

devon
ENERGY CORPORATION

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

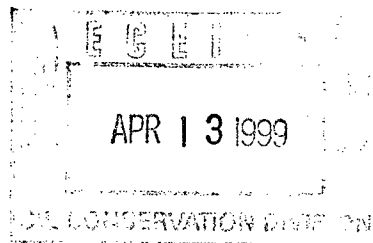
Telephone 405/235-3611
FAX 405/552-4550

DHC 5/3/99

April 7, 1999

Certified Mail No. Z 068 588 917

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



RE: Downhole Commingling
Eagle 33N Federal #9
Section N-33-17S-27E
API #30-015-29080
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)

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 Eagle 33N Federal Well No. 9 Address N - 33-17S-27E Eddy
Lease 6137 Property Code 20816 Unit Ltr. - Sec - Twp - Rge 30-015-29080 Spacing Unit Lease Types: (check 1 or more) X
OGRID 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)	1758'-2222'		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	a.	a. 100 psi producing BHP
	b. (Original)	b.	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 • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
	Date: 3/22/99 Rates: 5 BOPD, 20 MCFGPD, 21 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 4/7/99
TYPE OR PRINT NAME Tonia Rutelonis TELEPHONE NO. (405) 552-4515

DISTRICT I
P.O. Box 1990, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

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
1040 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 51300	Pool Name Red Lake (Q-GB-SA) + (Glorieta yeso)
Property Code	Property Name Eagle 33 "N" Federal	Well Number 9
OGRID No. 6137	Operator Name Devon Energy Corporation (Nevada)	Elevation 3544'

Surface Location

UL or lot No. N	Section 33	Township 17 S	Range 27 E	Lot Idn	Feet from the 990	North/South line South	Feet from the 1650	East/West line West	County Eddy
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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 40	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 that the information contained herein is true and complete to the best of my knowledge and belief. <u>E.L. Buttross Jr.</u> Signature E.L. Buttross, Jr. Printed Name District Engineer Title June 28, 1996 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. June 3, 1996 Date Surveyed Signature & Seal of Professional Surveyor <u>W.D. No. 6202r</u> Certificate No. Gary L. Jones 7977 BASIN SURVEYS	

Eagle 33 N Federal #9

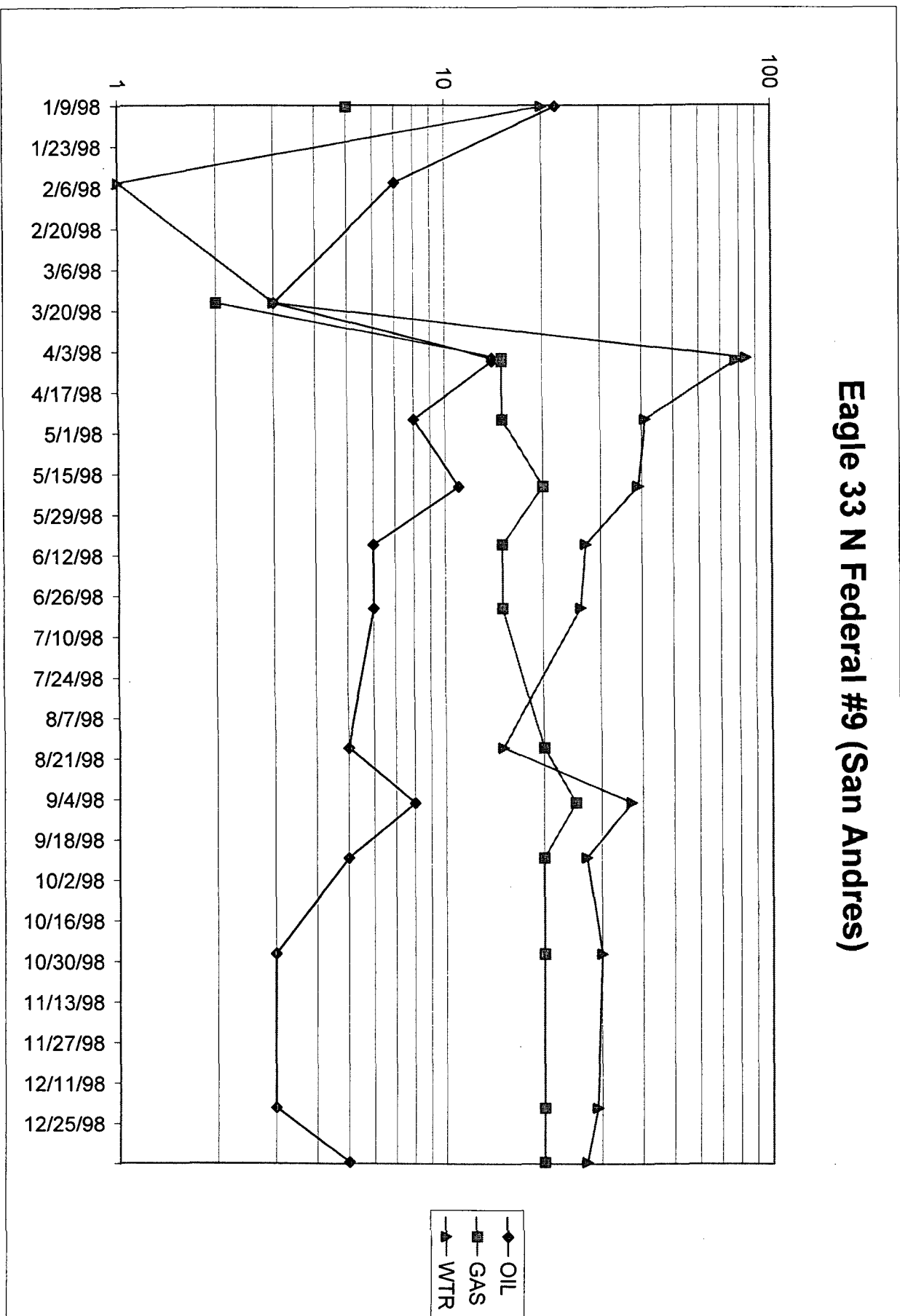
Allocation Formula

Well Name	Producing Formation	*Daily Production Test		
		3 mo. average	% of Total	
Falcon 3 J Federal #13	Red Lake (Q-GB-SA)	4 BO/20 MCF/29 BW	25 %	48%
ARCO-Redlake 3 Federal #1 (offset Yeso producer)	NE Red Lake (Glor-Yeso)	12 BO/22 MCF/116 BW	75 %	52%

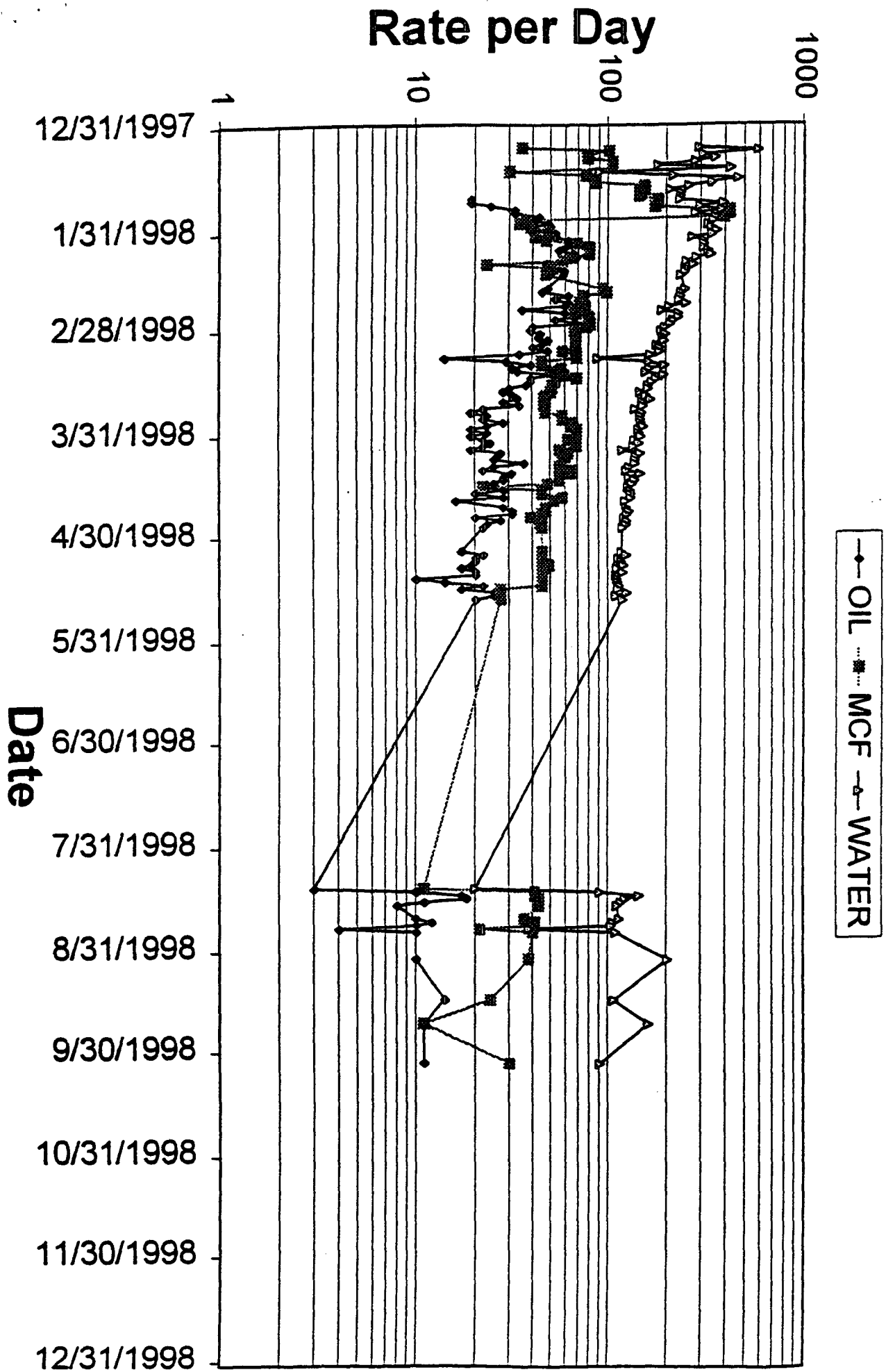
* From attached production plots

The above production test represents stable production from a San Andres producer (Eagle 33N Federal #9) and a Yeso producer (ARCO-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.**

Eagle 33 N Federal #9 (San Andres)



Redlake 3 Federal #1 (Yeso)



Devon Energy Corporation (Nevada)
Downhole Commingling
Eagle 33N Federal #9
API 30-015-29080
990' FSL & 1650' FWL, Unit N
Section 33-T17S-R27E
Eddy County, New Mexico

Surface Owners for Unit N:

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

Offset Operators:

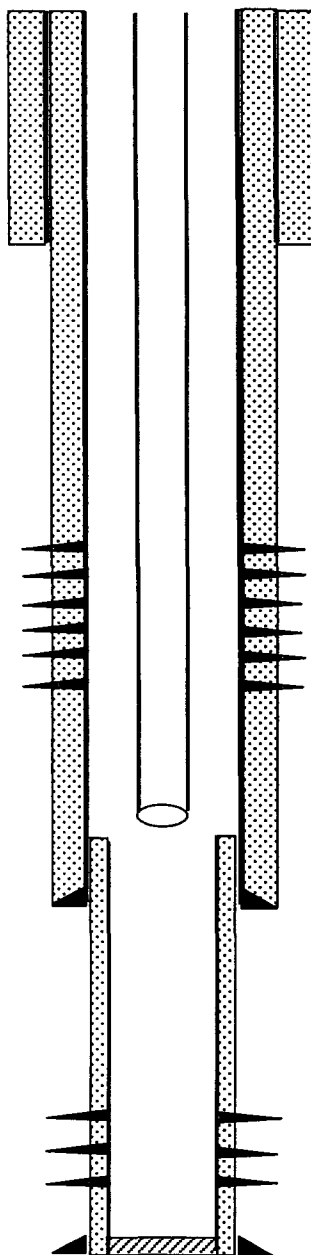
Altura Energy, Ltd.
Attn: Mr. Jerry D. West
P.O. Box 4294
Houston, TX 77210-4294

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

Yates Petroleum Corporation
105 S. 4th, Yates Building
Artesia, NM 88210

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

WELL NAME: Eagle 33N Federal #9			FIELD: Red Lake			
LOCATION: 990' FSL & 1650' FWL, Sec. 33-17S-27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL = 3544', KB = 3553'			SPUD DATE: 1/5/97		COMP DATE: 1/26/97	
API#: 30-015-29080		PREPARED BY: E. Buttross			DATE: 3/15/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 1059'	8-5/8"	24#	J-55		12-1/4"
CASING:	0' - 2499'	5 1/2"	15.5#	J-55		7-7/8"
LINER:	2650' - 3750'	4"	10.46#	J-55	FL4S	4-3/4"
TUBING:	0' - 2370'	2-7/8"	6.5#	J-55	8RD EUE	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 1059' w/ 650 sxs cmt. TOC @ surface

SAN ANDRES PERFORATIONS:

1758'- 2222' (30 holes, .40", ALPHA, "A", "B", "C", & "D")

2-7/8" tbg w/ SN @ 2370'

TOL @ 2400'

5 1/2" 15.5# J-55 Casing Set @ 2499' w/ 450 sxs cmt. TOC @ surf.

YESO PERFORATIONS:

±2950'- ±3250' (20 HOLES, .38")

PBTD @ 3610'

4" 10.46# J-55 FL4S Liner set @ 2400'- 3650' (TOC @ TOL)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

ROUTING ORIGINAL
FORM APPROVED

FILE COPY

OPERATOR'S COPY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐

b. 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 990' FSL & 1650' FWL; Unit "N"

At top prod. interval reported below (SAME)

At total depth (SAME)

ACCEPTED FOR RECORD

APR 01 1997

14. PERMIT NO.

DATE ISSUED

7/31/96

12. COUNTY OR PARISH

Eddy County

13. STATE

NM

15. DATE SPUDDED

1/5/97

16. DATE T.D. REACHED

1/10/97

17. DATE COMPL. (Ready to prod.)

1/26/97

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

KB 3553'; GL 3544'; DF 3552'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

2499'

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

2453'

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 - 1758-2222'

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)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8-5/8" J-55	24#	1059'	12-1/4"	surf; 400 sxs lite & 250 sxs "C"	NA
5-1/2" J-55	15.5#	2499'	7-7/8"	surf; 150 sxs lite C & 30 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"	2126	(OET)

30.

TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

1758-1886' ALPHA (7 - .40" EHD holes)

1953-2015' "A" (7 - .40" EHD holes)

2036-2094' "B" (6 - .40" EHD holes)

2112-2162' "C" (6 - .40" EHD holes)

2178-2222' "D" (4 - .40" EHD holes)

32. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1758-2222'	2500 gals of 15% NeFe acid
1758-2222'	1000 gals PrePad + 2 drum Pro-Kem scale inhibitor
	+ 216,000 gals 10/20# gel water + 6000# 100 mesh sand + 134,000# 20/40 & 143,000# 16/30 sand

33.*

PRODUCTION

DATE FIRST PRODUCTION	PRODUCTIONS METHOD 1 (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
1/1/97	Pumping (2-1/2" x 2" x 12' RWTC Pump)	Producing
DATE OF TEST	HOURS TESTED	CROCK SIZE
2/24/97	24	
PROD'N FOR TEST PERIOD	OIL-BBL.	GAS-MCF.
	67	70
WATER-BBL.	GAS-OIL RATIO	
195	1044/1	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE
		67
OIL-BBL.	GAS-MCF.	WATER-BBL.
67	70	195
OIL GRAVITY-API (CORR.)		38

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

Vented (To be connected)

TEST WITNESSED BY

Danny Hokett

35. LIST OF ATTACHMENTS

Logs, Deviation Surveys

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

SIGNED Liliana KeysDIANA KEYS
TITLE ENGINEERING TECHNICIAN

DATE February 13, 1997

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

DISTRIBUTED



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 PWKO (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 PRUIT	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, USE, AIMS 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	114043	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	45.5	-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.

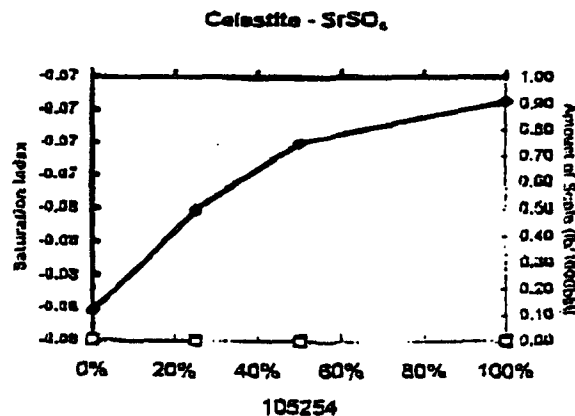
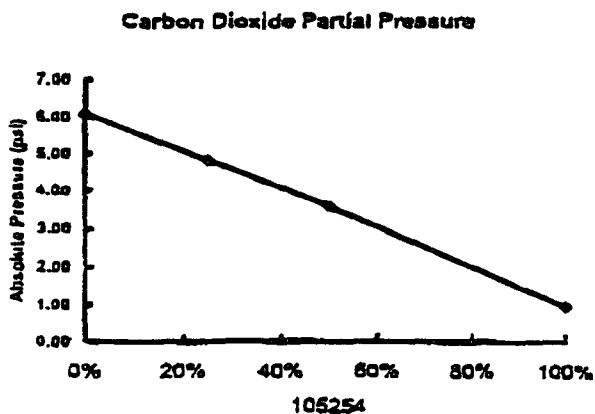
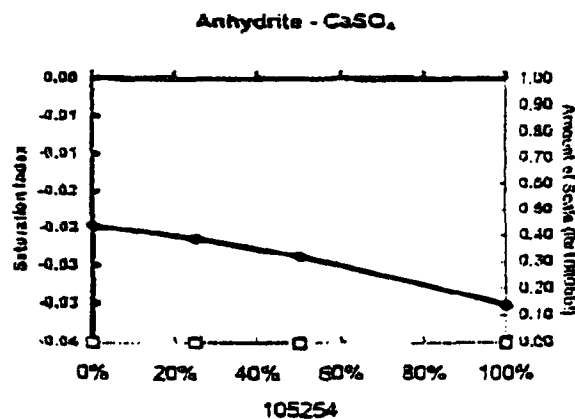
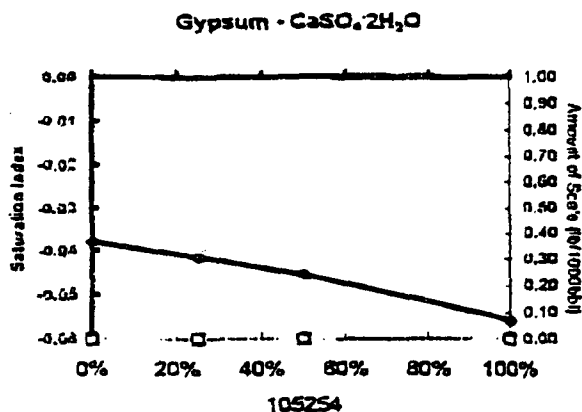
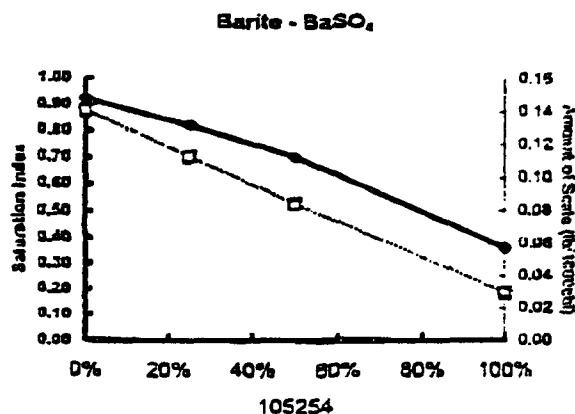
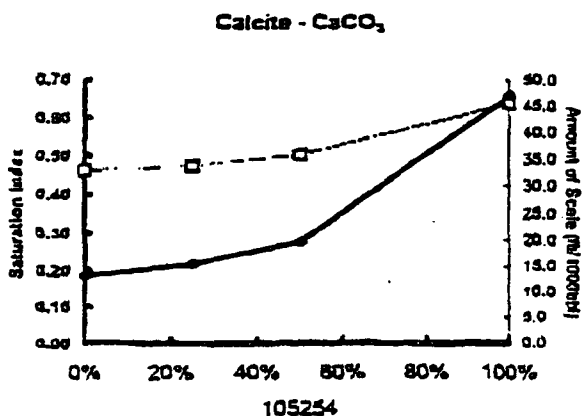
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

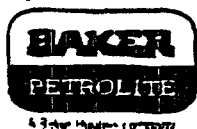
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

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



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.

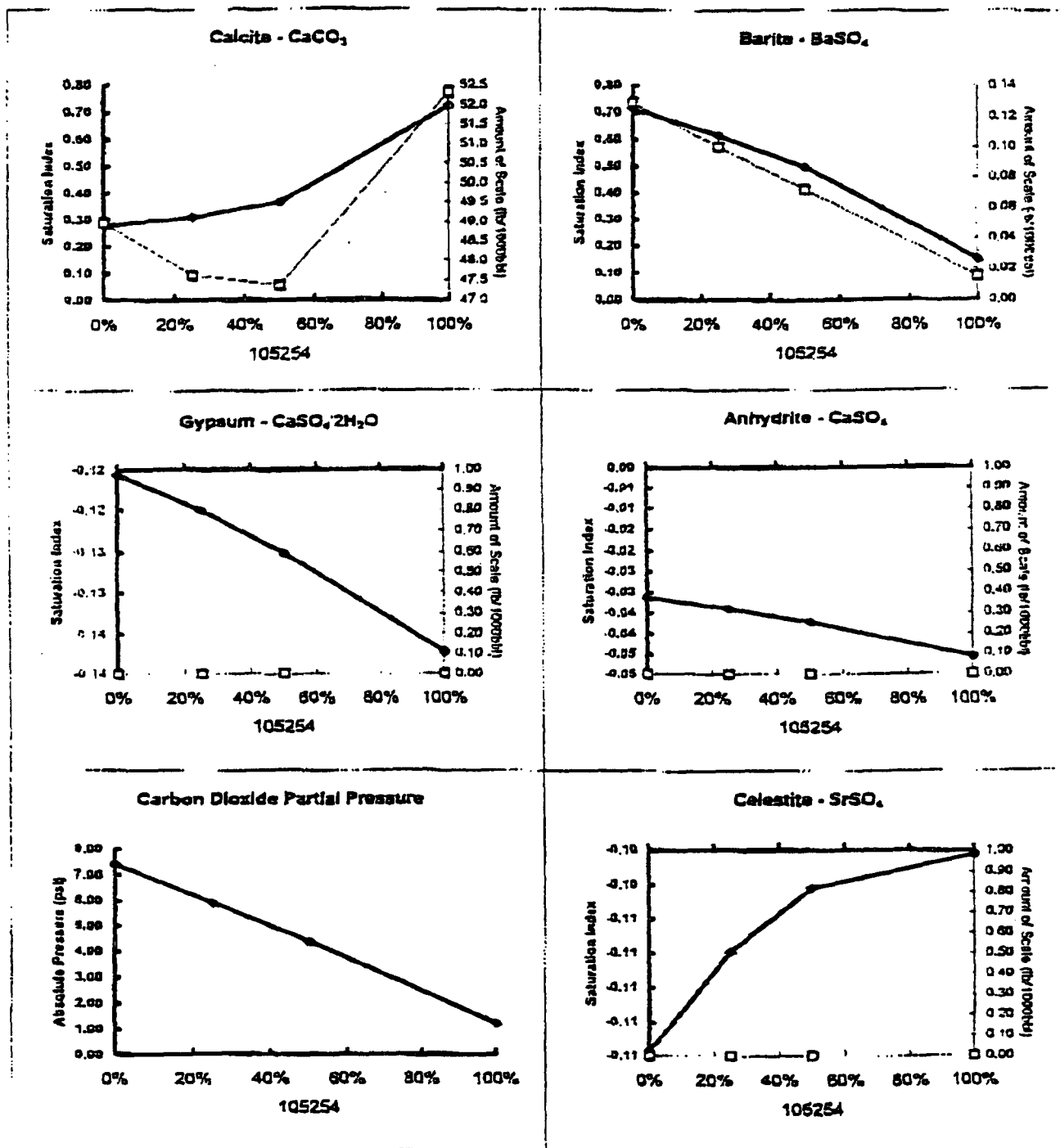
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

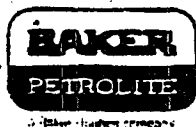
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

INITIAL PREDICTIONS FROM BAKER-PETROLITE

105254 with 114048 at 100°F and 0 psi



(INDUCTION) 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.

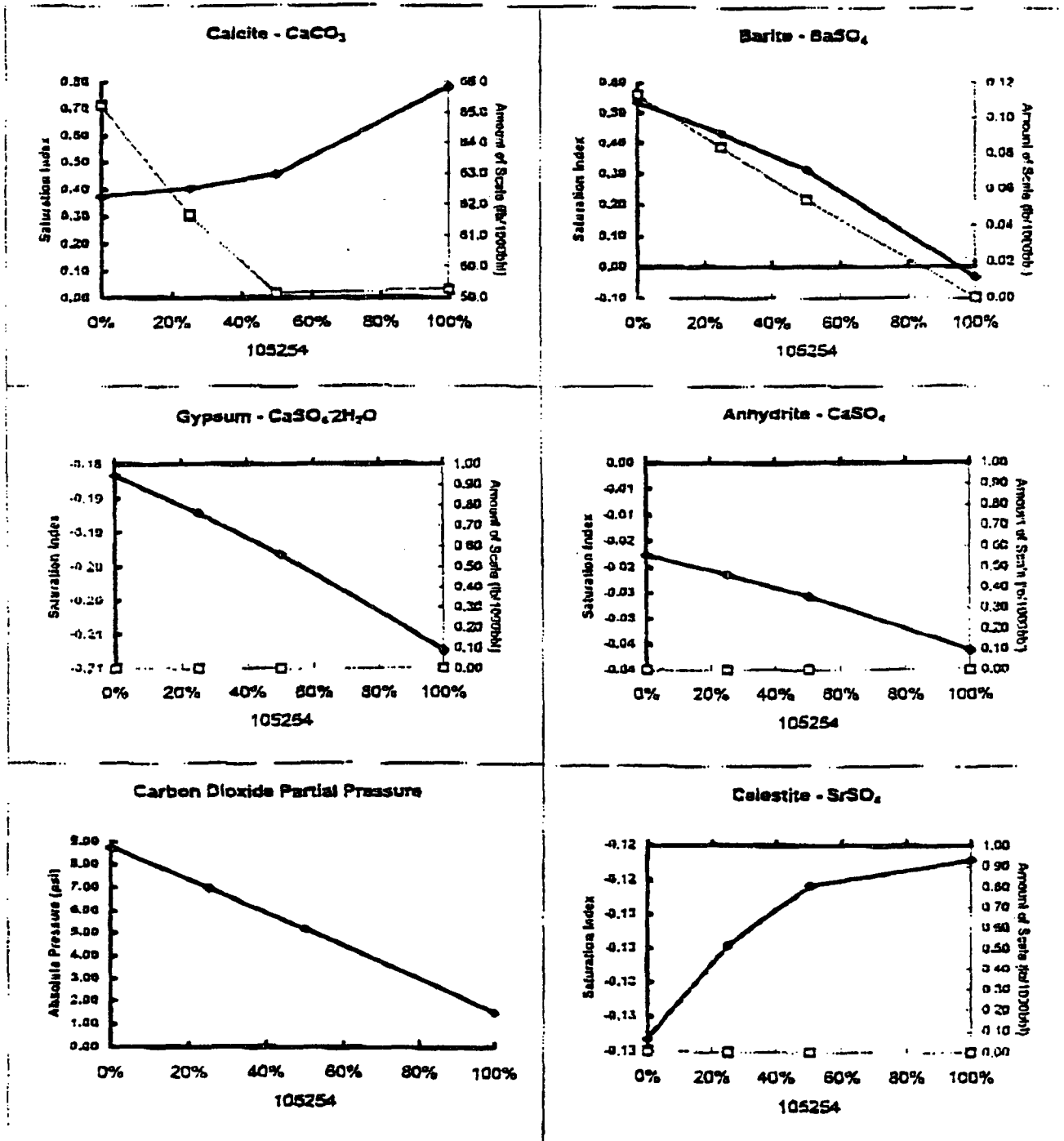
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

Mixture Predictions from Baker-Petrolite

105254 with 114848 at 120°F and 0 psi



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



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		0.01	

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

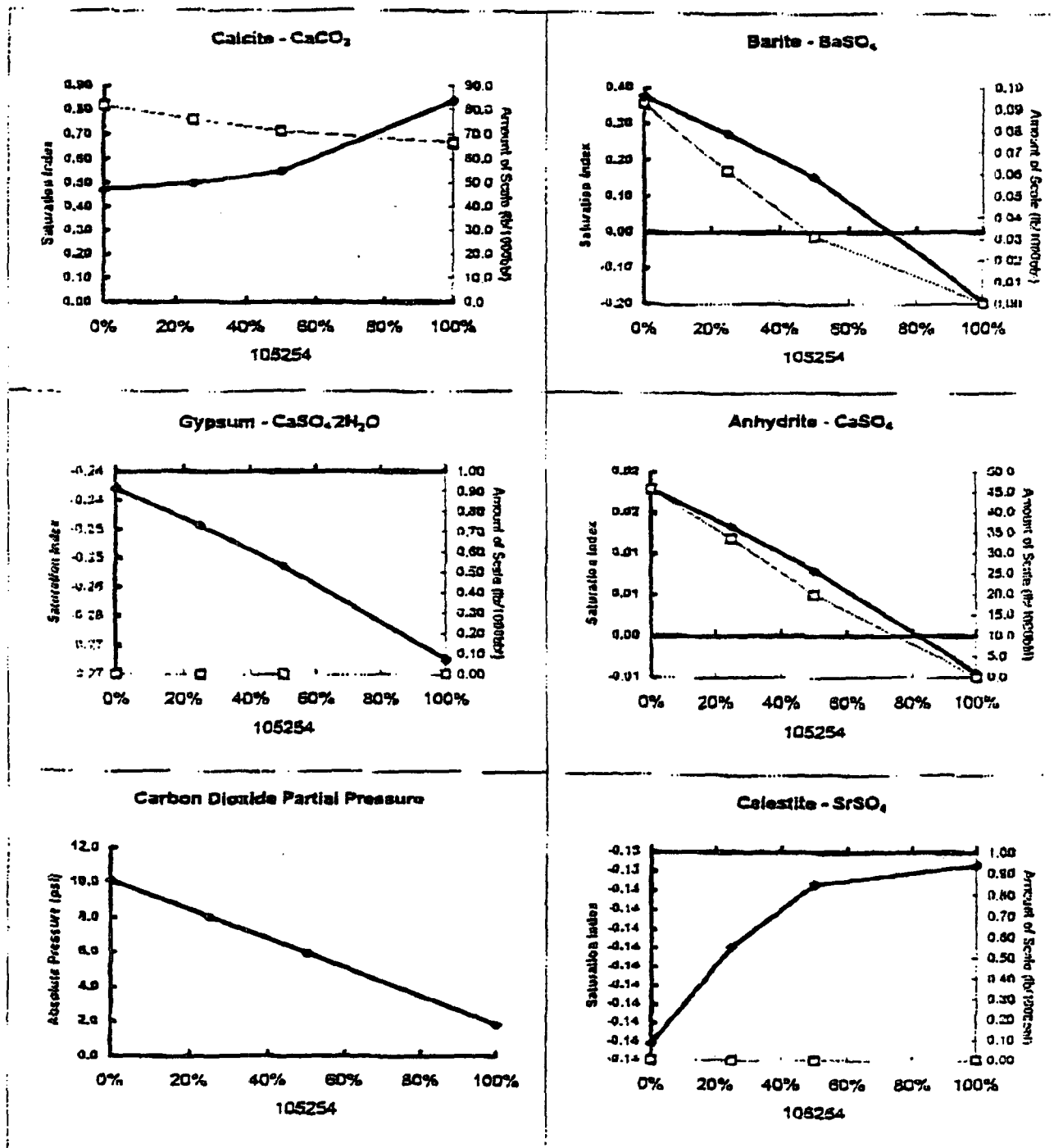
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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 140°F and 0 psi



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

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2
3

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 15, 1998

Total Sulfur	API Gravity @ 60° F	Specific Gravity @ 60° F
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Logan 35-9	0.4888 wt. %	41.8	0.8174
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(YESO)

Thank You,
Rolland Perry

Post-It™ brand fax transmittal memo 767	
1 of pages 1	
To:	Rolland Perry
From:	Devon Energy
Cc:	
Subject:	
Phone #	
Fax #	

*Mobile Analytical Laboratories*

LABORATORIES IN ODESSA, BIDDINGS & STACY DAM

WEST UNIVERSITY AND WESTOVER STREET

P.O. BOX 68210

ODESSA, TEXAS 79768-0210

PHONE (337) 474-4444

FAX (337) 478-1111

MR. ROLLAND W. PERRY
LABORATORY SERVICES
1331 TASKER DR.
HOBBES, 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 ANTONIO) 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

