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$\langle j \rangle$	DUMES. SOAL	Bran Oil Bran - Bettiss - 56 d - 56 - 54 U.S.	Mesa verde- Jack Fed." U.S. Fed." (128)	S	anta Fe, New Mexic	co
s etal 10	Morsanto,etal HBP 30070	Monsanto,etal H8P 30070	45 764 // Millennum Ener Sonot Expl. HBP 5-1-87 30070 -65 94 7/ 1987	Case No.	<u>11429</u> Exhibit	No. <u>1</u>
*			13.50 15.50	Submitted by: <u>Texa</u>	aco Exploration and	Production Inc.
KE.	Santare Ener, 9 · 1 · 97 \$9180	Santa Fe Ener 9 - 1 - 97 69180	Meridian 11 - 1 - 96 66925	Hearing Da	te: November 16	5, 1995





BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

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Case No. <u>11429</u> Exhibit No. <u>2</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: <u>November 16, 1995</u>

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE



BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. <u>11429</u> Exhibit No. <u>4</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: November 16, 1995

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

DATA SHEET FOR DOWNHOLE COMMINGLING

Operator :	Texaco Exploration	Texaco Exploration and Production Inc.			
Address:	P. O. Box 730, Hot	P. O. Box 730, Hobbs New Mexico			
Lease and Well No. :	SDE 31 Federal No	SDE 31 Federal No. 2			
Location :	Unit Letter C, 660' Section 31, T 23 S, Lea County, New M	Unit Letter C, 660' FNL, 1980' FWL of Section 31, T 23 S, R 32 E Lea County, New Mexico			
	WELL DATA				
	Upper Pool	Lower Pool			
Name of Pool :	West Triste Draw - Delaware	South Sand Dunes - Bone Springs			
Estimated BHP :	2145	3549			
Completed Interval :	7170' - 7192' 7207' - 7222'	8571' - 8623			
Current Method :	Testing	Flowing/Surging (Currently installing pumping equipment)			
Current Test Date :		Aug-95			
Oil	124	48 BOPD			
Gas	50	680 MCFD			
Water	202	0 BWPD			

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. <u>11429</u> Exhibit No. <u>6</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: November 16, 1995

SEPORT NO. 139524	S T	AR
PAGE NO. 1	Schlumberger Transi	ent Analysis Report Schlumberger
TEST DATE: 13-APR-1995	Based on Model Veri Of a Schlumber	fied Interpretation ger Well Test
COMPANY: TEXACO	EXPL. & PROD., INC.	WELL: SDE FEDERAL "31" #2
TEST IDENTIFICA Test Type Test No Formation Test Interval (ft)	TION S/L BUILDUP Two Bone springs 8344 to 8438	WELL LOCATION County LEA State NEW MEXICO Sec/Twn/Rng S31-235-32E
COMPLETION CONF Casing Size D.D. (Hole Size (in) Gross Perf. Interv Net Pay (ft)	IGURATION in) 5.5" - 15.5± 7.875 al (ft) 8344 to 8438 52	TEST STRING CONFIGURATION Tuping Length (ft)/I.D. (in) 8400 / 2.441 Packer Depth (ft) 8400 Gauge Depth (ft)/Type 8490/SB-20243
		TEST CONDITIONS Producing Time (hours) 3096 Tbg/Wellhead Pressure (psi)
INTERPRETATION Model of Behavior Fluid Type Used for Reservoir Pressure Transmissibility (r Effective Permeabi Fracture Half-Leng Equivalent Skin Fac Distance to Channe Radius of Investige	RESULTS 	ROCK/FLUID/WELLBORE PROPERTIES 0il Density (deg. API) 42 Gas Gravity 0.65 GOR (scf/STB) 4000 Water Cut (%) 0 Viscosity (cp) 0.814 (0) (cp) 0.013 (G) Total Compressibility (1/psi) 2.271E-04 Porosity (%) 14 Reservoir Temperature (F) 131 Form.Vol.Factor (bb1/STB) 1.109 (0)
PRODU	JCTION RATE DURING TEST:	47 BOPD + 188 MCFD - Q-Last

COMMENTS:

A 14-DAY BOTTOMHOLE PRESSURE BUILDUP TEST WAS CONDUCTED FROM 13-APR-1995 TO 27-APR-1995 AFTER 83-DAYS PRODUCTION SINCE THE LAST BUILDUP TEST (21-JAN-1995). ANALYSIS OF THE DIAGNOSTIC LOG-LOG PLOT OF PRESSURE AND DERIVATIVE INDICATES THE PRESENCE OF A HOMOGENEOUS SYSTEM WITH VARIABLE WELLBORE STORAGE EFFECTS AT EARLY TIME, FORMATION LINEAR (FRACTURE) FLOW REGIME AT MID TIME AND TRANSITIONAL FLOW REGIME AT LATE TIMES. THE BUILDUP WAS MATCHED FIRST WITH A HOMOGENEOUS, INFINITE SYSTEM FRACTÚRE MODEL (SEE ANALYSIS RESULTS AND PLOTS. PAGES 2-5) FOR A FINITE CONDUCTIVITY VERTICAL FRACTURE, BASED ON THIS MATCH, THE EXTRAPOLATED PRESSURE WAS 2300 PSIA AND FRACTURE HALF-LENGTH WAS 183-Ft. THIS PRESSURE VALUE AGREES WITH THE PREVIOUS TEST. BASED ON REPORTED INFORMATION THAT THE WELL IS POSITIONED IN A LONG THIN CHANNEL BED. THE BUILDUP WAS MATCHED A SECOND TIME USING A HOMOGENEOUS, FINITE CONDUCTIVITY VERTICAL FRACTURE RESERVOIR MODEL WITH CHANNEL GEOMETRY NO-FLOW OUTER BOUNDARIES (SEE ANALYSIS RESULTS AND PLOTS. PAGES 6-9). WITH A CHANNEL LENGTH-TO-WIDTH RATIO OF ABOUT 64/1, AN EXTRAPOLATED PRESSURE OF 3549 PSIA WAS OBTAINED. THIS VALUE IS IN AGREEMENT WITH PRESSURE AT THE SDE FEDERAL "31" #4 WELL, TESTED 05-MAR-1995. THE DISTANCE TO THE CHANNEL SIDES WAS ESTIMATED AT 174 AND 242 Ft. RESPECTIVELY.

THE TESTED INTERVAL HAS THE CHARACTERISTICS OF LOW EFFECTIVE PERMEABILITY AND A HIGHLY STIMULATED WELLBORE CONDITION AT THE TIME OF THE TEST. FOR QUESTIONS ABOUT THIS REPORT. PLEASE CONTACT DEBORA HALLFORD AT (303) 843-9090.

(c)

N 040.	-3030.	Examiner Catanach
1990	SCHLUMBERGER	= Case No. 11429
		EXHIBIT NO. 7

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. <u>11429</u> Exhibit No. <u>7</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: November 16, 1995

GIST & STATTON, INC. PETROLEUM CONSULTANTS 401 WEST TEXAS STREET, STE 1005 MIDLAND, TEXAS 79701

MIDLAND AMERICAN BANK BLDG 10TH FLOOR TELEPHONE: 915-683-6852 FAX: 915-683-8720

at the second

June 24, 1994

ENRON Oil & Gas Company 4000 N. Big Spring, Ste 500 Midland, Texas 79705

Attn: Mr. Randy Cate

The following presents the analysis results of the buildup test conducted on June 10, 1994 on the ENRON - Mesaverde '6' No. 5 well, Lea County, New Mexico.

SUMMARY

The Mesaverde '6' No. 5 well produces from the Delaware and was completed in June, 1994. Perforations are from 7217 feet to 7227 feet, with 15 feet of net pay. The zone was treated with only a small amount of acid. Cumulative producing time prior to the shutin was about 80 hours. Producing rates prior to shutin were about 91 BOPD. The flowing bottom-hole pressure at the time of shutin was 344 psia at a depth of 7222 feet. The maximum pressure recorded at the end of the 63 hours of buildup was 2109 psia.

The static gradient showed a gas-oil-water contact.

CONCLUSIONS

The buildup response for the test is that of a high permeability, damaged reservoir. Radial flow did not develop. The transients went directly from early time skin effects to late time stabilization. No boundary conditions were observed. The skin effects probably masked any nearby events.

MESAVERDE '6' No. 5

Permeability, md		20.0
Skin		+ 30
Reservoir pressure	e, psia	~ 2145

The permeability and skin estimates were obtained from a type curve match and were modified during the analytical

Mr. Randy Cate Page No. 2

- -

simulation. The estimate for reservoir pressure was developed from a Horner plot and adjusted during simulation.

PRESSURE ANALYSIS

Figure 1 is a log-log plot showing the pressures and pressure derivatives. The unit slope line identifies wellbore storage effects, which is followed by skin effects. The derivative continues to decline from there, indicating the onset of pressure stabilization.

Figure 2 is a suite of homogeneous type curves for a range of dimensionless wellbore storage values. The values for permeability and skin were adjusted during model verification.

Figure 3 is a Horner plot of the buildup. The line used for the initial estimate of reservoir pressure is shown.

Figure 4 is a model verification of the values obtained from the type curve match. The values reported above were obtained from the model verification.

If you have any question concerning this report, please do not hesitate to call me at 915-683-6852.

Very truly yours,

Khute U.st

THUE II

Rhett Gist

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. <u>11429</u> Exhibit No. <u>7A</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: November 16, 1995



Jul-95

RATR

MERIDIAN LITTLE JACK 30 FEDERAL 1 West Triste Draw - Delaware Pool

Upper Brushy



RATE



YEARS

BOPD BWPD

IPD MCFPD

MERIDIAN LITTLE JACK 30 FEDERAL 3 West Triste Draw - Delaware Pool

Waper Barry



MERIDIAN LITTLE JACK 30 FEDERAL 4 West Triste Draw - Delaware Pool



RATR



•

RATE



YEARS

BOPD BWPD

MCFPD



YEARS

BOPD

BWPD MCFPD



RATE

Hearing Date: November 16, 1995

Submitted by: Texaco Exploration and Production Inc.

Case No. <u>11429</u> Exhibit No. <u>8</u>

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico SDE Federal 31 - 2 Upper Brushy Canyon Sand Completion Procedure



COMPLETION PROCEDURE

DATE : 10/20/95

WELL : SDE Federal 31 Well #2

FIELD: Triste Draw West

LOCATION: Lea County, NM

ZONE: Upper Brushy Canyon Sand (7170'-7192',7207'-7222')

PBTD: 8680'

- 1) MIRUSU. Kill well. ND wellhead. NU BOP. TOH with tubing and packer.
- 2) Set a WRBP at 8500'.
- 3) RU perforators. RIH with a 4" OD HSC gun and perforate the following Upper Brushy Canyon Sand interval with 2 JSPF, 0.5" holes, 120 degree phasing:

<u>#</u>	INTERVAL	<u>NET</u>	HOLES	
1	7170' - 7192'	22	44	
2	7207' - 7222'	15	30	

Perfs picked off of: SD/DSN log dated 10/311/94

Use one of the following charges:

a) Schlumberger "34B HJ"

- b) Gearhart "Densi MLXII"
- c) JRC "SSB"
- d) McCullough "Alphajet"
- 4) TIH with tubing, seating nipple and notched collar.
- 5) RU Dowell. Test lines to 3500 psig. Spot acid to bottom of tubing. Acidize with 2000 gals of 7.5% HCL, NEFE acid, followed by 4000 gals of 12%/3% (HCL/HF), followed by 1000 gals of 7.5% HCL NEFE acid, followed by 250 gallons of diesel. Displace with NH4Cl (50 bbls). Diverter to be distributed evenly throughout job. Maximum pressure 500 psi while injecting into the formation, adjust rate accordingly.
- 6) Swab well until advised to proceed to next step.

SDE Federal 31 - 2

Upper Brushy Canyon Sand Completion Procedure

- 7) Frac with 7,200 gals of 30# borate crosslinked 2% KCl fresh water gel and 25,000 lbs of 16/30 Ottawa sand down 2 7/8" tubing as follows:
 - a) 1500 gals Pad (Spot to btm tbg pump at 3 BPM)
 - b) 500 gais @ 2 ppg 16/30 (pump at 10 BPM)
 - c) 500 gais @ 4 ppg " (pump at 10 BPM)
 - d) 1000 gais @ 6 ppg " (pump at 10 BPM)
 - e) 2000 gais @ 8 ppg " (pump at 10 BPM)
 - d) +/- 1700 gais flush (WF30) (pump at 10 BPM)

NOTES:

- 1) Maximum rate: 10 BPM (see above)
- 2) Maximum pressure: 4500 psi
- 3) Install a pressure relief value on the annulus which is to be set at 4500 psi. This value is to be tested in the shop and at the job site prior to the job.
- 4) Anticipated Avg. Tubing Pressure: 2500 psi
- 5) Rig up to reverse out if required.
- 6) Stair step sand (Do not ramp)
- 7) Gradually ramp XL activator on pad to prevent gel out when 30# XL gel hits perfs.
- 8) Fresh Water requirements: 400 bbls usable.

Nipple up flowback equipment (flowback lines should be oriented so that flow can be directed to a tank or pit. All right angle bends to have targeted tees).

8) Flush 3 bbls short of top perf with slick water. Go to flush immediately after all of 8 ppg is in; do not wait for sand concentration to begin falling to go to flush. Shut in well and monitor pressure fall off for 15 minutes. Begin flowing back well on 1/8" choke, then rig down Dowell. Increase to 24/64" choke by the time the gel has broken as determined by prejob testing. Do not shut well in overnight. If well begins producing sand, pinch back on choke. Continue flowback until well dies or until flow has diminished to a low rate.

10) Swab well in.

⁹⁾ Clean out sand.



CONVENTIONAL AND SPECIAL CORE ANALYSIS GAS & LIQUID ANALYSIS • OIL FINGERPRINTING GEOLOGICAL ANSLYSIS • CLASTICS/CARBONATES SINGLE WELL/FIELD/REGIONAL STUDIES WELL COMPLETION/STIMULATION STUDIES ENVIRONMENTAL SERVICES

(915) 699-2468

2057 COMMERCE DRIVE

MIDLAND, TEXAS 79703

TEXACO E & P, INC . P.O BOX 2100 DENVER, CO 80201-2100 ATTN: Mr. Tim Shepard

JUNE 21, 1995 >file SDE31Fed5

FAX: (915) 699-2464

Thank you for allowing Reservoirs, Inc. to perform the compatibility analysis on your samples. The two water samples # 21649 (SDE 31 #5 – Bone Spring) and # 21650 (SDE 31 #9 – Brushy canyon) were filtered and mixed to prepare four mixtures as listed below.

1st Mixture – 80%–20% Mixture of sample # 21649 – sample # 21650 2nd Mixture – 60%–40% Mixture of sample # 21649 – sample # 21650 3rd Mixture – 40%–60% Mixture of sample # 21649 – sample # 21650 4th Mixture – 20%–80% Mixture of sample # 21649 – sample # 21650

The four mixtures were then allowed to settle for 48 Hours and then heated at 150 Deg. Fahrenheit for 48 Hours. During this period of time, no physical change or precipitation was observed in any of the mixtures.

These physical compatibility tests as well as theoretical compatibility analysis (API WATER ANALYSIS) indicate, that corrosion products or scale formation are not expected when mixing these two water samples.

It has been our pleasure to perform these analyses, should you have any questions or require further information, you may contact us at (915) 699-2468.

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. <u>11429</u> Exhibit No. <u>10</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: November 16, 1995

Sincere

Gilbert Khamis Analytical laboratory Manager



CONVENTIONAL AND SPECIAL CORE ANALYSIS GAS & LIQUID ANALYSIS •CLASTICS / CARBONATES GEOLOGICAL ANALYSIS •OL FINGERPRINTING SINGLE WELL / FIELD / REGIONAL STUDIES WELL COMPLETION / STIMULATION STUDIES ENVIRONMENTAL SERVICES

2057 COMMERCE DRIVE

MIDLAND, TEXAS 79703

(915) 699-2468

FAX (915) 699-2464

API FORM 45-1 Date Recd. **API WATER ANALYSIS REPORT FORM** 6-14-1995 Sample No. Date Sampled Company Texaco E&P, INC 21649 6-13-1995 Legal Description **County or Parish** Field State Well Formation Lease or Unit Depth Water, B/D SDE 31 #5 Bone Spring Type of Water (Produced, Supply, etc.) Sampling Point Sampled By

DISSOLVED SOLIDS

CATIONS	<i>mg/l</i>	<i>me/l</i>
Sodium, Na (calc.)	65,135	2,832
Calcium, Ca	6,400	320
Magnesium, Mg	1,320	110
Barium, Ba	0	0
ANIONS Chloride, Cl Sulfate, SO4 Carbonate, CO3 Bicarbonate, HCO3	115,160 100 0 975	$ \begin{array}{r} 3,244 \\ 2 \\ 0 \\ 16 \\ \end{array} $

425

0

Total Dissolved Solids (calc.) 189,090

Iron, Fe (total) ______ Sulfide, as H₂S _____

REMARKS & RECOMMENDATIONS:

Dissolved Oxygen : Less than 0.05 PPM

OTHER PROPERTIES

рН	6.3
Specific Gravity, 60/60 F.	1.110
Resistivity (ohm-meters) 77 °F.	0.048
Total Hardness, as CaCO ₃ mg/l	21,430
Total Alkalinity, as CaCO ₃ mg/l	
Supersaturation, as CaCO ₃ mg/l	

WATER PATTERNS — me/l

STANDARD



COPIES TO: ___

ANĂLYSIS BY:



CONVENTIONAL AND SPECIAL CORE ANALYSIS GAS & LIQUID ANALYSIS +CLASTICS / CARBONATES GEOLOGICAL ANALYSIS +OLL FINGERPRINTING SINGLE WELL / FIELD / REGIONAL STUDIES WELL COMPLETION / STIMULATION STUDIES ENVIRONMENTAL SERVICES

API FORM 45-1

2057 COMMERCE DRIVE MIDLAND, TEX

MIDLAND, TEXAS 79703

FAX (915) 699-2464

API WATE		S REPORT FORM				Date 6-1	Recd. 14-1995	
Company Texaco H	E&P, INC			Samp 21	ole No. 650	Dates 6-1	Sampled 3-1995	
Field	Ľ	egal Description			County or Parist	1	State	
Lease or Unit	Well	SDE 31 #9	Depth	Fo B	ormation rushy Canyor	Wat	er, B/D	
Type of Water (Produce	d, Supply, etc.)	Sampling F	Point	<u>_</u>	·····	Sam	pled By	

DISSOLVED SOLIDS

CATIONS Sodium, Na (calc.) Calcium, Ca Magnesium, Mg Barium, Ba	<i>mg/l</i> 87,745 13,200 2,450 0	<i>me/l</i> 3,815 660 204 0
ANIONS Chloride, Cl Sulfate, SO4 Carbonate, CO3 Bicarbonate, HCO3	<u>165,785</u> <u>335</u> 0 125	<u>4,670</u> 7 0 2

Total Dissolved Solids (calc.) 269,640

Iron, Fe	(total)
Sulfide.	as H ₂ S

40

REMARKS & RECOMMENDATIONS:

Dissolved Oxygen : 0.5 PPM

COPIES TO: _____

OTHER PROPERTIES

(915) 699-2468

pH	6.4
Specific Gravity, 60/60 F.	1.160
Resistivity (ohm-meters) 77 °F.	0.038
Total Hardness, as CaCO ₃ mg/l	43,080
Total Alkalinity, as CaCO ₃ mg/l	
Supersaturation, as CaCO ₃ mg/l	

WATER PATTERNS - me/l





ANALYSIS BY:

	08/30/95	15:14	~ #3	001
	Reservoir	SJE'I'S	OEOLOOICAL ANA BINGLE WELL WELL COMPLE ROUTINE AND	LYBIB + CLABTIGBIOARBONATES /FIELO/REGIONAL BTUDIES TION/BTIMULATION STUDIES D BREGIAL CORE ANALTSIS
1151 B	RITTMORE ROAD	HOUSTON, TEXAS 77043	(713) 932-7183	FAX (713) 932-0520
DATE:	August 30, Mr. Jim Do	2 92		
FAX #:	Texaco (303) 793-	4055		
FROM:	Danny Berr Supervisor Special Co	Y re Analysis	PHONE #: (713) FAX #: (713)	932-7314 467-7308
PAGES TO	FOLLOW: _	12		

Please find attached, the preliminary Rock Fluid Compatibility test results for the following samples:

<u>Sample</u>	<u>Depth (ft)</u>	<u>Well</u>
F 454	8616.5	SDE '19' No. 3 Well
F 455	8633.9	SDE '19' No. 3 Well
F 458	8642.4	SDE '19' No. 3 Well
F 459	8582.2	SDE Federal 31-4 Well
F 462	8590.0	SDE Federal 31-4 Well
F 463	8602.8	SDE Federal 31-4 Well

The test results indicate there was virtually no incompatibility between the Bone Springs Simfres, and the Brushy Canyon Simform.

Please do not hesitate to contact me if you have any questions or comments.

Texaco SDE ' 19 ' No.3 Well Lea County, New Mexico SRS 2009 / RSH 3210

Sample:	F 454	Porosity, (%BV):	13.3
Deptn, (ft):	8616.5	Perm. to Gas, (md):	0.125

Test Fluid. Brushy Canyon Simform

Initial Perm. to Brine, (md): 0.081

FORWARD FLOW DIRECTION

Permeability	Percent of
to Test Fluid	Initial Perm.
(md)	to Brine
0.081	100
0.081	100
0.081	100
0.081	100
0.081	100
0.081	100
0.081	100
0.081	100
0.081	100
0.081	100
	Permeability to Test Fluid (md) 0.081 0.081 0.081 0.081 0.081 0.081 0.081 0.081 0.081 0.081 0.081

Texaco SDE ' 19 ' No. 3 Well Lea County, New Mexico SRS 2009 / RSH 3210



Lea County, New Mexico SRS 2009 / RSH 3210

 Sample:
 F 455
 Porosity,(%BV):
 14.1

 Depth, (ft):
 8633.9
 Perm. to Gas, (md):
 0.483

Test Fluid: Brushy Canyon Simform

Initial Perm. to Brine, (md): 0.310

FORWARD FLOW DIRECTION

Cumulative	Permeability	Percent of			
Throughput	to Test Fluid	Initial Perm.			
(pore volumes)	(md)	to Brine			
2	0.306	98.7			
5	0.308	98.7			
10	0.306	98.7			
15	0.306	98.7			
20	0.306	98.7			
25	0.306	98.7			
30	0.306	98.7			
35	0.306	98.7			
40	0.306	98.7			
50	0.306	98.7			

Texaco SDE ' 19 ' No. 3 Well Lea County, New Mexico SRS 2009 / RSH 3210



0.641

ROCK FLUID COMPATIBILITY

Τοχαοο SDE 19 No.3 Well SRS 2009 / RSH 3210

Sample: F 458 Porosity, (%BV). 13.9 Depth, (ft): 8642.4 Perm. to Gas, (md):

Test Fluid: Brushy Canyon Simform

Initial Perm. to Brine, (md): 0.443

FORWARD FLOW DIRECTION

Cumulative	Permeability	Percent of			
Throughput	to Test Fluid	Initial Perm.			
(pore volumes)	(md)	to Brine			
2	0.445	100.5			
5	0.445	100.5			
10	0.445	100.5			
15	0.445	100,5			
20	0.445	100.5			
25	0.445	100.5			
30	0.445	100.5			
35	0.445	100.5			
40	0.445	100.5			
50	0.445	100.5			

Texaco SDE ' 19 ' No. 3 Well Lea County, New Mexico SRS 2009 / RSH 3210



Texaco SDE Federal 31-4 Well Lea County, New Mexico SRS 2009 / RSH 3210

 Sample:
 F 459

 Depth, (ft):
 8582.2

Porosity, (%BV): 19.1

Perm. to Gas, (md): 5.59

Test Fluid: Brushy Canyon Simform

Initial Perm. to Brine, (md): 4.01

FORWARD FLOW DIRECTION

Cumulative	Permeability	Percent of		
Throughput	to Test Fluid	Initial Perm.		
(pore volumes)	(md)	to Brine		
2	3.91	97.5		
5	3.91	97.5		
10	3.91	97.5		
15	3.91	07.6		
20	3.91	97.5		
25	3.91	97.5		
30	3.91	97.5		
35	3.91	97.5		
40	3.91	97.5		
50	3.91	97.5		

Texaco SDE Federal 31-4 Well Lea County, New Mexico SRS 2009 / RSH 3210



Texaco SDE Federal 31-4 Well Lea County, New Mexico SRS 2009 / RSH 3210

Sample: F 462 Depth, (ft): 8590.0

Porosity, (%BV): 15.5

Perm. to Gas, (md): 3.20

Test Fluid: Brushy Canyon Simform

Initial Perm. to Brine, (md): 2.33

FORWARD FLOW DIRECTION

Cumulative Throughout	Permeability	Percent of			
(pore volumes)	(md)	to Brine			
	. <u></u>				
2	2.27	97.4			
5	2.27	97.4			
10	2.27	97.4			
15	2.27	97.4			
20	2.27	97.4			
25	2.27	97.4			
30	2.27	97.4			
35	2.27	97.4			
40	2.27	97 4			
50	2.27	97.4			

Texaco SDE Federal 31-4 Well Lea County, New Mexico SRS 2009 / RSH 3210



Texaco SDE Federal 31-4 Well Lea County, New Mexico SRS 2009 / RSH 3210

 Sample:
 F 463

 Depth, (ft):
 8602.8

Porosity, (%BV): 14.8 Perm. to Gas, (md): 1.82

.

Test Fluid: Brushy Canyon Simform

initial Perm. to Brine, (md): 1.12

FORWARD FLOW DIRECTION

Cumulative Throughput (pore volumes)	Permeability to Test Fluid (md)	Percent of Initial Perm. to Brine
2	1.11	99.1
5	1.11	99.1
10	1.11	99.1
15	1.11	99.1
20	1.11	99.1
25	1.11	99.1
30	1.11	99.1
35	1.11	99.1
40	1.11	99 .1
50	1,11	99.1

Texaco SDE Federal 31-4 Well Lea County, New Mexico SRS 2009 / RSH 3210



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION **DIVISION FOR THE PURPOSE OF CONSIDERING:**

IN THE MATTER OF THE APPLICATION OF TEXACO EXPLORATION AND PRODUCTION INC. FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO. CASE NO. 11429

<u>AFFIDAVIT</u>

STATE OF NEW MEXICO)		
) ss.		
COUNTY OF SANTA FE)		

William F. Carr, attorney in fact and authorized representative of Texaco Exploration and Production Inc., the Applicant herein, being first duly sworn, upon oath, states that in accordance with the notice provisions of Rule 1207 of the New Mexico Oil Conservation Division the Applicant has attempted to find the correct addresses of all interested persons entitled to receive notice of this application and that notice has been given at the addresses shown on Exhibit "A" attached hereto as provided in Rule 1207.

SUBSCRIBED AND SWORN to before me this the day of November, 1995.

otary Public

My Commission Expires:

141. 1994

EXHIBIT A

Meridian Oil Inc. 3300 North "A", Building 6 Midland, TX 79705 Attn: Markus Thomerson

Mitchell Energy Corporation Post Office Box 4000 The Woodlands, TX 77387-4000 Attn: Mark Stephenson

Enron Oil & Gas Company 4000 N. Big Spring, Suite 500 Midland, TX 79705 Attn: Bruce Insalaco

Santa Fe Energy Resources, Inc. 550 W. Texas, Suite 1330 Midland, TX 79701 Attn: Kurt Anderson

Bureau of Land Management Fluid Minerals Section 1717 W. Second Street Roswell, NM 88201

BEFORE THE OIL CONSERVATION DIVISION Santa Fe, New Mexico

Case No. <u>11429</u> Exhibit No. <u>11</u>

Submitted by: <u>Texaco Exploration and Production Inc.</u>

Hearing Date: November 16, 1995

CAMPBELL, CARR & BERGE, P.A.

MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE

MICHAEL H. FELDEWERT TANNIS L. FOX TANYA M. TRUJILLO PAUL R. OWEN

JACK M. CAMPBELL OF COUNSEL JEFFERSON PLACE SUITE I - 110 NORTH GUADALUPE POST OFFICE BOX 2208 SANTA FE, NEW MEXICO 87504-2208 TELEPHONE: (505) 988-4421 TELECOPIER: (505) 983-6043

October 24, 1995

<u>CERTIFIED MAIL -</u> <u>RETURN RECEIPT REQUESTED</u>

Meridian Oil Inc. 3300 North "A", Building 6 Midland, TX 79705 Attn: Markus Thomerson

Re: Application of Texaco Exploration and Production Inc. for downhole commingling, Lea County, New Mexico

Dear Mr. Thomerson:

This letter is to advise you that Texaco Exploration and Production Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking authority to downhole commingle production from the Delaware formation, West Triste Draw-Delaware Pool, and the Bone Springs formation, South Sand Dunes-Bone Spring Pool, in the wellbore of all wells in a Development Area comprised of the W/2 E/2 and E/2 W/2 of Section 31, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico.

This case has been set for hearing before a Division Examiner on November 16, 1995. You are not required to attend this hearing, but as an offsetting operator who may be affected by this application, you may appear and present testimony. Failure to appear at the time of the hearing will preclude you from challenging the matter at a later date.

Parties appearing in cases have been requested by the Division (Memorandum 2-90) to file a Prehearing Statement substantially in the form prescribed by the Division. Prehearing statements should be filed by 4:00 o'clock p.m. on the Friday before a scheduled hearing. Meridian Oil Inc. Attn: Markus Thomerson October 24, 1995 Page 2

If you have no objection to this application, please sign the waiver line on the enclosed copy of this letter and return it to me at the above address.

Your attention to this matter is appreciated.

Very truly yours,

william & En

WILLIAM F. CARR ATTORNEY FOR TEXACO EXPLORATION AND PRODUCTION INC. WFC:mlh Enclosure cc: David Sleeper

WAIVER OF OBJECTION:

Company

Representative

Signature

Title

Date

	is yo	ur <u>RETURN</u>	ADDRESS	completed	on the r	everse side? [']
P 176 D16 878 Becauge for Certified Mali Schemance Coverage Meridian Oil Inc. 3300 North "A", Building 6 Midland, TX 79705	FS Form 3811 , December 1991	6. Signature (Addressee) 6. Signature (Agent)	3300 North "A", Building Midland, TX 79705 Attn: Markus Thomerson	Meridian Oil Inc.	does not permit. • Write "Return Receipt Requested" and the m • The Return Receipt will show to whom the a delivered.	 SENDER: Complete items 1 and/or 2 for additional s Complete items 3, and 4a & b. Print your name and address on the revers return this card to you. Attach this form to the front of the mailping the state of the state of
Attn: Markus Thomerson	÷ US	$\langle \rangle$	6	,	ailpiec rticle v	service se of t
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Postmark or Date OCT 2 4 1995	RETURN RECEIPT	Idress (Only if requested Thank	$\square \operatorname{Return Receipt for}_{v} \operatorname{Return Receipt for}_{v} \operatorname{receipt for}_{v} re$	I Insured g Return	Restricted Delivery	wish to receive the services (for an extra ce Addressee's Address

PS Form 3800, June 1991

CAMPBELL, CARR & BERGE, P.A.

LAWYERS

MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE

MICHAEL H. FELDEWERT TANNIS L. FOX TANYA M. TRUJILLO PAUL R. OWEN

JACK M. CAMPBELL OF COUNSEL JEFFERSON PLACE SUITE I - 110 NORTH GUADALUPE POST OFFICE BOX 2208 SANTA FE, NEW MEXICO 87504-2208 TELEPHONE: (505) 988-4421 TELECOPIER: (505) 983-6043

October 24, 1995

<u>CERTIFIED MAIL -</u> <u>RETURN RECEIPT REQUESTED</u>

Mitchell Energy Corporation Post Office Box 4000 The Woodlands, TX 77387-4000 Attn: Mark Stephenson

Re: Application of Texaco Exploration and Production Inc. for downhole commingling, Lea County, New Mexico

Dear Mr. Stephenson:

This letter is to advise you that Texaco Exploration and Production Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking authority to downhole commingle production from the Delaware formation, West Triste Draw-Delaware Pool, and the Bone Springs formation, South Sand Dunes-Bone Spring Pool, in the wellbore of all wells in a Development Area comprised of the W/2 E/2 and E/2 W/2 of Section 31, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico.

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If you have no objection to this application, please sign the waiver line on the enclosed copy of this letter and return it to me at the above address.

Your attention to this matter is appreciated.

Very truly yours, Man

WILLIAM F. CARR ATTORNEY FOR TEXACO EXPLORATION AND PRODUCTION INC. WFC:mlh Enclosure cc: David Sleeper

WAIVER OF OBJECTION:

Company

Representative

Signature

Title

Date



CAMPBELL, CARR & BERGE, P.A.

LAWYERS

MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE

MICHAEL H. FELDEWERT TANNIS L. FOX TANYA M. TRUJILLO PAUL R. OWEN

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October 24, 1995

<u>CERTIFIED MAIL -</u> <u>RETURN RECEIPT REQUESTED</u>

Enron Oil & Gas Company 4000 N. Big Spring, Suite 500 Midland, TX 79705 Attn: Bruce Insalaco

Re: Application of Texaco Exploration and Production Inc. for downhole commingling, Lea County, New Mexico

Dear Mr. Insalaco:

This letter is to advise you that Texaco Exploration and Production Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking authority to downhole commingle production from the Delaware formation, West Triste Draw-Delaware Pool, and the Bone Springs formation, South Sand Dunes-Bone Spring Pool, in the wellbore of all wells in a Development Area comprised of the W/2 E/2 and E/2 W/2 of Section 31, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico.

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Enron Oil & Gas Company Attn: Bruce Insalaco October 24, 1995 Page 2

If you have no objection to this application, please sign the waiver line on the enclosed copy of this letter and return it to me at the above address.

Your attention to this matter is appreciated.

Very truly yours, Mant

WILLIAM F. CARR ATTORNEY FOR TEXACO EXPLORATION AND PRODUCTION INC. WFC:mlh Enclosure cc: David Sleeper

WAIVER OF OBJECTION:

Company

Representative

Signature

Title

Date



PS Form **3800,** June 1991

CAMPBELL, CARR & BERGE, P.A.

LAWYERS

MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE

MICHAEL H. FELDEWERT TANNIS L. FOX TANYA M. TRUJILLO PAUL R. OWEN

JACK M. CAMPBELL OF COUNSEL JEFFERSON PLACE SUITE I - 110 NORTH GUADALUPE POST OFFICE BOX 2208 SANTA FE, NEW MEXICO 87504-2208 TELEPHONE: (505) 988-4421 TELECOPIER: (505) 983-6043

October 24, 1995

<u>CERTIFIED MAIL -</u> <u>RETURN RECEIPT REOUESTED</u>

Santa Fe Energy Resources, Inc. 550 W. Texas, Suite 1330 Midland, TX 79701 Attn: Kurt Anderson

Re: Application of Texaco Exploration and Production Inc. for downhole commingling, Lea County, New Mexico

Dear Mr. Anderson:

This letter is to advise you that Texaco Exploration and Production Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking authority to downhole commingle production from the Delaware formation, West Triste Draw-Delaware Pool, and the Bone Springs formation, South Sand Dunes-Bone Spring Pool, in the wellbore of all wells in a Development Area comprised of the W/2 E/2 and E/2 W/2 of Section 31, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico.

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Santa Fe Energy Resources, Inc. Attn: Kurt Anderson October 24, 1995 Page 2

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Your attention to this matter is appreciated.

Very truly yours, llau

WILLIAM F. CARR ATTORNEY FOR TEXACO EXPLORATION AND PRODUCTION INC. WFC:mlh Enclosure cc: David Sleeper

WAIVER OF OBJECTION:

Company

Representative

Signature

Title

Date

Is your <u>RET</u>	URN	ADD	RES	<u>s</u> co	mp	letec	l on	the	rev	ers	•	side	7
6. Signaduse Argenst PS Form 3811, December 1991 xUS. GPO: 1983-352	5. Signature (Addressee)		Midland, TX 79701	550 W. Texas, Suite 1330	Santa Fe Energy Resources, Inc.	· ·	2 Article Addressed to:	 Write "Return Receipt Requested" on the mailpiece below the art The Return Receipt will show to whom the article was delivered a 	 Attach this form to the front of the mailpiece, or on the back i dees not permit. 	 Print your name and address on the reverse of this form so the return this-card to you. 	Complete items 3, and 4a & b.	 Complete items 1 and/or 2 for additional services. 	
DOMESTIC RETURN RECEIPT	8. Addressee's Address (Only if requested and fee is paid)	7. Date of Delivery 10 26-95 u	Express Mail Return Receipt for	Cortified COD	4b. Service Type	P176 016 879	4 Article Number	and the date 2. Restricted Delivery	if space 1. Addressee's Address	hat we can fee):	following services (for an extra g	I also wish to receive the	

P 176 016 879



Santa Fe Energy Resources, Inc. 550 W. Texas, Suite 1330 Midland, TX 79701 Attn: Kurt Anderson

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CAMPBELL, CARR & BERGE, P.A.

LAWYERS

MICHAEL B. CAMPBELL WILLIAM F. CARR BRADFORD C. BERGE

MICHAEL H. FELDEWERT TANNIS L. FOX TANYA M. TRUJILLO PAUL R. OWEN

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October 24, 1995

<u>CERTIFIED MAIL -</u> <u>RETURN RECEIPT REQUESTED</u>

Bureau of Land Management Fluid Minerals Section 1717 W. Second Street Roswell, NM 88201

Re: Application of Texaco Exploration and Production Inc. for downhole commingling, Lea County, New Mexico

Dear Ms. Myers:

This letter is to advise you that Texaco Exploration and Production Inc. has filed the enclosed application with the New Mexico Oil Conservation Division seeking authority to downhole commingle production from the Delaware formation, West Triste Draw-Delaware Pool, and the Bone Springs formation, South Sand Dunes-Bone Spring Pool, in the wellbore of all wells in a Development Area comprised of the W/2 E/2 and E/2 W/2 of Section 31, Township 23 South, Range 32 East, NMPM, Lea County, New Mexico.

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If you have no objection to this application, please sign the waiver line on the enclosed copy of this letter and return it to me at the above address.

Your attention to this matter is appreciated.

Very truly yours, llen

WILLIAM F. CARR ATTORNEY FOR TEXACO EXPLORATION AND PRODUCTION INC. WFC:mlh Enclosure cc: David Sleeper

WAIVER OF OBJECTION:

Company

Representative

Signature

Title

Date



P 176 016 881

Bureau of Land Management Fluid Minerals Section

1717 W. Second Street Roswell, NM 88201

