

DHC 9/21/99

devon

ENERGY CORPORATION

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

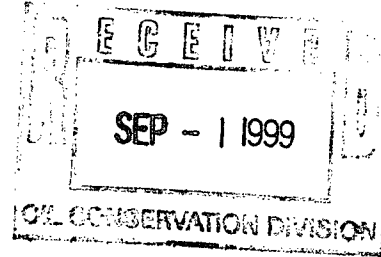
Telephone 405/235-3611
FAX 405/552-4550

2466

August 25, 1999

Certified Mail No. Z 781 289 791

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



RE: Downhole Commingling
Hawk 17 C Federal #1
Section C-17-18S-27E
API #30-015-29514
Red Lake (Q-GB-SA) and
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 operator 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 87505-6429Form 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

Hawk 17 C Federal

1

C - 17-18S-27E

Eddy

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 6137

Property Code

20741

API NO.

30-015-29514

Federal

X

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)		Red Lake (Glor-Yeso)
2. Top and Bottom of Pay Section (Perforations)	1335'-2100'		To be perforated 3200'-3600'
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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current 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 perms
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: 7/27/99 Rates: 8 BOPD, 37 MCFGPD, 211 BWPD	Date: Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: 37 % Gas: 37 %	Oil: % Gas: %	Oil: 63 % Gas: 63 %

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 ___ No11. 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 ___ No13. 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 Tonja Rutelonis TITLE Engineering Technician DATE 8/25/99TYPE OR PRINT NAME Tonja 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

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 30-015-29156	Pool Code 51300	Pool Name Red Lake (Q-GB-SA) & Red Lake, Glorieta-Yaso
Property Code 20741	Property Name Hawk 17 C Federal	Well Number 1
OGRIID No. 6137	Operator Name Devon Energy Corporation	Elevation 3401'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	17	18 S	27 E		380'	NORTH	1450'	WEST	EDDY

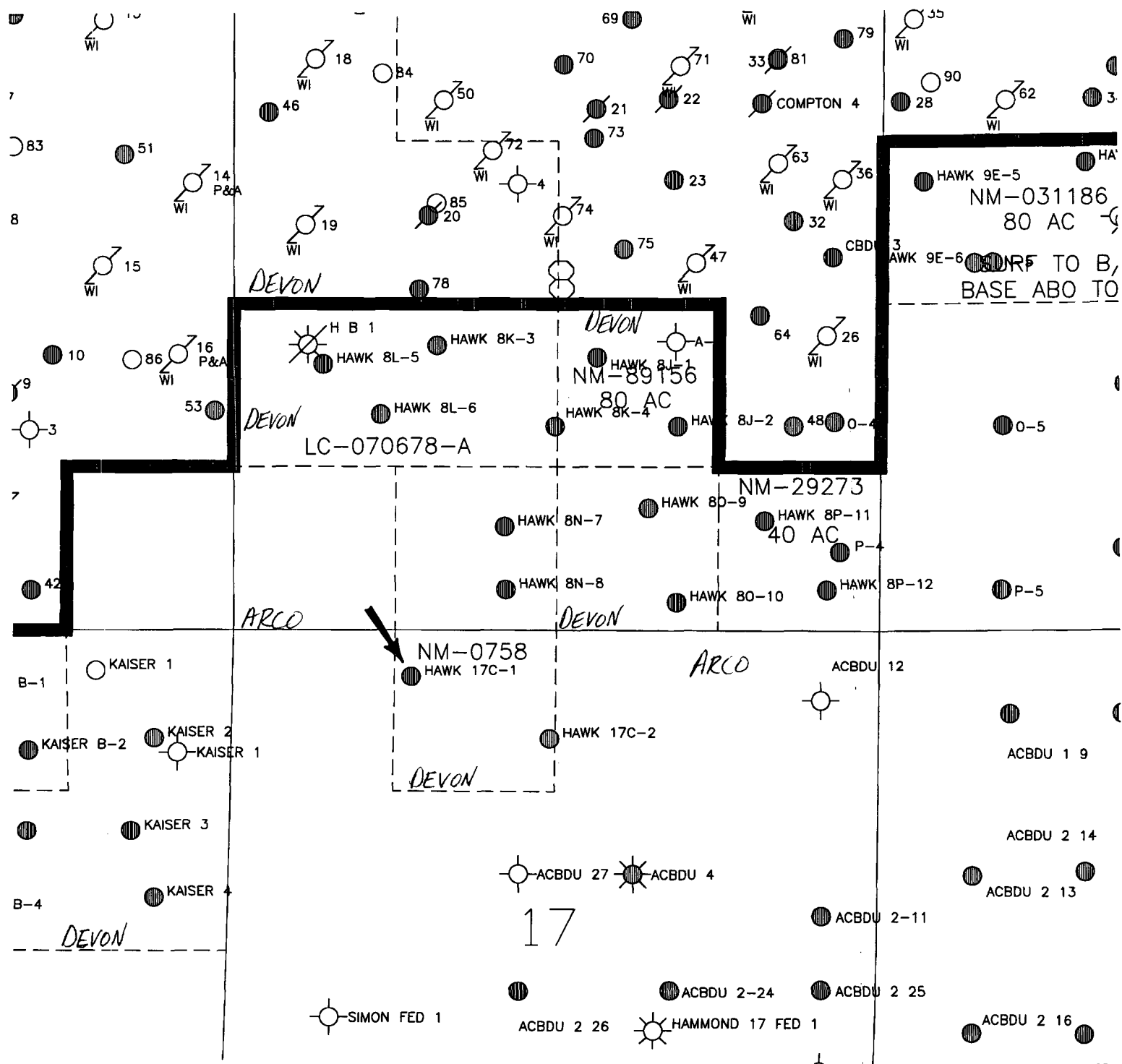
Bottom Hole Location If Different From Surface

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 10, 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>February 18, 1997</u> Date Surveyed <u>Gary L. Jones</u> Signature & Seal of Professional Surveyor <u>WCO Num. 7022G</u> Certificate No. <u>Gary L. Jones</u> Professional Surveyor <u>7977</u> BASIN SURVEYS



Hawk 17 C Federal #1

Allocation Formula

Well Name	Producing Formation	*Daily Production Test	% of Total
		Average	
Hawk 17 C Federal #2	Red Lake (Q-GB-SA)	10 BO/36 MCF/20 BW	37 %
ARCO-Lago Rosa 4 Federal #5 (offset Yeso producer)	Red Lake (Glor-Yeso)	17 BO/27 MCF/83 BW	63 %

* From attached production plots

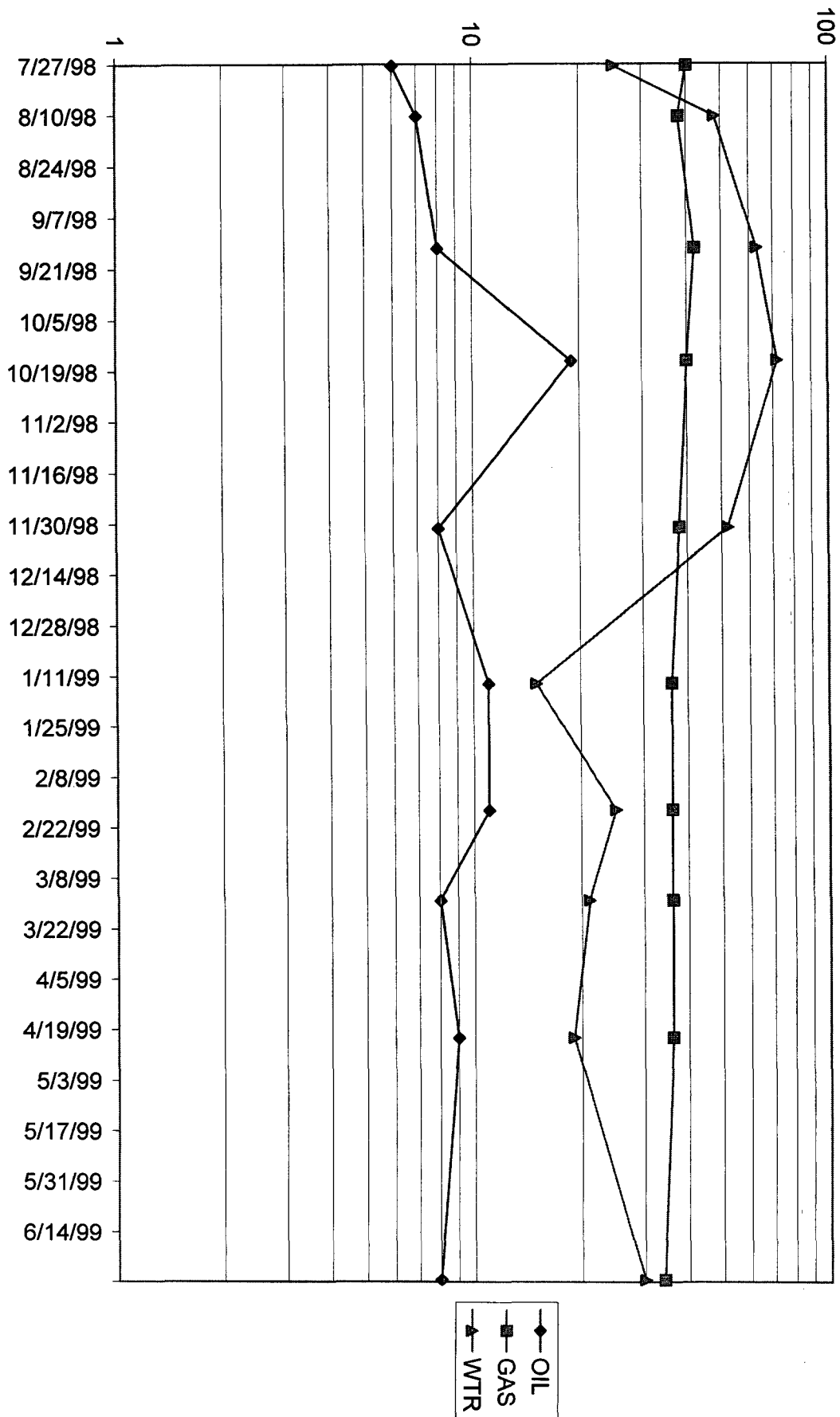
The above production test represents stable production from a San Andres producer (Hawk 17 C Federal #2) and a Yeso producer (ARCO-Lago Rosa 4 Federal #5). The Hawk 17 C Federal #2 was used for the allocation rather than the Hawk 17 C Federal #1 due to the high water production from the Upper San Andres perms in the #1 well. These perms will be squeezed. The offsetting #2 well represents a more accurate average water production for the San Andres.

Ernie,

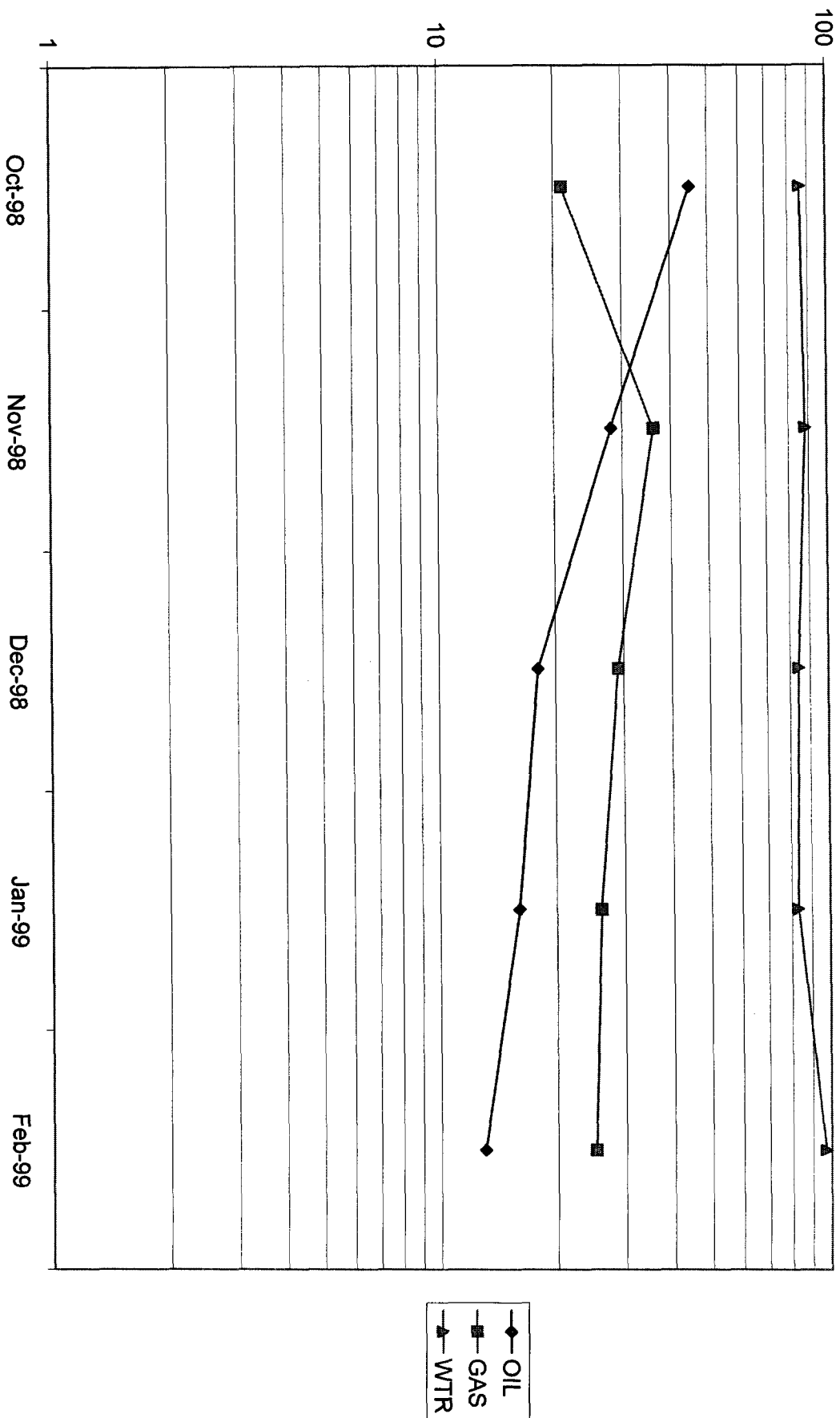
I added a comment
about us using the
#2 well for the
allocation and also
changed the schematic
to show the U.S.A
squeezed.

Tonia

Hawk 17 C Federal #2 (San Andres)



Lago Rosa "4" Fed #5 (Yeso)



3
10
3
10

Lease: LAGO ROSA 4 FEDERAL (5)

Dwights⁻¹

Retrieval Code: 150,015,0153023451120

07/29/99

3
10

2
10
2
10

10
10

1
1

1998

2000

1

Oil (bbl/day)

County: EDDY, NM

F.P. Date: 07/98

Gas (mcf/day)

Water (bbl/day)

Field: RED LAKE (GLORIETA Y Oil Cum: 6125 bbl

Reservoir: GLORIETA YESA

Gas Cum: 8248 mcf

Operator: ARCO PERMIAN

Location: 4L 18S 27E

Devon Energy Corporation (Nevada)
Downhole Commingling
Hawk 17 C Federal #1
API 30-015-29514
380' FNL & 1450' FWL, Unit C
Section 17-T18S-R27E
Eddy County, New Mexico

Surface Owners for Unit C:

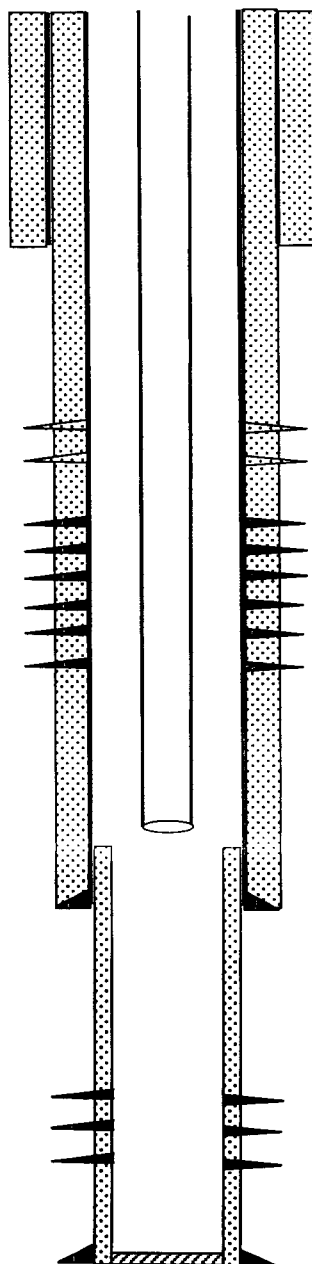
Bureau of Land Management
2909 West Second Street
Roswell, NM 88201

Offset Operators:

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

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

WELL NAME: Hawk 17C Federal #1			FIELD: Red Lake			
LOCATION: 380' FNL & 1450' FWL, Sec. 17-18S-27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL = 3401', KB 3410'			SPUD DATE: 5/31/97		COMP DATE: 6/29/97	
API#: 30-015-29156		PREPARED BY: T. Rutelonis			DATE: 7/1/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 1160'	8-5/8"	24#	J-55		12-1/4"
CASING:	0' - 2449'	5 1/2"	15.5#	J-55		7-7/8"
LINER:	2350'-4500'	4"	10.46#	J-55	FL4S	4-3/4"
TUBING:	0' - 2300'	2-7/8"	6.5#	J-55	8RD EUE	
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 1160' w/ 550 sxs cmt. TOC @ surface

SAN ANDRES PERFORATIONS:

1335'-1488' Upper San Andres (SQUEEZED) - 11 .40" EHD holes

1667'-2100' Alpha, "A", "B", "C", & "D" - 18 .40" EHD holes

2-7/8" tbg w/ SN @ 2300'

TOL @ 2350'

5 1/2" 15.5# J-55 Casing Set @ 2449' w/ 425 sxs cmt. TOC @ surf.

YESO PERFORATIONS:

±3200'- ±3600' (20 HOLES, .38")

4" 10.46# J-55 FL4S liner set @ 2350'-4500' (TOC @ TOL)

TD @ 4500'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FORM APPROVED

OPERATOR'S SIGNATURE

FILE COPY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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 380' FNL & 1450' FWL; Unit "C"

At top prod. interval reported below (SAME)

At total depth (SAME)

14. PERMIT NO.

DATE ISSUED

4/9/97

12. COUNTY OR PARISH

Eddy County

13. STATE

NM

15. DATE SPOUDED

5/31/97

16. DATE T.D. REACHED

6/5/97

17. DATE COMPL. (Ready to prod.)

6/29/97

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

KB 3410'; GL 3401'; DF 3409'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

2449'

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

2403'

22. IF HORIZONTAL COMPLETION, HOW MANY*

NA

ACCEPTED FOR RECORD

23. INTERVALS

DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

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

San Andres 1335'-2100'

AUG 10 1997

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#	1160'	12-1/4"	surf; 350 sxs lite & 200 sxs "C"	NA
5-1/2" J-55	15.5#	2449'	7-7/8"	surf; 150 sxs lite C & 275 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"	1905'	(OET)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

1335-1488' U. SAN ANDRES (11.40" EHD holes)

1667-1697' ALPHA (2.40" EHD holes)

1884' "A" (1.40" EHD holes)

1924-1983' "B" (3.40" EHD holes)

1995-2033' "C" (7.40" EHD holes)

2072-2100' "D" (5.40" EHD holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1335-2100'	2500 gals of 15% NeFe acid
1335-2100'	180,000 gals gel water + 6000# 100 mesh sand
	+ 86,000# 20/40 & 157,000 16/30 Brady sand

33.*

PRODUCTION

DATE FIRST PRODUCTION	PRODUCTIONS METHOD I (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
6/26/97	Pumping (2-1/2" x 2" x 12' RWTC Pump)	Producing
DATE OF TEST	HOURS TESTED	CHOKED SIZE
7/16/97	24	
PROD'N FOR TEST PERIOD	OIL-BBL.	GAS-MCF.
	80	160
WATER-BBL.	GAS-MCF.	OIL GRAVITY-API (CORR.)
318	160	38
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE
		80

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

Sold

TEST WITNESSED BY

Danny Hokett

35. LIST OF ATTACHMENTS

Logs, Deviation Surveys

AUG 24 1997

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

SIGNED

Crystal Thornton

TITLE ENGINEERING TECHNICIAN

DATE August 6, 1997

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

Title 18 U.S.C. § 1001. It is 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.

8-27-97

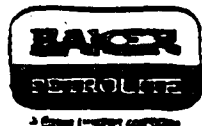


Analysis: 22526

Water Analysis Report from Baker Petrolite

Summary of Mixing Waters		
Sample Number	105254	114048
Company	DEVON ENERGY	DEVON ENERGY
Lease	FALCON FED (SAN ANDRES)	LOGAN 35 (YESO)
Well	INJECTION PLANT	FEDERAL # 9
Sample Location	FWKO	WELLHEAD
Anions (mg/L)		
Chloride	113.807	103.984
Bicarbonate	834	1.000
Carbonate	0.00	0.00
Sulfate	4.235	4.964
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	2.062
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	8.70	6.10
pH at time of analysis		
pH used in Calculations	6.70	6.10

PRINTED 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	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%	4.93	0.22	33.3	-0.04		-0.02		-0.08		0.82	0.11
50%	50%	3.56	0.28	35.3	-0.05		-0.02		-0.07		0.70	0.08
100%	0%	0.98	0.56	45.3	-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

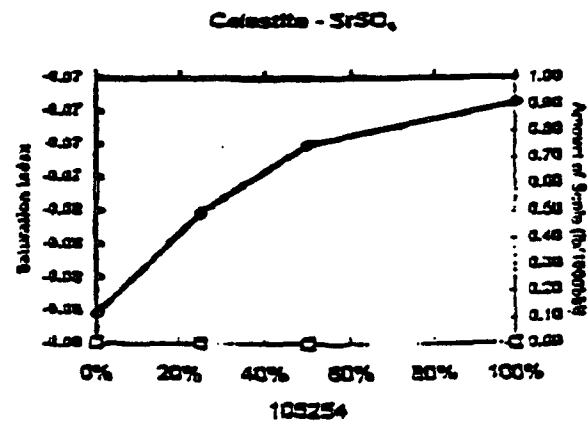
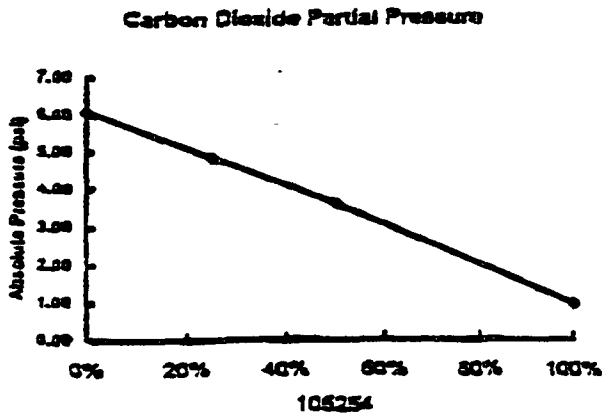
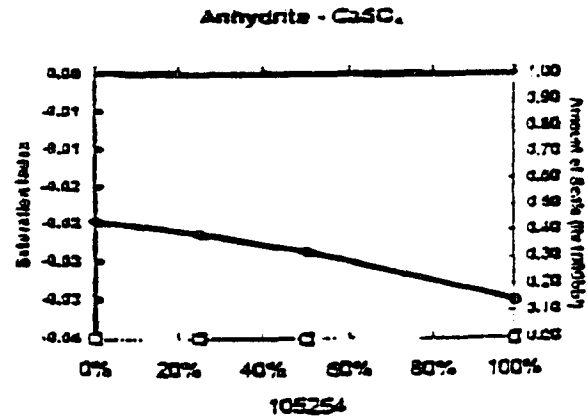
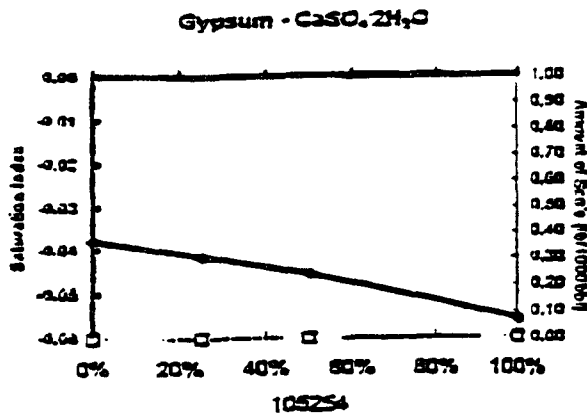
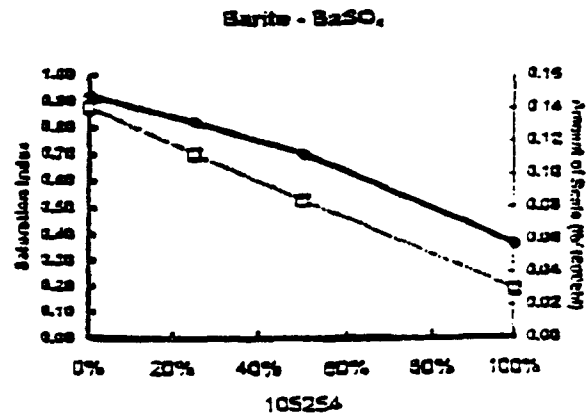
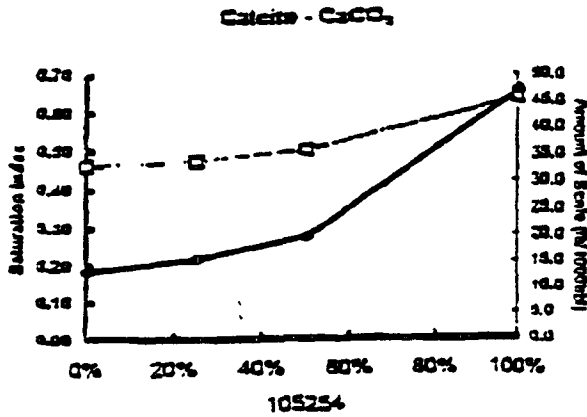
Sent by: BAKER PETROLITE 19155637942

01/06/99 2:27PM Job 388

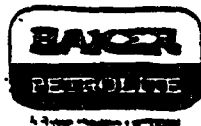
Analysis: 22526

Mixture Predictions from Baker-Petrolite

105254 with 114048 at 80°F and 0 psi



PRODUCT WARRANTY, TEST LIMITS 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	47.3	-0.12		-0.03		-0.11		0.61	0.10	
50%	50%	4.38	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: Prediction 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 PRINTED ON THE BACK OF THIS SHEET

Sent by: BAKER PETROLITE 19155537942

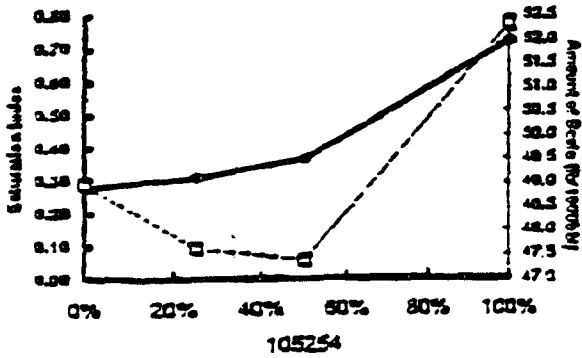
01/06/99 2:28PM Job 389

Page 8/14

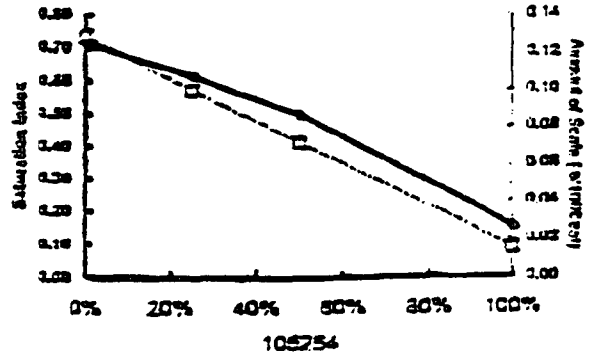
INITIAL FRACTIONS FROM BAKER-PETROLITE

105254 with 114048 at 100°F and 0 psi

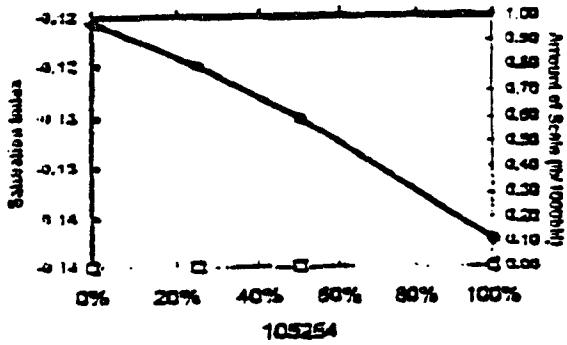
Calcite - CaCO_3



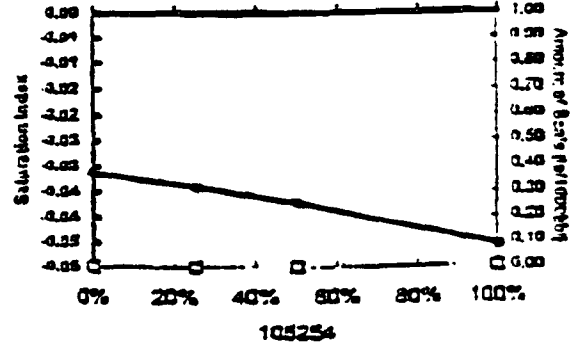
Barite - BaSO_4



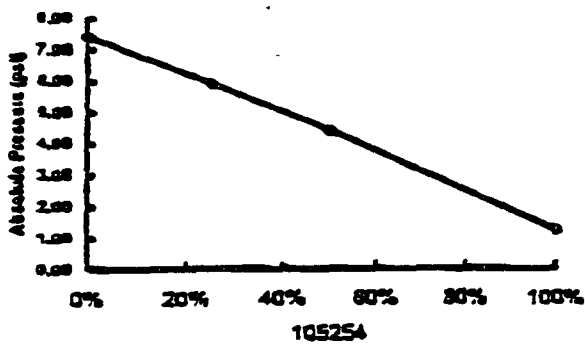
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



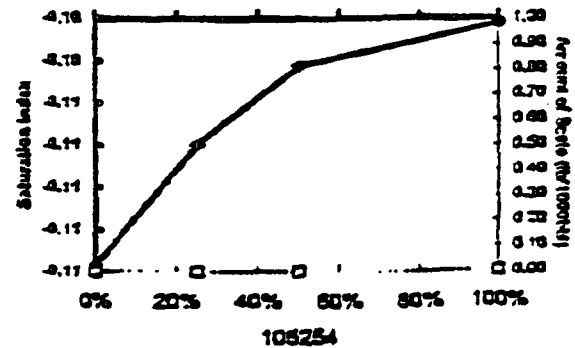
Anhydrite - CaSO_4



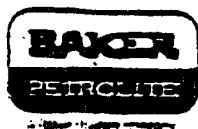
Carbon Dioxide Partial Pressure



Celestine - SrSO_4



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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%	8.98	0.40	81.7	-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	0.79	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.

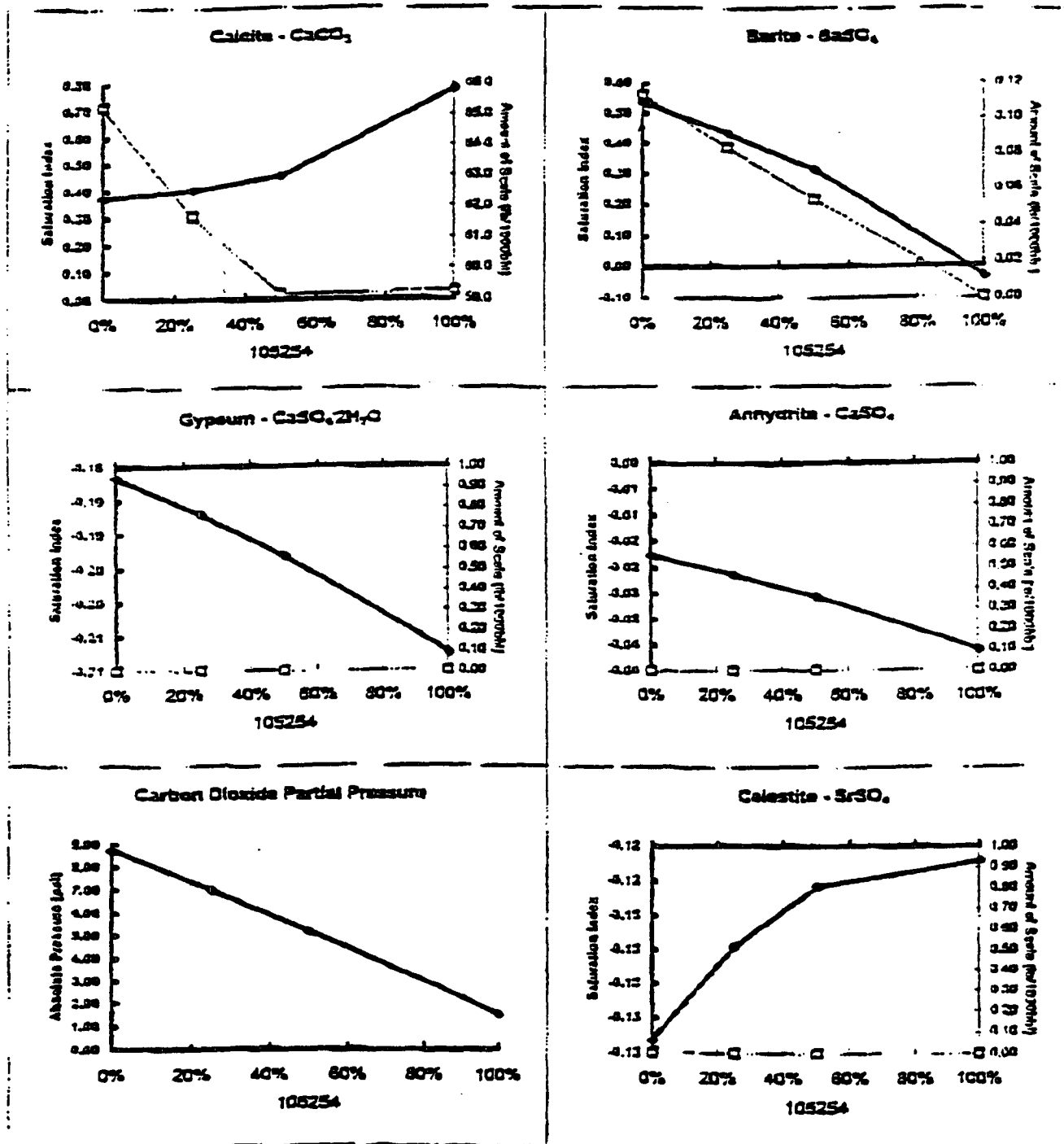
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

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Mixture Predictions from Baker-Petrolite

105254 with 114848 at 120°F and 0 psi



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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	81.3	-0.24		0.02	45.3	-0.14		0.38	0.09
25%	75%	8.0	0.50	78.1	-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	66.5	-0.27		-0.00		-0.13		0.27	

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

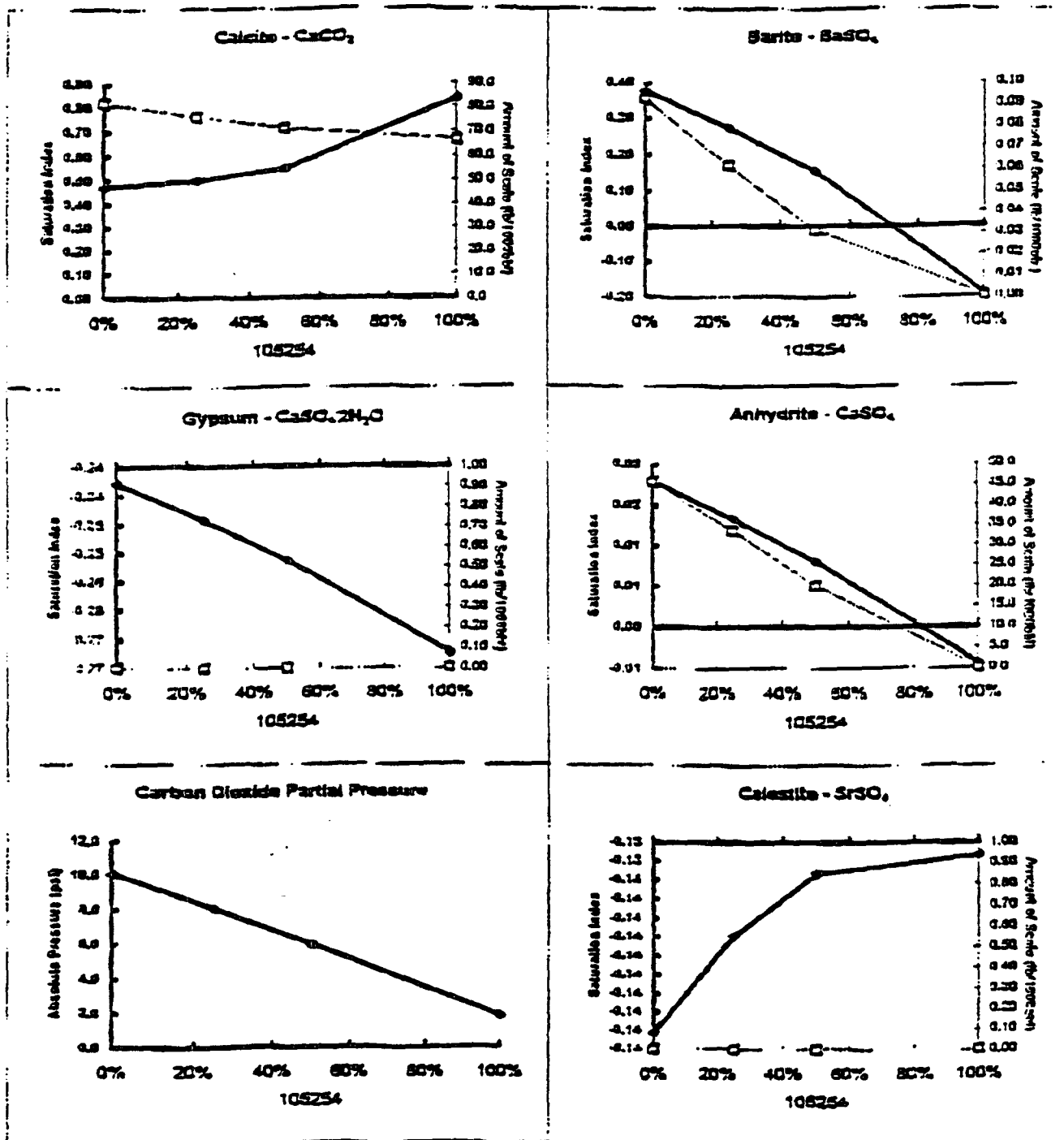
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

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Mixture Predictions from Baker-Petrolite

105254 with 114048 at 140°F and 0 psi



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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

STEPHEN REID
SR/dt

