

devon
ENERGY CORPORATION

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

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

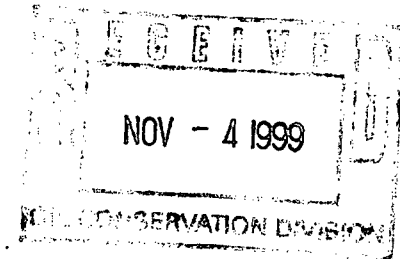
DHC 11/24/99

November 2, 1999

Certified Mail No. Z 068 588 966

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

2503



RE: Downhole Commingling
Kite 5 I Federal #1
Section I-5-18S-27E
API #30-015-29023
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).

Please direct inquiries concerning this application 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

DISTRICT IV

2040 S. Pacheco, Santa Fe, NM 87505

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
Revised August 1999

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

Kite 5 I Federal

1

I - 5-18S-27E

Eddy

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 6137

Property Code

19136

API NO.

30-015-29023

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)		Red Lake (Glor-Yeso)
2. Top and Bottom of Pay Section (Perforations)	1625'-2110'		To be perforated 2850'-3150'
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	a.	a. 100 psi producing BHP
	b. (Original)	b.	b.
6. Oil Gravity (°API) or Gas BTU Content	38.5°		42.0°
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 • 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: 9/29/99 Rates: 14 BOPD, 60 MCFGPD, 95 BWPD	Date: Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: 47 % Gas: 47 %	Oil: % Gas: %	Oil: 53 % Gas: 53 %

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 ☐ 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 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 11/02/99TYPE OR PRINT NAME Tonia Rutelonis TELEPHONE NO. (405) 552-4515

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

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

OIL CONSERVATION DIVISION

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) <i>Red Lake, Glorieta - Yesso</i>
Property Code	Property Name <i>Childress-Federal</i> Kite "5.1" Federal	Well Number 1
OGRID No. 6137	Operator Name Devon Energy Corporation (Nevada)	Elevation 3499'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	18 S	27 E		1825	South	325	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 40	Joint or Infill	Consolidation Code	Order No.
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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

Lot 4	Lot 3	Lot 2	Lot 1	OPERATOR CERTIFICATION I hereby certify the 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>May 24, 1996</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>April 1, 1996</u> Date Surveyed <u>Gary L. Jones</u> Signature & Seal of Professional Surveyor <u>W.O. No. 6093K</u> Certificate No. Gary L. Jones 7977 BASIN SURVEYS

Kite 5 I Federal #1

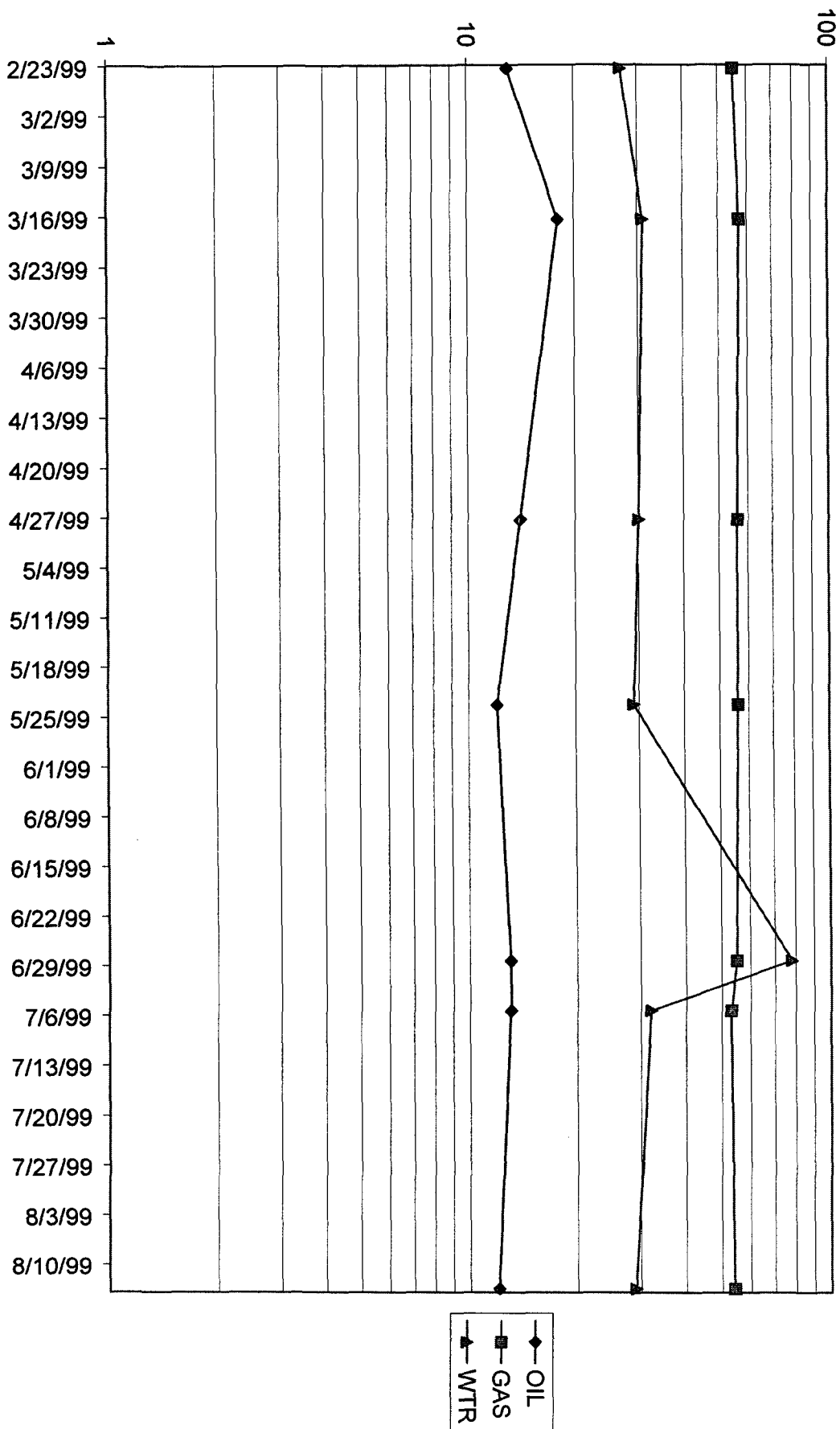
Allocation Formula

Well Name	Producing Formation	*Daily Production Test Average	% of Total
Kite 5 I Federal #1	Red Lake (Q-GB-SA)	15 BO/56 MCF/39 BW	47 %
ARCO-Lago Rosa 4 Federal #5 (offset Yeso producer)	Red Lake (Glor-Yeso)	17 BO/27 MCF/83 BW	53 %

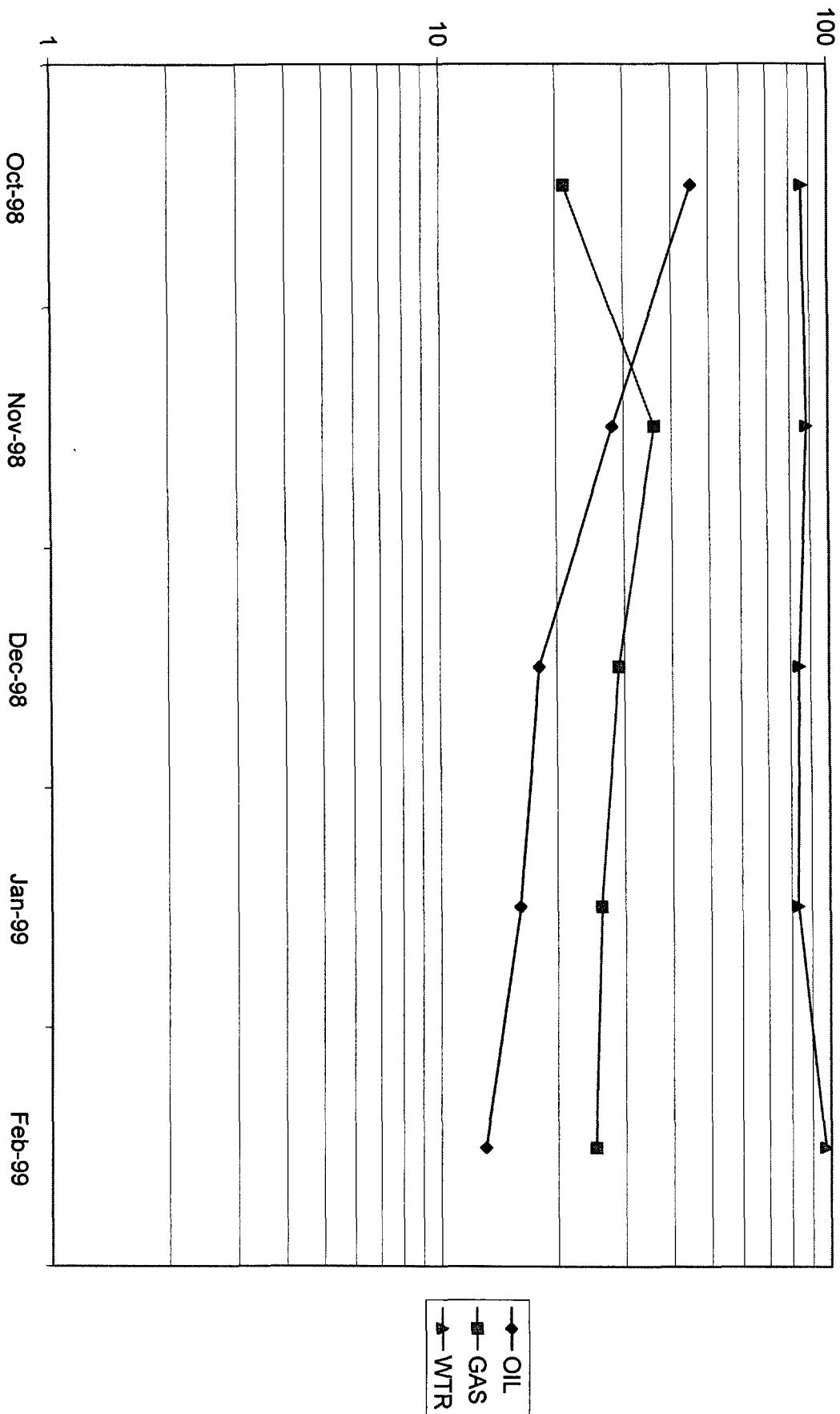
* From attached production plots

The above production test represents stable production from a San Andres producer (Kite 5 I Federal #1) and a Yeso producer (ARCO-Lago Rosa 4 Federal #5). 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.**

Kite 5 I Federal #1 (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

2
10

10
10

10

1
1

1

1998

2000

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

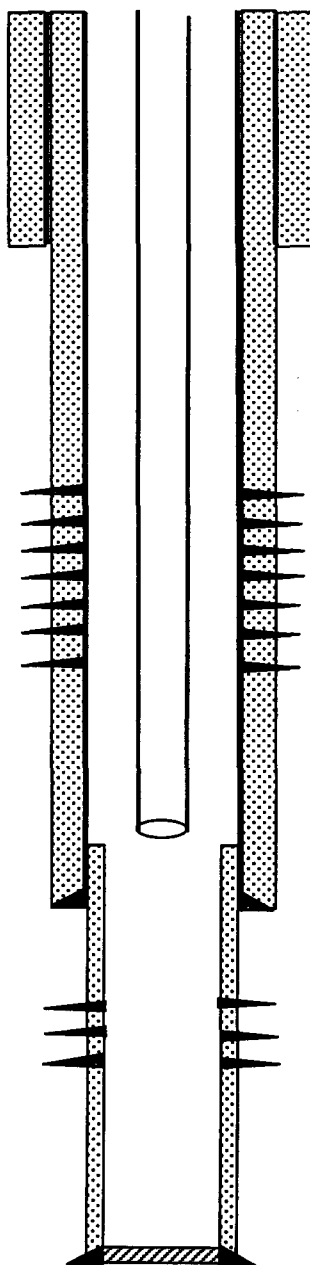
Gas Cum: 8248 mcf

Operator: ARCO PERMIAN

Location: 4L 18S 27E

DEVON ENERGY CORPORATION - WELLBORE SCHEMATIC

WELL NAME: Kite 5 I Federal #1			FIELD: Red Lake			
LOCATION: 1825' FSL & 325' FEL, Sec. 5-18S-27E			COUNTY: Eddy			STATE: NM
ELEVATION: GL = 3499', KB 3508'			SPUD DATE: 8/26/96		COMP DATE: 9/22/96	
API#: 30-015-29023		PREPARED BY: T. Rutelonis			DATE: 9/14/99	
	DEPTH	SIZE	WEIGHT	GRADE	THREAD	HOLE SIZE
CASING:	0' - 1021'	8-5/8"	24#	J-55		12-1/4"
CASING:	0' - 2349'	5 1/2"	15.5#	J-55		7-7/8"
LINER:	2250'-4500'	4"	10.46#	J-55	FL4S	4-3/4"
TUBING:	0' - 2230'	2-7/8"				
TUBING:						



CURRENT



PROPOSED

OPERATOR: DEVON ENERGY CORPORATION

8-5/8" Casing, Set @ 1021' w/ 600 sxs cmt. TOC @ surface

SAN ANDRES PERFORATIONS:

1625'-2110' (32 holes, .40", ALPHA, "A", "B", "C", & "D")

2-7/8" tbg w/ SN @ 2230'

TOL @ 2250'

5 1/2" 15.5# J-55 Casing Set @ 2349' w/ 525 sxs cmt. TOC @ surf.

YESO PERFORATIONS:

±2850'- ±3150' (20 HOLES, .38")

TD @ 4500'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FORM APPROVED

(See other instructions on reverse side)

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. RESER. ☐ Other ☐

OPERATOR'S COPY

2. NAME OF OPERATOR
DEVON ENERGY CORPORATION (NEVADA)3. ADDRESS AND TELEPHONE NO.
20 N. BROADWAY, SUITE 1500, OKC, OK 73102-8260 (405) 235-36114. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1825' FSL & 325' FEL (Unit "I")

At top prod. interval reported below (SAME)

At total depth (SAME)

5. LEASE DESIGNATION AND SERIAL NO.
LC-055383-A
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA
7. UNIT AGREEMENT NAME
NA
8. FARM OR LEASE NAME, WELL NO.
Kite "5I" Federal #1
9. API WELL NO.
30-015-29023
10. FIELD AND POOL, OR WILDCAT
Red Lake (Q0GB-SA)
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
"I" Section 5-18S-27E14. PERMIT NO. DATE ISSUED 6/28/96 12. COUNTY OR PARISH Eddy County 13. STATE NM
15. DATE SPUNDED 8/26/96 16. DATE T.D. REACHED 8/30/96 17. DATE COMPL. (Ready to prod.) 9/22/96 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 3508'; GL 3499'; DF 3507' 19. ELEV. CASINGHEAD20. TOTAL DEPTH, MD & TVD 2350' 21. PLUG, BACK T.D., MD & TVD 2301' 22. IF MULTIPLE COMPLETIONS, 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 1625-2110'

ACCEPTED FOR RECORD

OCT 10 1996

BLM

26. TYPE ELECTRIC AND OTHER LOGS RUN LDT/CNL/DLL/MSFL/GR 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# 1021' 12-1/4" surf; 300 sxs lite & 300 sxs "C" NA
5-1/2" J-55 15.5# 2349' 7-7/8" surf; 150 sxs lite & 375 sxs "C" NA29. LINER RECORD 30. TUBING RECORD
SIZE TOP (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) SIZE DEPTH SET (MD) PACKER SET (MD)
2-7/8" 2130' (OET)31. PERFORATION RECORD (Interval, size and number)
1625-1736' ALPHA (7 - .40" EHD holes)
1856-1893' "A" (4 - .40" EHD holes)
1908-1998' "B" (9 - .40" EHD holes)
2025-2053' "C" (6 - .40" EHD holes)
2062-2110' "D" (5 - .40" EHD holes)
32. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
1625-2110' 2500 gals of 15% NeFe acid
1625-2110' 1,000 gals PrePad + 2 drum Pro-Kem scale
+ 153,140 gals 10-20# linear gelled water + 6,000#
100 mesh sand + 140,383# 20/40 brady sand33.* PRODUCTION
DATE FIRST PRODUCTION 9/28/96 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 10/3/96 HOURS TESTED 24 CHOKER SIZE PROD'N FOR TEST PERIOD OIL-BBL. 121 GAS-MCF. 242 WATER-BBL. 425 GAS-OIL RATIO 2000/1
FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL-BBL. 121 GAS-MCF. 242 WATER-BBL. 425 OIL GRAVITY-API (CORR.) 38

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

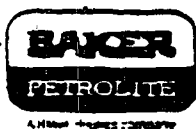
SIGNED *[Signature]*DIANA KEYS
TITLE ENGINEERING TECHNICIAN

DATE October 3, 1996

*(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 or to any matter within its jurisdiction.

10-16-96



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	68,833
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	6.70	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%	4.83	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.

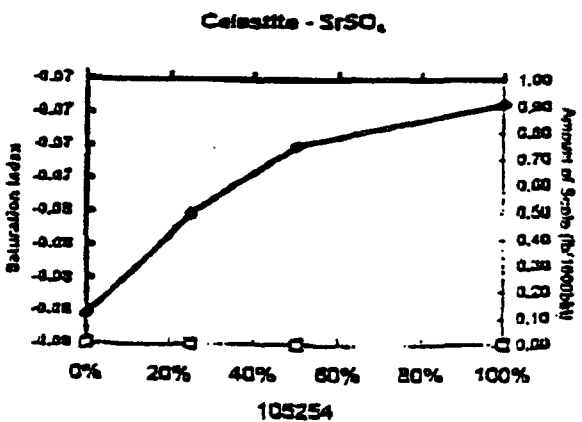
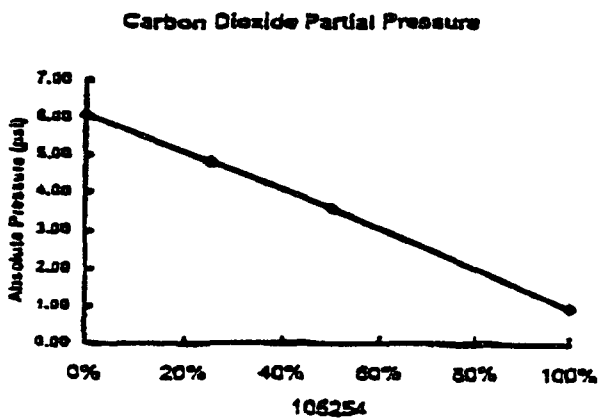
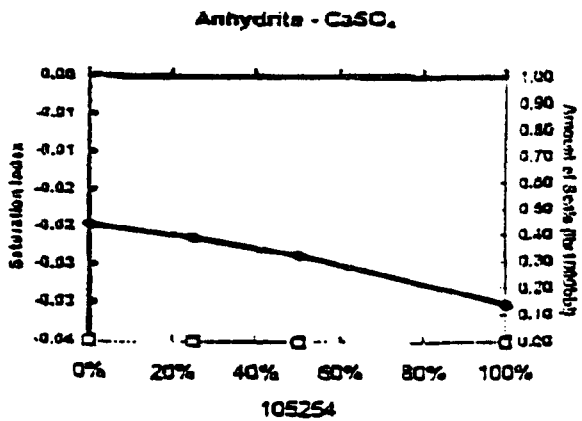
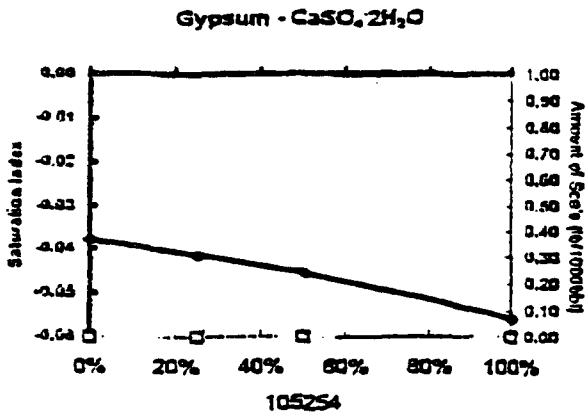
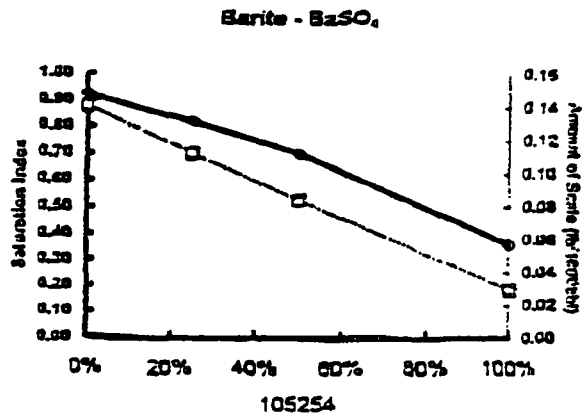
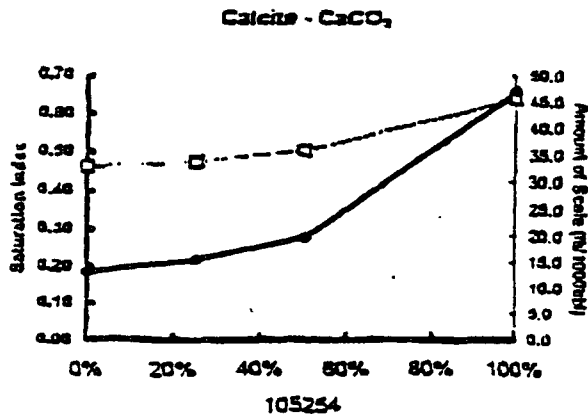
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

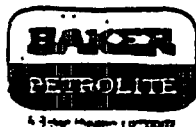
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

Mixture Predictions from Baker-Petrolite

105254 with 114048 at 80°F and 0 psi



PRODUCT WARRANTY, USAGE 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	47.6	-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.

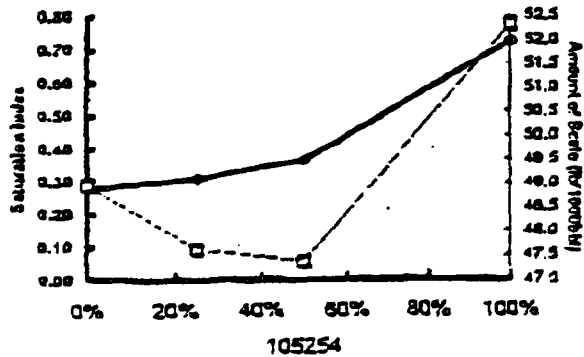
Note 3: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

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

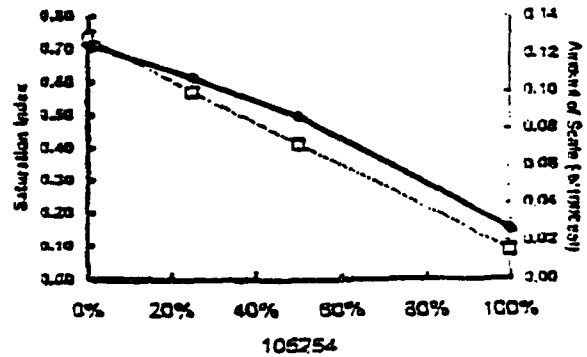
MINERAL PRECIPITATIONS FROM BAKER-PETROLITE

105254 with 114048 at 100°F and 0 psi

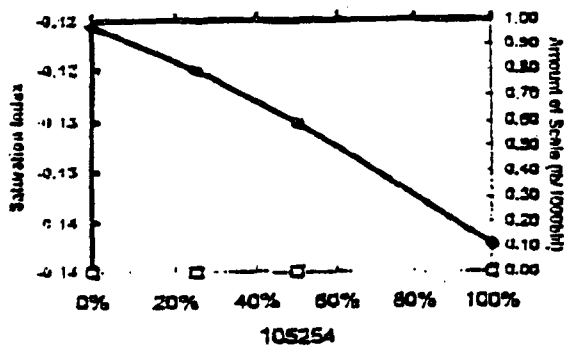
Calcite - CaCO_3



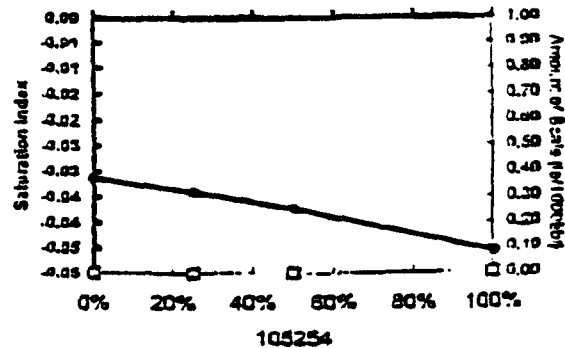
Barite - BaSO_4



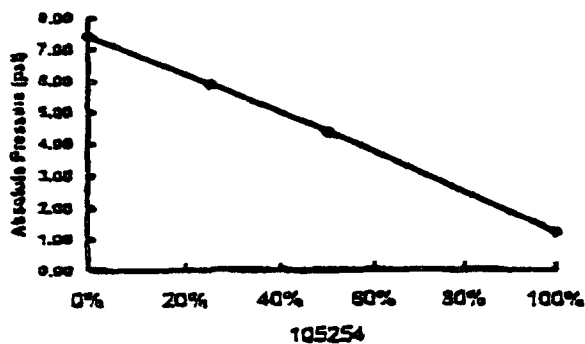
Gypsum - $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$



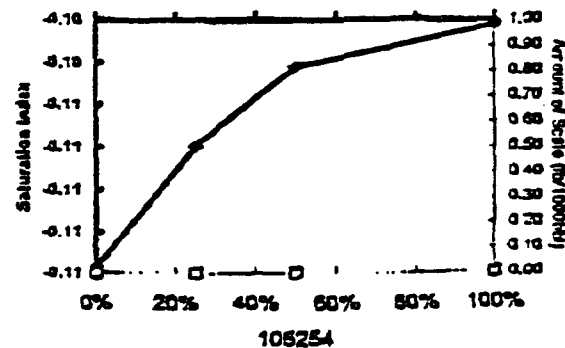
Anhydrite - CaSO_4



Carbon Dioxide Partial Pressure



Celestite - SrSO_4



(THESE MINERAL PRECIPITATIONS FROM BAKER-PETROLITE 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.

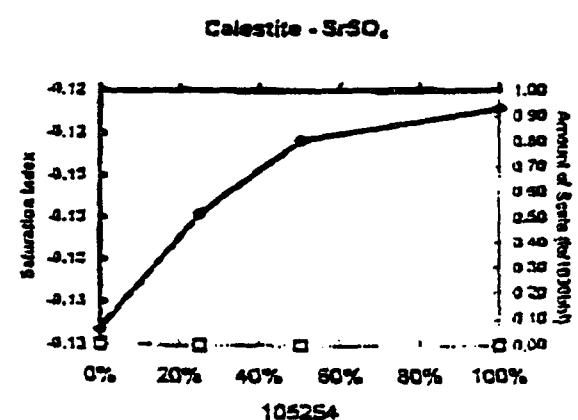
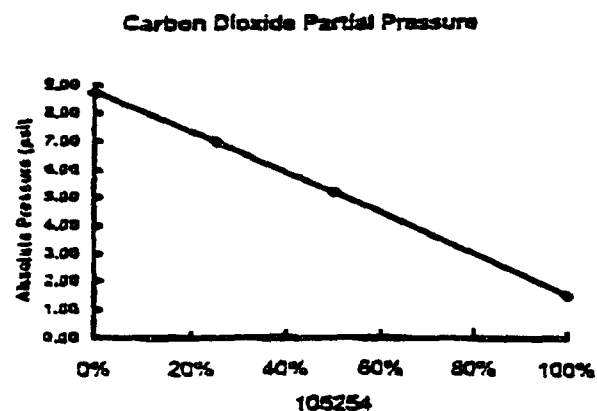
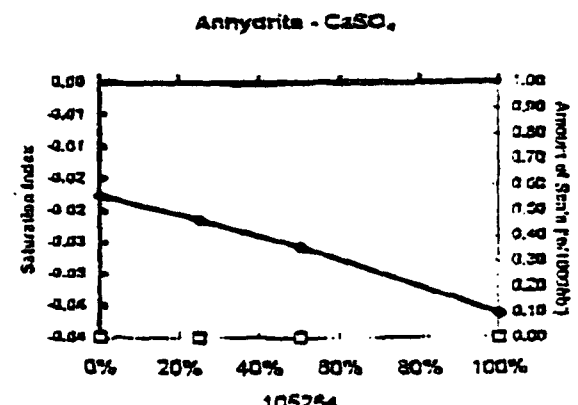
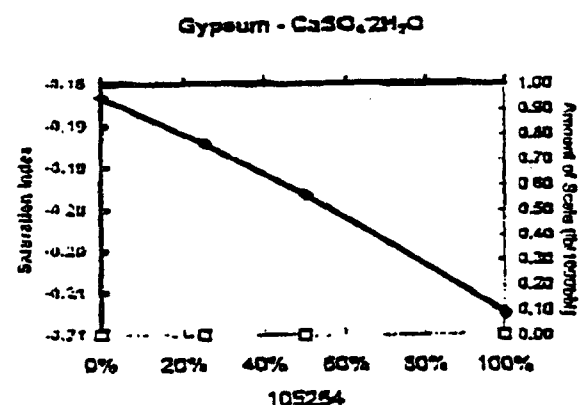
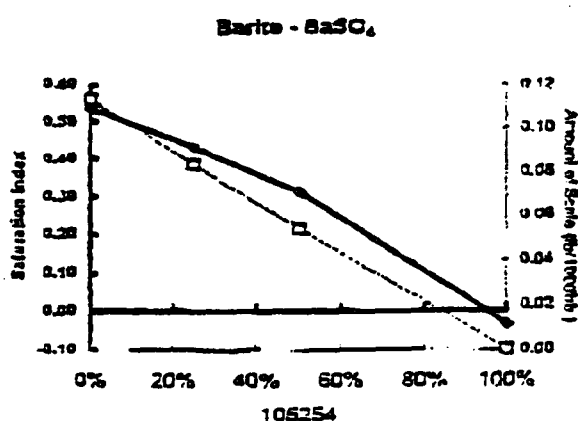
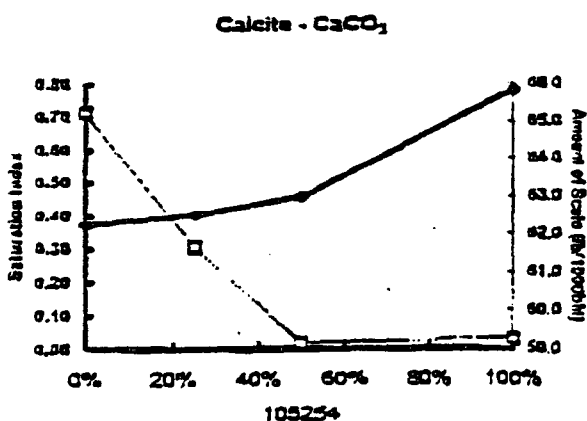
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

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

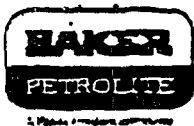
PRODUCT WARRANTY, DISCLAIMER AND LIMITATION OF LIABILITY ARE FOUND ON THE BACK OF THIS SHEET

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	49.3	-0.14		0.38	0.09
25%	75%	8.0	0.50	78.1	-0.24		0.01	33.6	-0.14		0.27	0.08
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		0.21	

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.

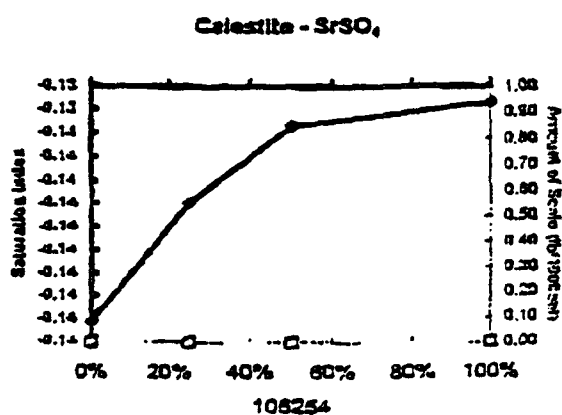
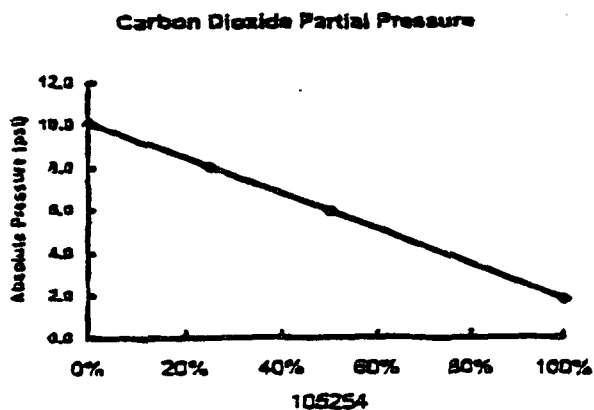
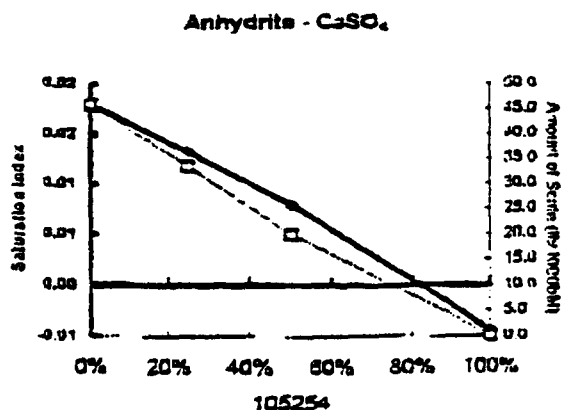
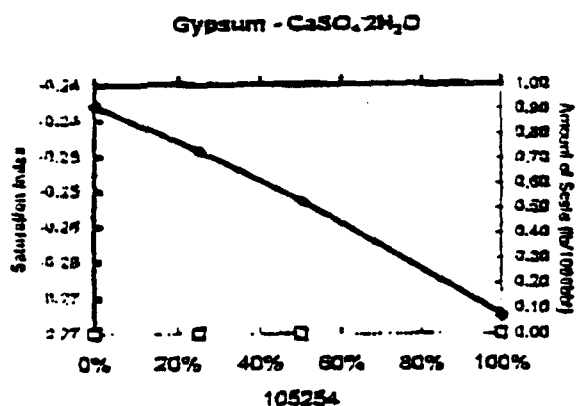
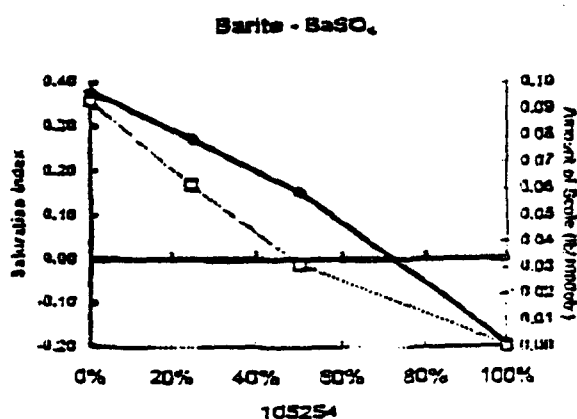
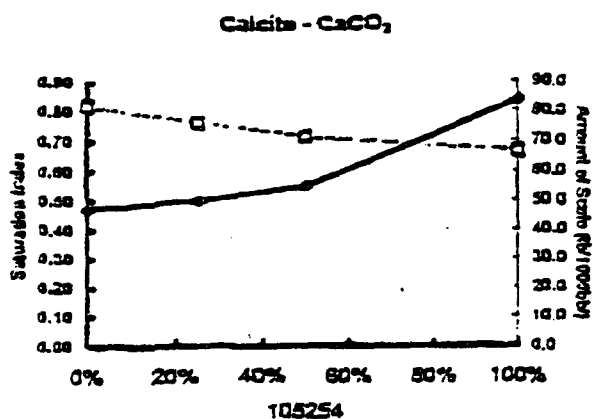
Note 3: CO₂ Pressure is absolute pressure. Total Pressure is gauge pressure.

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

Analysis: 22526

Mixture Predictions from Baker-Petrolite

105254 with 114848 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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Laboratory Services, Inc.
4016 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (805) 367-3713

SULFUR IN CRUDE OIL

Devon Energy
P.O. Box 250
Ariesa, New Mexico 88211-0250

Dec 16, 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 (part 75)	1 of 1 pages
To: <i>Buttana</i>	
From: <i>Robert</i>	
Subject:	
Date:	
Page:	
Fax #:	



Mobile Analytical Laboratories

LABORATORIES IN COESSA, BRIDGES & STACY DAM
WEST UNIVERSITY AND WESTOVER STREET

P.O. BOX 63210

COESSA, TEXAS 75768-0210

PHONE 337-4744

FAX 337-4787

FEBRUARY 07, 1997

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

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 ANTOES) 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

