Gravity @ 60° F

Logan 35-9

0.4888 wt. %

41.8

0.8174

(YESO)

Thank You,
Rolland Perry

Post-It™ brand fax transmittal memo 767	
# of pages 1	
To: <i>Buttano</i>	From: <i>Buttano</i>
Co.	Co.
Dept.	Phone #
Fax #	



Mobile Analytical Laboratories

LABORATORIES IN ODESSA, BIDDINGS & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET
P.O. BOX 69210
ODESSA, TEXAS 79769-0210
PHONE 337-4744
FAX 337-8781

MR. ROLLAND W. PERRY
LABORATORY SERVICES
1331 TASKER DR.
HOBBS, NEW MEXICO 88240

FEBRUARY 07, 1997

DEAR MR PERRY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR OIL SAMPLES FOR SULFUR
CONTENT AND GRAVITY, RECEIVED 02/03/97, LAB NOS. 260-263:

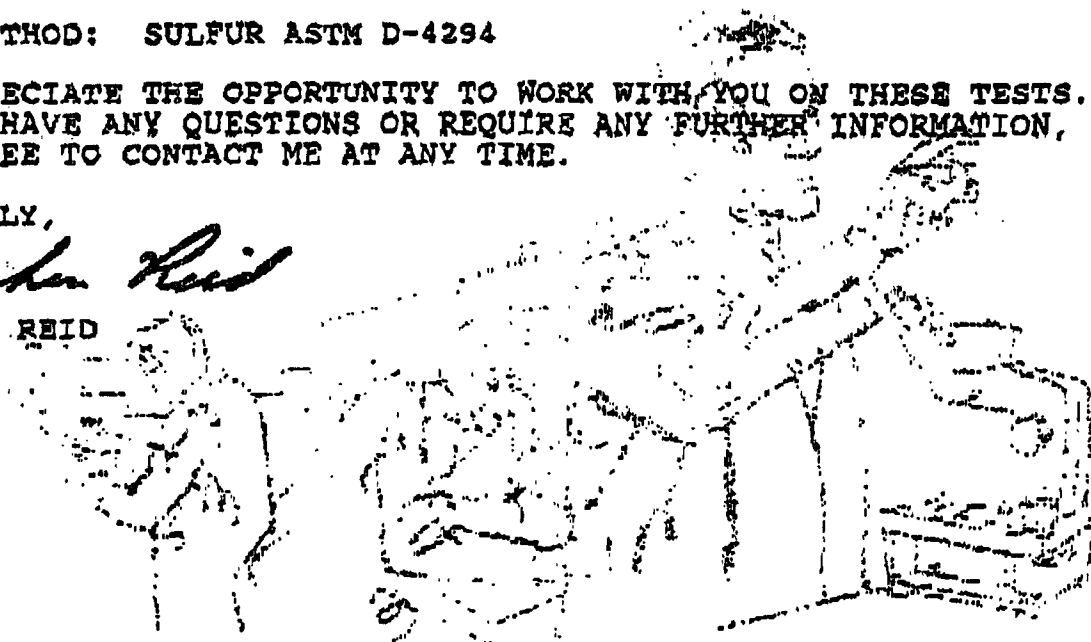
	SULFUR	API GRAVITY @ 60 °F	SPECIFIC GRAVITY @ 60 °F
LAB NO. 260: DEVON ENERGY FALCON 3 "B" FED #1 (SAN ANDRES) 01/30/97	0.547 wt%	38.5	0.8325
LAB NO. 261: DEVON ENERGY EAGLE 33 "O" FED #11 01/30/97	0.556 wt%	38.4	0.8327
LAB NO. 262: DEVON ENERGY EAGLE 33 "N" FED #9 01/30/97	0.651 wt%	37.4	0.8377
LAB NO. 263: DEVON ENERGY EAGLE 34 "M" FED #25 01/30/97	0.565 wt%	37.3	0.8384

TEST METHOD: SULFUR ASTM D-4294

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS.
IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE
FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

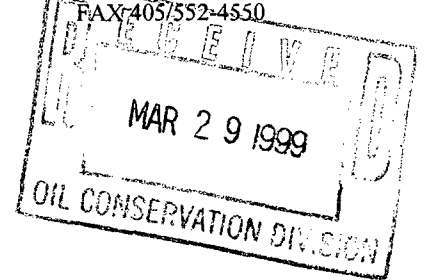
STEPHEN REID
SR/dt



devon
ENERGY CORPORATION

20 North Broadway, Suite 1500
Oklahoma City, Oklahoma 73102-8260

Telephone 405/235-3611
FAX 405/552-4550



March 26, 1999

Certified Mail No. Z 068 588 916

STATE OF NEW MEXICO
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505-6429

RE: Downhole Commingling
Falcon 3J Federal #13
Section J-3-18S-27E
API #30-015-29546
Red Lake (Q-GB-SA) and
NE Red Lake (Glorieta-Yeso) Fields
Eddy County, NM

Gentlemen:

Devon Energy Corporation filed the above-referenced downhole commingling application (Form C-107-A) on March 17, 1999. The offset operators and surface owner were sent copies of the application. Attached please find proof of notification.

If you have any questions, please call me at (405) 552-4515.

Yours truly,

DEVON ENERGY CORPORATION (NEVADA)

Tonja Rutelonis
Engineering Tech.

/trr
Attachment

Falcon 3T Fed 13 Downhole Comm. Surface Owner Notif Sunday

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Bureau of Land Management
2909 West Second Street
Roswell, NM 88201

4a. Article Number

Z 447 031 728

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

3-22-99

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X *[Signature]*

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-8-0229

Domestic Return Receipt

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

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- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

ARCO Permian
P.O. Box 1610
Midland, TX 79702

4a. Article Number

Z 447 031 727

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

MAR 22 1999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-8-0229

Domestic Return Receipt

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- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. ☐ Addressee's Address
- 2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Altura Energy, Ltd.
P.O. Box 4294
Houston, TX 77210-4294

4a. Article Number

Z 447 031 726

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

MAR 22 1999

5. Received By: (Print Name)

6. Signature: (Addressee or Agent)

X

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1994

102595-98-8-0229

Domestic Return Receipt

Falcon 3T Fed 13 Downhole Comm. Offset operator notif.

Thank you for using Return Receipt Service.

Thank you for using Return Receipt Service.

Thank you for using Return Receipt Service.