

**History of circumstances surrounding
The Bertha J. Barber No. 12 well
Located 330' FNL and 990" FEL of
Section 7-20S-37E, Lea Co., NM**

- I. On or about October 17, 2000, Sapient received a letter from Chevron stating that it would seek regulatory approval to deepen an existing well, the G.C. Mathews #12, at a non standard location for the Monument Tubb West Pool at a location 330' North of Sapient's lease line. The letter stated that any objections to the application must be filed within 20 days.
- II. Sapient's initial review revealed that Chevron had other available wellbores in the SE/4 of Section 6 that were at standard locations which appeared to be re-entry candidates therefore, Sapient, believing it had an NMOCD approved unorthodox location filed an objection to Chevron's application.
- III. Falcon Creek purchased the Bertha Barber #12 well, along with several hundred other wells, from Cross Timbers Oil Company on April 1, 2000. Prior to such purchase Cross Timbers represented that all properties complied with any required regulatory permits and/or other orders needed to operate, produce and own the properties. Such representations have now expired. Further, Falcon Creek personnel performed a routine due diligence and found no evidence or notice, with regard to the Bertha Barber #12 that further regulatory approval was needed.
- IV. Sapient Energy Corp. acquired all of Falcon Creek, through merger agreement on July 14, 2000. In such merger, Sapient acquired 340 producing wells. Sapient relied on Falcon Creek's expertise as an experienced and knowledgeable operator of New Mexico properties to have in place all needed State orders to properly and legally produce all wells. In addition, a cursory review of all properties did not reveal or disclose anything that would lead one to believe additional State approvals were needed. As such, Sapient gave full value for the 100% WI, 87.5% NRI which Falcon Creek owned in the well.
- V. After Chevron filed its request for a unorthodox location, a closer review of the well file by Sapient indicated that Cross Timbers, as owner / operator of the Bertha Barber #12 prior to its sale to Falcon Creek on April 1, 2000, recompleted the well from an oil well to a gas well producing from the Tubb formation.
 - A. The file contained a State of New Mexico form C-103 dated August 10, 1999 wherein Cross Timbers provides notice that it intended to recomplete the well in the Tubb formation. Said form C-103 was approved by the State on September 20, 1999.
 - B. Cross Timbers then filed a State form C-105 dated September 9, 1999 providing notice that the well had been recompleted as a Tubb gas well.
 - C. Cross Timbers then filed a form C-103 dated September 9, 1999 providing notice that the well had indeed been recompleted in the Tubb formation as a gas well. The form was approved by the State on September 20, 1999.
 - D. Cross Timbers then filed a form C-102 dated September 9, 1999 showing an unorthodox Tubb gas well location being 330' FNL and 660' FEL of Section 7-20S-37E and the dedication of a 160 spacing unit described as the E/2 E/2 of said Section 7.
 - E. The State then approved, on September 20, 1999, Cross Timbers form C-104 allowable request, which grants an allowable for a wildcat Tubb gas well.

**BEFORE THE
OIL CONSERVATION COMMISSION**
Case No. 12605 Denovo Exhibit No. _____
Submitted By: _____
Sapient Energy Corp.
Hearing Date: November 6, 2001

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F. The well was then sold to Falcon Creek on April 1, 2000 and on April 14, 2000 the State approved Falcon Creek's allowable request form C-104 granting an allowable to produce gas from the Monument Tubb West Gas Pool.

VI. There was no indication in the files at any time that Cross Timbers or Falcon Creek had violated any regulatory rules or requirements nor does there exist any internal memos or letters of notification from the State of New Mexico that further approvals were required. To the contrary, it appeared to Sapient, who had not previously owned or operated any properties in New Mexico until its merger with Falcon Creek, that all needed State Regulatory papers had been approved.

VII. It was not until our attorney, after receipt of Chevron's request to deepen the G.C. Mathews #12, and after his review of the records in Sapient's file and at the NMOC in Santa FE that Sapient was made aware

VIII. In Addition to Sapient paying Falcon Creek full value for 100% of the ~~Bertha~~ Barber #12 well, Sapient has also paid its 79 different royalty owners \$137,000.

SEP 23 1999

Form C-103
Revised 1-1-89State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505WELL API NO.
30-025-059785. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)7. Lease Name or Unit Agreement Name
Bertha J. Barber1. Type of Well:
OIL WELL ☒ GAS WELL ☐ OTHER8. Well No.
122. Name of Operator
Cross Timbers Operating Company3. Address of Operator
3000 N. Garfield, Suite 175 Midland, Texas 797059. Pool name or Wildcat
Monument Abo4. Well Location
Unit Letter A 330 Feet From The North Line and 660 Feet From The East Line

Section 7 Township 20S Range 37E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
3557' GR11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:FORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐
OTHER: Recompl in Tubb ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

MIRU compl unit. Set RBP @ +6,475'. PUH & set pkr @ +6440'. Press test RBP to 1,500 psig. Unset pkr & POH w/pkr & tbq. Perf Tubb w/3-3/8" csg gun @ 6,424-6,419', 6,412'-6410', 6,389-6,378' & 6,367'-6,364' w/1 JSPF (25 holes). RIH w/treating pkr, SN & 2-3/8" J-55 production tbq to 6,400'. Spot 2 bbls 15% NEFE HCl across perfs. PUH & set pkr @ +6,325'. Breakdown & EIR into Tubb perfs fr/6,424'-6,364' w/15% NEFE HCl. Acidize Tubb perfs fr/6,424-6,364' w/2,350 gals 15% NEFE HCl & 38 - 7/8" 1.3 SG ball sealers. Swab test Tubb. RIH w/tbg, TAC, rods & pump. RWTP. RDMO PU.

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 3
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

BEFORE THE

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

SIGNATURE Darrin L. Steed TITLE Operations Engineer DATE 8/10/99
OR PRINT NAME Darrin L. Steed TELEPHONE NO. 915/682-8873

(This space for State Use)

Dated, Signed By
Paul Kautz

SEP 20 1999

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

BEFORE THE
OIL CONSERVATION COMMISSION

Case No. 12605 Denovo Exhibit No. _____

Submitted By: **Sapient Energy Corp.**
Hearing Date: November 6, 2001

Form C-105
Revised 1-1-89

Submit to Appropriate
District Office
State Lease - 6 copies
Federal Lease - 5 copies

DISTRICT I
Box 1980, Hobbs, NM 88240

DISTRICT II
Box 1980, Artesia, NM 88210

DISTRICT III
Box 1980, Aztec, NM 87410

OIL CONSERVATION DIVISION
2040 Pacheco St.
Santa Fe, NM 87505

WELL API NO.

30-025-05978

5. Indicate Type Of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

a. Type of Well:

OIL WELL ☐

GAS WELL ☒

DRY ☐

OTHER _____

b. Type of Completion:

NEW ☐

WORK ☐

OVER ☐

DEEPEN ☐

PLUG ☒

BACK ☒

DIFF ☐

RESVR ☐

OTHER Recompl to gas

Name of Operator

Cross Timbers Operating Company

Address of Operator

3000 N. Garfield, Suite 175 Midland, Texas 79705

Well Location

Unit Letter **A** : **330** Feet From The **North** Line and **660** Feet From The **East** Line

Section **Sec. 7**

Township **20S**

Range **37E**

NMPM

Lea

Countv

10. Date Spudded

3/15/99 (PB)

11. Date T.D. Reached

12. Date Compl (Ready to Prod.)

8/21/99

13. Elevations (DF & RKB, RT, GR, etc.)

3557' GR

14. Elev. Casinghead

15. Total Depth

531'

16. Plug Back T.D.

6475'

17. If Multiple Compl. How Many Zones?

18. Intervals Drilled By

Rotary Tools

Cable Tools

Well Ser Unit

19. Producing Interval(s), of this completion - Top, Bottom, Name

3301-6424' (Tubb)

20. Was Directional Survey Made

N/A

21. Type Electric and Other Logs Run

None on plug back

22. Was Well Cored

N/A

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	899'	17-1/4"	750 sx	None
9-5/8"	36#	2898'	12-1/4"	1000 sx	None
7"	20#, 23#	5300'	8-3/4"	350 sx	None
4-1/2"	11.6#	7528'	6-1/4"	365 sx	None

LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN
None				

TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8"	6332'	6332'

26. Perforation record (interval, size, and number)

5314-6424' (3-3/8" csg gun. 25 holes. 1 JSPF)

27. **ACID, SHOT, FRACTURE, CEMENT, SOEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
6364-6424'	2350 g 15% NEEF HCl acid

PRODUCTION

28. First Production

3/21/99

Production Method (Flowing, gas lift, pumping - Size and type pump)

Flowing

Well Status (Prod. or Shut-in)

Prod.

29. First Test

3/21/99

Hours Tested

24

Choke Size

28/64"

Prod'n For Test Period

0

Oil - Bbl.

0

Gas - MCF

610

Water - Bbl.

0

Gas - Oil Ratio

30. Tubing Press.

15

Casing Pressure

0

Calculated 24-Hour Rate

0

Oil - Bbl.

0

Gas - MCF

610

Water - Bbl.

0

Oil Gravity - API (Corr.)

31. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

Test Witnessed By

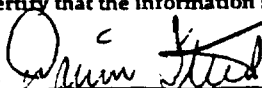
Jim Baker

32. Attachments

None

I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature



Printed Name

Darrin L. Steed

Title

Oper. Engineer

Date **9/09/99**

Submit 3 Copies To Appropriate District
Office
District I
625 N. French Dr., Hobbs, NM 87240
District II
South First, Artesia, NM 87210
District III
Rio Brazos Rd., Aztec, NM 87410
District IV
4040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

WELL API NO. 0-025-05978
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Bertha J. Barber
8. Well No. 12
9. Pool name or Wildcat Wildcat Tubb
10. Elevation (Show whether DR, RKB, RT, GR, etc.) GR 3557'

SUNDRY NOTICES AND REPORTS ON WELLS
DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

Type of Well:
Oil Well ☐ Gas Well ☒ Other

Name of Operator
Cross Timbers Operating Company

Address of Operator
000 N. Garfield, Suite 175 Midland, TX 79705

Well Location
Unit Letter **A** : **330** feet from the **North** line and **660** feet from the **East** line
Section **7** Township **20S** Range **37E** NMPM County **Lea**

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
REWORK OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

SUBSEQUENT REPORT OF:
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: ☐ OTHER: **Plug back & recompl in Tubb** ☒

2. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

8/16/99 Set RBP @ 6475' & press tstd RBP to 1500 psig, OK. Perf Tubb fr/6,364-6,424' w/1 JSPP (25 holes). TIH w/pkr, SN & tbg to 6,332'. Acidized Tubb perfs fr/6364-6424' w/2,350 gals 15% NEFE HCl & 38 BS. RU swab & swbd to tst tk.

BEFORE THE
OIL CONSERVATION COMMISSION
Case No.12605 Denovo Exhibit No. **5**
Submitted By: **Sapient Energy Corp.**
Hearing Date: November 6, 2001

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

SIGNATURE **Darrin L. Steed** TITLE **Operations Engineer** DATE **9/09/99**

Print name **Darrin L. Steed** Telephone No. **915/682-8873**

(This space for State use)

APPROVED BY **[Signature]** TITLE **Geologist** DATE **SEP 20 1999**

Conditions of approval, if any:

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
311 South First, Artesia, NM 88210
District III
1800 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-025-05978		* Pool Code 96 968		* Pool Name WILDCAT TUBB	
* Property Code 3341		* Property Name Bertha J. Barber			* Well Number 12
* OGRID No. 005380		* Operator Name Cross Timbers Operating Company			* Elevation 3557'

¹⁰ Surface Location


UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	7	20S	37E		330	North	660	East	Lea

¹¹ 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 160	* 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

¹⁶										¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature DARRIN L. STEED Printed Name OPERATIONS ENGINEER Title 9/09/99 Date
										¹⁸ 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. Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 6
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
Lawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-104
Revised October 18, 19
Instructions on ba
Submit to Appropriate District O
5 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

REC'D / MIDLAND

SEP 23 1999

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cross Timbers Operating Company 3000 N. Garfield, Suite 175 Midland, Texas 79705		² OGRID Number 005380
THIS WELL HAS BEEN PLACED IN THE POOR DESIGNATED BELOW. IF YOU DO NOT CONCUR NOTIFY THIS OFFICE.		³ Reason for Filing Code RC
⁴ API Number 30-0 25-05978	⁵ Pool Name Wildcat Tubb	⁶ Pool Code 96968
⁷ Property Code 3341	⁸ Property Name Bertha J. Barber	⁹ Well Number 12

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	7	20S	37E		330	North	650	East	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
¹² Lse Code P	¹³ Producing Method Code F	¹⁴ Gas Connection Date 8/21/99	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
017407	Petro Sources Partnership Ltd 9802 Westheimer, Suite 900 Houston, TX 77042	0840210	O	A-7-20S-37E
024650	Dynegy Midstream Service, LTD 6 Desta Drive, Suite 5800 Midland, TX 79705-5050	0840230	G	

IV. Produced Water

²³ POD 0840250	²⁴ POD ULSTR Location and Description A-7-20S-37E
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V. Well Completion Data

²⁵ Spud Date 8/16/99 (PB)	²⁶ Ready Date 8/21/99	²⁷ TD 7530'	²⁸ PBTD 6475'	²⁹ Perforations 6364-6424' (Tubb)	³⁰ DHC, DC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
17-1/4"	13-3/8"	899'	750 sx		
12-1/4"	9-5/8"	2898'	1000 sx		
8-3/4"	7"	5300'	350 sx		
6-1/4"	4-1/2"	7528'	365 sx		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date 8/21/99	³⁷ Test Date 8/30/99	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure FTP 150	⁴⁰ Csg. Pressure 0
⁴¹ Choke Size 28/64"	⁴² Oil 0	⁴³ Water 0	⁴⁴ Gas 610	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Arrin L. Steed</i>		OIL CONSERVATION DIVISION Approved by: <i>Paul B. [Signature]</i> Title: <i>Geologist</i>	
Printed name: Arrin L. Steed		Approval Date: SEP 20 1999	
Title: Operations Engineer			
Date: 9/09/99	Phone: 915/682-8873		

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature	Printed Name

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No.
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

GAS - OIL RATIO TEST

Operator Cross Timbers Operating Company										County Lea									
Address 3000 N. Garfield, Suite 175 Midland, Texas 79705										Monument Abo									
Pool										TYPE OF TEST - (X)									
										SCHEDULED <input checked="" type="checkbox"/> X									
										COMPLETION <input type="checkbox"/>									
										SPECIAL <input type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS-OIL RATIO CU FT/BBL					
		U	S	T	R						WATER BBL.S.	GRAV. OIL	OIL BBL.S.		GAS M.C.F.				
Bertha J. Barber	12	A	7	20S	37E	8/02/99	P			24	4	38.6	4	9500					
<p>BEFORE THE</p> <p>OIL CONSERVATION COMMISSION</p> <p>Case No. 12605 Denovo Exhibit No. 8</p> <p>Submitted By: Sapient Energy Corp.</p> <p>Hearing Date: November 6, 2001</p>																			
<p>Instructions:</p> <p>During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.</p> <p>Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 F. Specific gravity base will be 0.60.</p> <p>Report casing pressure in lieu of tubing pressure for any well producing through casing.</p> <p>2 Rule 301, Rule 1116 & appropriate pool rules.</p>																			
<p>I hereby certify that the above information is true complete to the best of my knowledge and belief.</p> <p style="text-align: right;"><i>Janice Courtney</i> Signature Janice Courtney Printed name and title Regulatory Tech 9/01/99 Date 915/682-8873 Telephone No.</p>																			

District I
1625 N. French Dr. Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
70 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address Falcon Creek Resources, Inc. 621 17th Street, Suite 1800 Denver, CO 80293-0621		2 OGRID Number 169415	
4 API Number 30-0 25-05978		Reason for Filing Code CH, effective April 1, 2000	
5 Pool Name Monument Tubb West Gas		6 Pool Code 96968	
7 Property Code 25641		8 Property Name Bertha J. Barber	
		9 Well Number 12	

II. Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	7	20S	37E		330	North	660	East	Lea

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
12 Lsc Code P	13 Producing Method Code F	14 Gas Connection Date 8/21/99		15 C-129 Permit Number		16 C-129 Effective Date		17 C-129 Expiration Date	

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD (ULSTR Location and Description)
017407	Petro Source Partnership Ltd. 9801 Westheimer, Suite 900 Houston, TX 77042	0840210	O	A-7-20S-37E
024650	Dynegy Midstream Services, LP 6 Desta Drive, Suite 3300 Midland, TX 79705	0840230	G	A-7-20S-37E

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 9
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

IV. Produced Water

23 POD 0840250	24 POD (ULSTR Location and Description) A-7-20S-37E
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V. Well Completion Data

25 Spud Date	26 Ready Date	27 TD	28 PBTD	29 Perforations	30 DHC, MC
31 Hole Size		32 Casing & Tubing Size		33 Depth Set	

VI. Well Test Data

35 Date New Oil	36 Gas Delivery Date	37 Test Date	38 Test Length	39 Tbg. Pressure	40 Csg. Pressure
41 Choke Size	42 Oil	43 Water	44 Gas	45 AOF	46 Test Method

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature: *H.J. Kagie*

Printed name:
H.J. Kagie

Title:
Chief Executive Officer

Date: March 31, 2000

Phone: 303-675-0007

OIL CONSERVATION DIVISION

Approved by:

Chris Williams
DISTRICT SUPERVISOR

Title:

DISTRICT SUPERVISOR

Approval Date:

APR 14 2001

48 If this is a change of operator fill in the OGRID number and name of the previous operator
Edwin S. Ryan, Jr. CROSS TIMBERS OPERATING COMPANY
Edwin S. Ryan, Jr. Vice President - Land OGRID #5380 3/31/2000

Previous Operator Signature

Printed Name

Title

Date

1536 BERTHA J BARBER #12 (ABO)

State: NM Rev-Hold: NO

Deck: 1 Effective Date: 02/01/98 Name:

Perm

Participants										
Entity Code	Entity Name	ST Rev. Hold	Memo Int. Type	Decimal Interest	Rev-Tax #1	Rev-Tax #2	Rev-Tax #3	Rev-Tax #4	Auto	Susp
1	SAPIENT ENERGY CORP. 8801 S. YALE, SUITE 150 TULSA OK 74137	OK	RI	0.0001399600	0.0001399600	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 73-1532726								
1	SAPIENT ENERGY CORP. 8801 S. YALE, SUITE 150 TULSA OK 74137	OK	WI	0.8750000000	0.8750000000	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 73-1532726								
1043	TEXACO EXPL & PROD INC PO BOX 841350 DALLAS TX 75284-1350	TX	RI	0.0625000000	0.0625000000	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 510-26-5713								
4904	ADOBE OIL & GAS INC 1000 BALLPARK WAY, STE 204 ARLINGTON TX 76011	TX	RI	0.0015625000	0.0015625000	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 75-2588742								
4925	AQUAENCO INC P O BOX 702416 TULSA OK 74170-2416	OK	RI	0.0004882800	0.0004882800	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 73-1338841								
4933	ASPEN LAND & EXPLORATION CO P O BOX 4335 TULSA OK 74159	OK	RI	0.0007324200	0.0007324200	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 74-2081085								
4972	PETER L BAUERLEIN 13807 CHITTUM WOODS SAN ANTONIO TX 78232-5457	TX	RI	0.0000178600	0.0000178600	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 450-11-6977								
5024	COLLEEN C BOOTH TR 12-12-94 COLLEEN CATHEY BOOTH, TTEE 915 W KENNEWICK AVE KENNEWICK WA 99336-3354	WA	RI	0.0003182000	0.0003182000	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 542-18-3514								
5033	NORMA W BRADY C/O LIBERTY & TRUST A/C #72-7704661 15 EAST 5TH STREET TULSA OK 74103	OK	RI	0.0011905000	0.0011905000	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 445-18-2210								
5034	MARY DEBORA BRADY 1804 LAKE CREST LANE PLANO TX 75023-7442	TX	RI	0.0005952500	0.0005952500	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 431-98-8575								
5035	WYATT TATE BRADY P O BOX 6034 SPRINGDALE AR 72766	AR	RI	0.0005952500	0.0005952500	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 431-94-5844								
5054	PETER G BURNETT P O BOX #70 KENILWORTH IL 60043	IL	RI	0.0001953000	0.0001953000	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 322-18-4181								
5060	NANCY E CARLSON 3770 S YAQUI DR #104 FLAGSTAFF AZ 86001-6670	AZ Hold	RI	0.0000976000	0.0000976000	0.0000000000	0.0000000000	0.0000000000	N	
		ID:								
5091	TERESA CHERRY REPORTED UNCLAIMED 1996	Hold	RI	0.0000195400	0.0000195400	0.0000000000	0.0000000000	0.0000000000	Y	
		ID:								
5104	ROZELLE CLEVELAND U/W/O TX COMM BANK, TTEE #20-0763-00 P O BOX 201595 HOUSTON TX 77216-1595	TX	RI	0.0000488500	0.0000488500	0.0000000000	0.0000000000	0.0000000000	N	
		ID: 75-6812541								
5123	CONCORD OIL COMPANY ALAMO NATIONAL BLDG 105 S ST MARY'S ST STE 1500 SAN ANTONIO TX 78205-2898	TX	RI	0.0001071900	0.0001071900	0.0000				
		ID: 74-1286553								

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No.
Submitted By:
Sapient Energy Corp.

10

1536 BERTHA J BARBER #12 (ABO)

State:NM Rev-Hold:NO

10 Deck:1 EffectiveDate:02/01/98 Name:

Perm

Entity Code	Entity Name	ST Rev. Hold	Memo Int. Type	Decimal Interest	Participants				Auto Susp
					Rev-Tax #1	Rev-Tax #2	Rev-Tax #3	Rev-Tax #4	
5133	EVERETT COON, JR 3536 RANKIN DALLAS TX 75205	TX	RI	0.0001562500	0.0001562500	0.0000000000	0.0000000000	0.0000000000	N
5132	BETTY KYTE DREESSEN IRREVO TR DT 12/23/58 ID POWELL TTEE P O BOX 1665 LOS ALTOS CA 94022	CA	RI	0.0003794500	0.0003794500	0.0000000000	0.0000000000	0.0000000000	N
5133	BETTY M DREESSEN REVOC LIVING TR DT 10/17/77 BM DREESSEN TTEE P O BOX 817 LOS ALTOS CA 94022	CA	RI	0.0005929000	0.0005929000	0.0000000000	0.0000000000	0.0000000000	N
5134	CECILE MARIE DREESSEN P O BOX 864 RIPON CA 95366-0864	CA	RI	0.0000711500	0.0000711500	0.0000000000	0.0000000000	0.0000000000	N
5135	EDWARD T DREESSEN P O BOX 416 LOS ALTOS CA 94022	CA	RI	0.0000711500	0.0000711500	0.0000000000	0.0000000000	0.0000000000	N
5217	ENEX RESOURCES CORP 1221 LAMAR, STE 1020 HOUSTON TX 77010	TX Hold	RI	0.0003213500	0.0003213500	0.0000000000	0.0000000000	0.0000000000	N
5218	WILLIAM C FRENCH, III 714 GOLDEN BEAR KINGWOOD TX 77339	TX	RI	0.0000244100	0.0000244100	0.0000000000	0.0000000000	0.0000000000	N
5220	CHARLOTTE L GEDGE 407 SOUTH ST WEST DUNDEE IL 60118	IL	RI	0.0000977000	0.0000977000	0.0000000000	0.0000000000	0.0000000000	N
5300	KENNETH H GRAY D/B/A MOUNTAIN HOME OIL CO 4505 MEADOWLARK AVE MIDLAND TX 79707	TX	RI	0.0000162700	0.0000162700	0.0000000000	0.0000000000	0.0000000000	N
5307	SHERMAN GRIGGS 192 N 87TH ST WAUWATOSHA WI 53226	WI	RI	0.0000488300	0.0000488300	0.0000000000	0.0000000000	0.0000000000	N
5308	C W GRIMES TR, G MCFARLAND TTEE C/O GRIMES OPERATING CO 2525 E 21ST ST, STE 205 TULSA OK 74114-1747	OK	RI	0.0073940000	0.0073940000	0.0000000000	0.0000000000	0.0000000000	N
5309	OTHA H GRIMES FOUNDATION V KIDD, R JAMES, M GRIMES F HENKE, CO-TTEES BOX 3183 TULSA OK 74101	OK	RI	0.0022321000	0.0022321000	0.0000000000	0.0000000000	0.0000000000	N
5337	JEROME T HANNERS P O BOX 1224 LOVINGTON NM 88260	NM	RI	0.0003906000	0.0003906000	0.0000000000	0.0000000000	0.0000000000	N
5336	HOME-STAKE OIL & GAS CO PARKWAY CENTER II 2805 N DALLAS PARKWAY STE 100 PLANO TX 75093	TX	RI	0.0038573500	0.0038573500	0.0000000000	0.0000000000	0.0000000000	N
5337	HOSFELDT FAMILY PARTNERS 227 BRIGHTON LN REDWOOD CITY CA 94061	CA	RI	0.0001930000	0.0001930000	0.0000000000	0.0000000000	0.0000000000	N
5339	MADELINE C HOUSEL UNCLAIMED PROPERTY DIV (1996) P O BOX 12019 AUSTIN TX 78711-2019	TX	RI	0.0000977000	0.0000977000	0.0000000000	0.0000000000	0.0000000000	N

1: 1536 BERTHA J BARBER #12 (ABO) State:NM Rev-Hold:NO
10 Deck:1 EffectiveDate:02/01/98 Name: Perm

Entity Code	Entity Name	Participants			Revenue Tax-Percentages				Auto Susp
		ST Rev. Hold	Memo Int. Type	Decimal Interest	Rev-Tax #1	Rev-Tax #2	Rev-Tax #3	Rev-Tax #4	
5620	ORION PROPERTIES INC C/O DONALD W STEPHENS 11776 S 76TH E AVE BIXBY OK 74008	OK	RI	0.0001302000	0.0001302000	0.0000000000	0.0000000000	0.0000000000	N
		ID:73-1375927							
5625	PACTOLA DEVELOPMENT CO P O BOX 701342 TULSA OK 74170-1342	OK	RI	0.0002441300	0.0002441300	0.0000000000	0.0000000000	0.0000000000	N
		ID:73-1265022							
5645	JUDI MILLER PERKINSON 9005 E SOUTH FAIRMONT IN 46928	IN	RI	0.0000040600	0.0000040600	0.0000000000	0.0000000000	0.0000000000	N
		ID:312-80-8871							
5658	EUPHEMIA JANE PIERCE UNCLAIMED PROPERTY DIVISION P O BOX 12019 AUSTIN TX 78711-2019	TX	RI	0.0000977000	0.0000977000	0.0000000000	0.0000000000	0.0000000000	N
		ID:							
5662	MURIEL PLETCHER 3903 DEWBERRY LN ST JAMES CITY FL 33956	FL	RI	0.0020089500	0.0020089500	0.0000000000	0.0000000000	0.0000000000	N
		ID:275-28-8232							
5667	INGRID POWELL P O BOX 416 LOS ALTOS CA 94022	CA	RI	0.0000711500	0.0000711500	0.0000000000	0.0000000000	0.0000000000	N
		ID:552-70-5170							
5675	PRINCE MINERALS LTD 7001 PRESTON RD, STE 301 LB 35 DALLAS TX 75205	TX	RI	0.0031250000	0.0031250000	0.0000000000	0.0000000000	0.0000000000	N
		ID:75-2749788							
5677	PURNELL MORROW CO 4925 GREENVILLE AVE, STE 1116 DALLAS TX 75206	TX	RI	0.0001562500	0.0001562500	0.0000000000	0.0000000000	0.0000000000	N
		ID:75-1909098							
5688	C E & DOROTHEA RAWLINSON TR JOYCE RAWLINSON, TTEE 6/24/74 621 SW MORRISON ST, STE 437 PORTLAND OR 97205	OR	RI	0.0016226000	0.0016226000	0.0000000000	0.0000000000	0.0000000000	N
		ID:93-6094396							
5714	WILLIAM R ROBERTS 45 NE 47TH AVE PORTLAND OR 97213	OR	RI	0.0005006000	0.0005006000	0.0000000000	0.0000000000	0.0000000000	N
		ID:543-03-0421							
5716	JANET ROBINSON 24 OGDEN ST JEKYLL ISLAND GA 31527	GA	RI	0.0020089500	0.0020089500	0.0000000000	0.0000000000	0.0000000000	N
		ID:275-24-1609							
5731	SABINE ROYALTY TRUST BANK OF AMERICA NA, TTEE LBX #840887 DALLAS TX 75284-0887	TX	RI	0.0044294500	0.0044294500	0.0000000000	0.0000000000	0.0000000000	N
		ID:75-6297143							
5733	SALVATION ARMY LEGAL SECRETARY 120 W 14TH ST NEW YORK NY 10011	NY	RI	0.0000976500	0.0000976500	0.0000000000	0.0000000000	0.0000000000	N
		ID:135-56-2351							
5758	SCOPE EXPLORATION INC P O BOX 702571 TULSA OK 74170	OK	RI	0.0004882700	0.0004882700	0.0000000000	0.0000000000	0.0000000000	N
		ID:73-1235000							
15	SPINDLETOP EXPL CO., INC. P O BOX 50787 MIDLAND TX 79710	TX	RI	0.0002929500	0.0002929500	0.0000000000	0.0000000000	0.0000000000	N
		ID:75-1895956							
5834	JANE W STRICKLAND 3915 N NEW JERSEY-1 INDIANAPOLIS IN 46205	IN	RI	0.0000162800	0.0000162800	0.0000000000	0.0000000000	0.0000000000	N
		ID:554-54-4016							

1: 1536 BERTHA J BARBER #12 (ABO) State:NM Rev-Hold:NO
 4: 10 Deck:1 EffectiveDate:02/01/98 Name: Perm

Entity Code	Entity Name	ST	Rev. Hold	Memo Int. Type	Decimal Interest	Revenue Tax-Percentages				Auto Susp
						Rev-Tax #1	Rev-Tax #2	Rev-Tax #3	Rev-Tax #4	
5855	ALICE R TEDEEN C/O MARK H TEDEEN 36 BROMFIELD ST WATERTOWN	MA		RI	0.0019392000	0.0019392000	0.0000000000	0.0000000000	0.0000000000	N
	MA 02472-2144	ID:150-36-4885								
5882	MAURICE B TRACY 1516 BARCLAY PL SCHENECTADY	NY		RI	0.0003906000	0.0003906000	0.0000000000	0.0000000000	0.0000000000	Y
	NY 12309	ID:								
5885	TRITEX PRODUCTION CO 2882 SAND HILL RD, STE 117 MENLO PARK	CA		RI	0.0004687500	0.0004687500	0.0000000000	0.0000000000	0.0000000000	N
	CA 94025	ID:75-2562881								
5897	VAUGHN PETRO ROY PARTNERS,LTD A TX PARTNERSHIP 3738 OAK LAWN AVE, STE 101 DALLAS	TX		RI	0.0062500000	0.0062500000	0.0000000000	0.0000000000	0.0000000000	N
	TX 75219	ID:75-2544573								
5904	V W RESOURCES INC P O BOX 471249 TULSA	OK		RI	0.0001302000	0.0001302000	0.0000000000	0.0000000000	0.0000000000	N
	OK 74147	ID:73-1376039								
5941	WHITE STAR ENERGY INC P O BOX 51108 MIDLAND	TX		RI	0.0001953000	0.0001953000	0.0000000000	0.0000000000	0.0000000000	N
	TX 79710	ID:75-2438937								
5964	SHARON W WOODS 103 SMITH RD PORT MATILDA	PA		RI	0.0000040700	0.0000040700	0.0000000000	0.0000000000	0.0000000000	N
	PA 16870	ID:304-60-8306								
5969	CALEB WRIGHT 5270 ARREXXO ST PLEASANTON	CA		RI	0.0000040700	0.0000040700	0.0000000000	0.0000000000	0.0000000000	N
	CA 94566	ID:315-46-1163								
5970	DOUGLAS P WRIGHT 9807 WRANGLER DR SUN CITY	AZ		RI	0.0000162700	0.0000162700	0.0000000000	0.0000000000	0.0000000000	N
	AZ 85373	ID:348-18-6156								
5971	JOANNE M WRIGHT 15444 W ROCKLAND RD LIBERTYVILLE	IL		RI	0.0000162800	0.0000162800	0.0000000000	0.0000000000	0.0000000000	N
	IL 60048	ID:337-28-3217								
5986	BENNET BOTSFORD YOUNG, JR 15 N SHERIDAN RD LAKE FOREST	IL		RI	0.0001953000	0.0001953000	0.0000000000	0.0000000000	0.0000000000	N
	IL 60045	ID:348-18-6564								
5987	MONTGOMERY L YOUNG 170 EL CAMINO RD SEDONA	AZ		RI	0.0005859000	0.0005859000	0.0000000000	0.0000000000	0.0000000000	N
	AZ 86336	ID:520-22-8216								
6418	BARBARA JANE DEWELY 11006 OREGON CURVE BLOOMINGTON	NM Hold		RI	0.0009672300	0.0009672300	0.0000000000	0.0000000000	0.0000000000	N
	NM 55438	ID:396-44-7611								
6536	MICHAEL HERD MOORE 14850 OAKS NORTH PLACE DALLAS	TX		RI	0.0023717000	0.0023717000	0.0000000000	0.0000000000	0.0000000000	N
	TX 75240	ID:455-72-0603								
6540	REESE CLEVELAND TESTAMENTARY T THE CHASE MANHATTAN BANK TRUST P.O. BOX 10966 MIDLAND	TX		RI	0.0000244250	0.0000244250	0.0000000000	0.0000000000	0.0000000000	N
	TX 79702	ID:75-6334664								
6541	KATHY KIEL JOHNSON C/O COCKE,WILLFORD & EDDINGS, P.O. BOX 97517 WICHITA FALLS	TX		RI	0.0000122125	0.0000122125	0.0000000000	0.0000000000	0.0000000000	N
	TX 76307	ID:446-76-1200								

11: 1536 BERTHA J BARBER #12 (ABO) State:NM Rev-Hold:NO
 4: 10 Deck:1 EffectiveDate:02/01/98 Name: Perm

----- Participants -----										
Entity Code	Entity Name	ST Rev. Hold	Memo Int. Type	Decimal Interest	-----Revenue Tax-Percentages-----				Auto	
					Rev-Tax #1	Rev-Tax #2	Rev-Tax #3	Rev-Tax #4	Susp	
6542	OLIVER B KIEL, III P.O. BOX 1654 WIMBERLEY	TX	RI	0.0000122125	0.0000122125	0.0000000000	0.0000000000	0.0000000000		N
		TX 78676	ID:446-76-1199							

----- Deck Totals (81 Participants) -----										
Working Interests:				0.8750000000	0.8750000000	0.0000000000	0.0000000000	0.0000000000		
Royalty Interests:				0.1250000000	0.1250000000	0.0000000000	0.0000000000	0.0000000000		
Total Interests:				1.0000000000	1.0000000000	0.0000000000	0.0000000000	0.0000000000		

MONUMENT-TUBB POOL
Lea County, New Mexico

Order No. R-2800, Adopting Operating Rules for the Monument-Tubb Pool, Lea County, New Mexico, December 1, 1964, as Amended by Order No. R-10128, June 3, 1994.

Application of Continental Oil Company for
Special Pool Rules, Lea County, New Mexico.

CASE NO. 3123
Order No. R-2800

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 o'clock a.m. on October 13, 1964, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 10th day of November, 1964, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Continental Oil Company, seeks the promulgation of special rules and regulations for the Monument-Tubb Pool in Township 20 South, Range 37 East, NMPM, Lea County, New Mexico, including a provision for 80-acre spacing units and a gas-oil ratio of 6000 to 1.

(3) That one well in the Monument-Tubb Pool can efficiently and economically drain and develop 80 acres.

(4) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, special rules and regulations providing for 80-acre spacing units should be promulgated for the Monument-Tubb Pool.

(5) That a limiting gas-oil ratio of 6000 to 1 would be excessive for this pool and might result in waste.

(6) That the special rules and regulations should provide for a limiting gas-oil ratio of 4000 to 1 in order to allow each operator in the pool the opportunity to use his just and equitable share of the reservoir energy.

IT IS THEREFORE ORDERED:

That Special Rules and Regulations for the Monument-Tubb Pool are hereby promulgated as follows, effective December 1, 1964:

**SPECIAL RULES AND REGULATIONS
FOR THE
MONUMENT-TUBB POOL**

RULE 1. Each well completed or recompleted in the Monument-Tubb Pool or in the Tubb formation within one mile thereof, and not nearer to or within the limits of another designated Tubb oil pool, shall be spaced, drilled, operated, and

produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, E/2, or W/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well shall be located no nearer than 330 feet to any governmental quarter-quarter section or lot line.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (79 through 81 acres) shall be assigned an 80-acre proportional factor of 2.77 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80-acres.

RULE 7. (As Amended by Order No. R-10128, Effective June 3, 1994.) The limiting gas-oil ratio shall be 10,000 cubic feet of gas per barrel of oil produced.

IT IS FURTHER ORDERED:

(1) That any well presently drilling to or completed in the Monument-Tubb Pool or in the Tubb formation within one mile thereof that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of said rule. The operator shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before December 1, 1964.

(2) That each well presently drilling to or completed in the Monument-Tubb Pool or in the Tubb formation within one mile thereof shall receive a 40-acre allowable until a Form C-128 dedicating 80 acres to the well has been filed with the Commission.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

**BEFORE THE
OIL CONSERVATION COMMISSION**
Case No. 12605 Denovo Exhibit No. _____
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6 2001

SAWYER-SAN ANDRES GAS POOL
Lea County, New Mexico

Order No. R-1517, October 30, 1959, Reclassifying as Gas Pool, as Amended by Order No. R-1652, April 19, 1960; Order No. R-166, September 1, 1962; Order No. R-2485, June 1, 1963; Order No. R-2569, October 1, 1963; Order No. R-2879, April 1, 1965; Order No. R-3014, January 1, 1966; Order No. R-3455, August 1, 1968; Order No. R-4258, March 1, 1972; Order No. R-499, April 1, 1973; Order No. R-4809, July 1, 1974; Order No. R-4915, December 1, 1974; Order No. R-4995, May 1, 1975; Order No. R-5309, November 1, 1976.

-9-S, R-37-E SW/4, E/2 Sec. 13; NE/4 Sec. 23; W/2 Sec. E/2 Sec. 25.
-9-S, R-38-E Lots 3, 4, W/2 SW/4 Sec. 9; W/2 Sec. 16; Secs. 18, 19, 20; W/2 Sec. 21; S/2, NW/4 Sec. 28; Secs. 29, 30; Sec. 31; Secs. 32, 33.
-10-S, R-38-E NW/4 Sec. 4; N/2 Sec. 5; NE/4 Sec. 6.

BAISH-ABO POOL
Lea County, New Mexico

Order No. R-1532, November 23, 1959, Establishing Pool.
Pool abolished by Order No. R-1572, January 18, 1960.

MONUMENT-TUBB POOL
(Formerly Monument Tubb-Drinkard Pool)
Lea County, New Mexico

Order No. R-1532, November 23, 1959, Establishing Pool, as amended by Order No. R-1720, July 15, 1960; Order No. R-1720, January 1, 1963; Order No. R-2427, March 1, 1963; Order No. R-2527, August 1, 1963; Order No. R-2602, December 1, 1963; Order No. R-2692, May 1, 1964; Order No. R-2781, November 1, 1964; Order No. R-2879, April 1, 1965; Order No. R-2879, July 1, 1965; Order No. R-2985, November 1, 1965; Order No. R-3051, April 1, 1966; Order No. R-3104, September 1, 1966; Order No. R-3182, February 1, 1967; Order No. R-4734, March 1, 1974; Order No. R-5911, February 1, 1979; Order No. R-5987, May 1, 1979; Order No. R-6211, January 1, 1980; Order No. R-7248, April 1, 1983; Order No. R-8826, January 1, 1989; Order No. R-8946, July 1, 1989; Order No. R-9447, March 1, 1991; Order No. R-10177, September 1, 1994; Order No. R-1042, May 1, 1995; Order No. R-10556, March 1, 1996; Order No. R-10641, September 1, 1996; Order No. R-10972, May 1, 1998; Order No. R-11116, January 1, 1999; Order No. R-11243, October 1, 1999.

-19-S, R-37-E S/2 Sec. 34; SW/4 Sec. 35.
-20-S, R-37-E W/2, SE/4 Sec. 2; Sec. 3; SE/4 Sec. 5; Sec. 8; E/2, SW/4 Sec. 9; Secs. 10, 11, 12, N/2 Sec. 13; W/2 SW/4 Sec. 14; SE/4, NE/4 Sec. 15; E/2, NW/4 Sec. NE/4 Sec. 20; N/2 Sec. 21; N/2 Sec. 22; W/2 Sec. 23.
-20-S, R-38-E S/2 Sec. 6; N/2, SW/4 Sec. 7.

CANYON-WOLFCAMP POOL
Eddy County, New Mexico

Order No. R-1532, November 23, 1959, Establishing Pool.
-19-S, R-24-E NW/4 Sec. 36.

BELL LAKE-PENNSYLVANIAN GAS POOL
Lea County, New Mexico

Order No. R-569, January 13, 1955, Establishing Pool, as Amended by Order No. R-2062, October 1, 1961; Order No. R-4635, October 1, 1973.
Pool abolished by Order No. R-4821, August 1, 1974.

BLACK RIVER POOL
(DELAWARE)
Eddy County, New Mexico

Order No. 850, January 1, 1950, Redefining Pool, as Amended by Order No. R-71, April 30, 1951; Order No. R-10962, March 1, 1998; Order No. R-11005, August 1, 1998; Order No. R-11244, October 1, 1999.

T-24-S, R-26-E E/2, NW/4 Sec. 10; S/2 Sec. 11; SW/4 Sec. 12; W/2 Sec. 13; E/2 Sec. 14; N/2 Sec. 15; NE/4 Sec. 23; NW/4 Sec. 24.

SAND SPRINGS-DEVONIAN POOL
Lea County, New Mexico

Order No. R-1129, February 20, 1958, Establishing Pool, as Amended by Order No. R-2201, April 1, 1962; Order No. R-2705, June 1, 1964; Order No. R-5781, September 1, 1978.

T-11-S, R-34-E SW/4 Sec. 1; SE/4 Sec. 2; NE/4 Sec. 11; NW/4 Sec. 12.

DARK CANYON POOL
(DELAWARE)
Eddy County, New Mexico

Order No. R-219, December 4, 1952, Establishing Pool.
T-23-S, R-26-E S/2 Sec. 22.

BANDANA POINT-PENNSYLVANIAN GAS POOL
Eddy County, New Mexico

Order No. R-1559, December 18, 1959, Establishing Pool.
T-23-S, R-23-E SE/4 Sec. 13.

BUFFALO-PENNSYLVANIAN GAS POOL
Lea County, New Mexico

Order No. R-1559, December 18, 1959, Establishing Pool, as Amended by Order No. R-2620, January 1, 1964; Order No. R-5781, September 1, 1978; Order No. R-6033, July 1, 1979; Order No. R-6449, September 1, 1980; Order No. R-6476, October 1, 1980; Order No. R-6967, May 1, 1982; Order No. R-7114, November 1, 1982.

T-19-S, R-32-E S/2 Sec. 1; S/2 Sec. 12.
T-19-S, R-33-E N/2 Sec. 4; Secs. 5 through 9; N/2 Sec. 18.

CULWIN-YATES POOL
Eddy County, New Mexico

Order No. R-1559, December 18, 1959, Establishing Pool, as Amended by Order No. R-1857, February 1, 1961.
Pool abolished by Order No. R-2128, November 29, 1961.

Monument

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:

CASE NO. 12321
Order No R-11304

THE APPLICATION OF THE OIL CONSERVATION
DIVISION FOR AN ORDER CREATING AND
EXTENDING CERTAIN POOLS IN LEA COUNTY,
NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on January 6, 2000, in Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 12th day of January, 2000, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner,

FINDS THAT:

(1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter

(2) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Upper Silurian formation, bearing the designation of North Fowler-Upper Silurian Pool. The North Fowler-Upper Silurian Pool was discovered by the Altura Energy Ltd. South Matrix Unit Federal Well No. 24 located in Unit O of Section 15, Township 24 South, Range 37 East, NMPM, which was completed in the Upper Silurian formation on June 18, 1999. The top of the perforations is at 7,118 feet.

(3) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Abo formation, bearing the designation of Southwest Lovington-Abo Pool. The Southwest Lovington-Abo Pool was discovered by the David H. Arrington Oil & Gas Inc. Brassie Well No. 1 located in Unit I of Section 33, Township 16 South, Range 36 East, NMPM, which was completed in the Abo formation on July 25, 1999. The top of the perforations is at 8,891 feet.

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. __
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

Case No. 12321
Order No. R-11304
-2-

(4) There is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the McKee formation, bearing the designation of Maljamar-McKee Gas Pool. The Maljamar-McKee Gas Pool was discovered by the Mack Energy Corporation MC Federal Well No. 1 located in Unit E of Section 22, Township 17 South, Range 32 East, NMPM, which was completed in the McKee formation on October 15, 1999. The top of the perforations is at 14,805 feet.

(5) There is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the Drinkard formation, bearing the designation of North Monument-Drinkard Gas Pool. The North Monument-Drinkard Gas Pool was discovered by the Chevron USA, Inc. Monument 13 State Well No. 17 located in Unit F of Section 13, Township 19 South, Range 36 East, NMPM, which was completed in the Drinkard formation on June 30, 1999. The top of the perforations is at 6,696 feet.

(6) There is need for the creation of a new pool in Lea County, New Mexico, for the production of gas from the Tubb formation, bearing the designation of West Monument-Tubb Gas Pool. The West Monument-Tubb Gas Pool was discovered by the Cross Timbers Operating Company Bertha J. Barber Well No. 12 located in Unit A of Section 7, Township 20 South, Range 37 East, NMPM, which was completed in the Tubb formation on August 21, 1999. The top of the perforations is at 6,364 feet.

(7) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the San Andres formation, bearing the designation of West Nadine-San Andres Pool. The West Nadine-San Andres Pool was discovered by the Capataz Operating Inc. Keach Well No. 1 located in Unit O of Section 4, Township 20 South, Range 38 East, NMPM, which was completed in the San Andres formation on April 22, 1999. The top of the perforations is at 4,224 feet.

(8) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Yates formation, bearing the designation of North Nadine-Yates Pool. The North Nadine-Yates Pool was discovered by the Xeric Oil and Gas Corporation Cain Well No. 2 located in Unit N of Section 14, Township 19 South, Range 38 East, NMPM, which was completed in the Yates formation on May 29, 1999. The top of the perforations is at 2,937 feet.

(9) There is need for the creation of a new pool in Lea County, New Mexico, for the production of oil from the Wolfcamp formation, bearing the designation of North Teague-Wolfcamp Pool. The North Teague-Wolfcamp Pool was discovered by the Texaco Exploration and Production Inc. R. R. Sims A Well No. 1 located in Unit N of Section 4, Township 23 South, Range 37 East, NMPM, which was completed in the Wolfcamp formation on May 18, 1999. The top of the perforations is at 7,246 feet.

(10) There is need for certain extensions to the Antelope Ridge-Atoka Gas Pool, the Antelope Ridge-Strawn Gas Pool, the South Big Dog-Strawn Pool, the Blinberry Oil and Gas Pool, the South Corbin-Bone Spring Pool, the DK-Abo Pool,

Case No. 12321
Order No. R-11504
-3-

the EK-Delaware Pool, the Southwest Eunice-San Andres Pool, the Gem-Morrow Gas Pool, the Goodwin-Abo Pool, the Grama Ridge-Morrow Gas Pool, the North Hardy-Strawn Pool, the High Plains-Permo Upper Pennsylvanian Pool, the House-Drinkard Pool, the Johnson Ranch-Wolfcamp Gas Pool, the Klein Ranch-Morrow Gas Pool, the West Lovington-Strawn Pool, the West Midway-Upper Pennsylvanian Pool, the Teas-Delaware Pool, the North Vacuum-Atoka-Morrow Gas Pool, and the West Wantz-Abo Pool, all in Lea County, New Mexico.

IT IS THEREFORE ORDERED THAT:

(a) A new pool in Lea County, New Mexico, classified as an oil pool for Upper Silurian production is hereby created and designated as the North Fowler-Upper Silurian Pool, consisting of the following described area:

TOWNSHIP 24 SOUTH RANGE 37 EAST, NMPM

Section 15: SE/4

(b) A new pool in Lea County, New Mexico, classified as an oil pool for Abo production is hereby created and designated as the Southwest Lovington-Abo Pool, consisting of the following described area:

TOWNSHIP 16 SOUTH RANGE 36 EAST, NMPM

Section 33: SE/4

(c) A new pool in Lea County, New Mexico, classified as a gas pool for McKee production is hereby created and designated as the Maljamar-McKee Gas Pool, consisting of the following described area:

TOWNSHIP 17 SOUTH, RANGE 32 EAST, NMPM

Section 22 W/2

(d) A new pool in Lea County, New Mexico, classified as a gas pool for Drinkard production is hereby created and designated as the North Monument-Drinkard Gas Pool, consisting of the following described area.

TOWNSHIP 19 SOUTH, RANGE 36 EAST, NMPM

Section 13: NW/4

(c) A new pool in Lea County, New Mexico, classified as a gas pool for Tubb production is hereby created and designated as the West Monument-Tubb Gas Pool, consisting of the following described area:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM

Section 7: E/2

(f) A new pool in Lea County, New Mexico, classified as an oil pool for San Andres production is hereby created and designated as the West Nadine-San Andres Pool, consisting of the following described area.

Case No. 12321
Order No. R-11304
-7-

(aa) The Teas-Delaware Pool in Lea County, New Mexico, is hereby extended to include:

TOWNSHIP 20 SOUTH, RANGE 33 EAST, NMPM
Section 2: SW/4
Section 3: SE/4

(bb) The North Vacuum-Atoka-Morrow Gas Pool in Lea County, New Mexico, is hereby extended to include:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM
Section 19: E/2
Section 20: NW/4

(cc) The West Wantz-Abo Pool in Lea County, New Mexico, is hereby extended to include:

TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM
Section 30: N/2 and SW/4

IT IS FURTHER ORDERED THAT:

(1) Pursuant to Section 70-2-18, NMSA, 1978, an operator of any well that, by virtue of any of the above pool extensions, is subject to pool rules providing for spacing or proration units larger than the one presently dedicated thereto, shall have 60 days from the effective date of this order to file Form C-102 dedicating a standard unit for the pool to that well or to obtain a non-standard unit approved by the Division. Pending such compliance, the well shall receive a maximum allowable in the same proportion to a standard allowable for the pool that the acreage dedicated to the well bears to a standard unit for the pool. Failure to file Form C-102 dedicating a standard unit to the well or to obtain a non-standard unit approved by the Division within that 60-day period shall subject the well to cancellation of allowable.

(2) The effective date of this order and all creations and extensions included herein shall be February 1, 2000.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY
Director

SEAL

**SAPIENT ENERGY CORP.'S
ANNOTATED LIST OF PETROLEUM ENGINEERING EXHIBITS**

Exhibit 13:

Table of oil and gas production history for Barber 12 Well

Exhibit 14:

Reservoir Data Sheet which shows the values used for calculations

Exhibit 15:

Isopach Map

Exhibit 16:

Volumetric Calculation

Exhibit 17:

7 day shut-in bottom hole pressure data

Exhibit 18:

Material Balance Calculation

Exhibit 19:

BHP/Z vs Cum Production Graph

Exhibit 20:

EUR decline Calculation

Exhibit 21:

Drainage Area Calculation

SAPIENT ENERGY CORP
 BERTHA BARBER #12 (TUBB)
 PRODUCTION HISTORY
 8/99-CURRENT

	GAS VOLUME MONTH MCF @ 15.025	OIL VOLUME BBL
Recompleted to Tubb in August, 1999		
Aug-99	8226	0
Sep-99	15712	21
Oct-99	14774	27
Nov-99	12213	29
Dec-99	13214	45
Jan-00	42736	155
Feb-00	36055	95
Mar-00	44109	88
Crosstimbers Subtotal	187,039	460

fracked but choked

Sold to Falcon Creek which Merged with Sapient Energy

Apr-00	43478	26
May-00	43478	26
Jun-00	40186	18
Jul-00	34256	14
Aug-00	35979	0
Sep-00	41545	0
Oct-00	40236	0
Nov-00	38680	0
Dec-00	38925	0
Jan-01	37358	0
Feb-01	31987	20
Mar-01	31873	34
Apr-01	31590	17
May-01	29132	33
Jun-01	25324	24
Jul-01	25460	
Aug-01	19645	
Sep-01	17768	
Oct-01 *	14500	
Sapient Subtotal	621,400	212
Tubb Totals	808,439	672

- merger w/ Sapient
clean separator opened choked
Peak, begins decline

* Oct-01 gas estimated

Reservoir Data Sheet
Sapient Energy Corp
Barber # 12

Reservoir Data:

BHPi	2597
Z	0.7837
BHPi/Z	3314
BHP @ 10/24/01	1235
Z	0.8362
BHP/Z @ 10/24/01	1477
Cum @ 10/24/01	808
BHP/Z abd	300
Porosity (Avg)	0.122
Rw	0.045
Sw (Avg)	0.27
h (thickness)	30
phi-h	3.66
Temp (reservoir)	98
Gas grav	0.68
Liq grav	37.1

Planimetered Volumes:

- E/2 of NE/4 80 acres	2706	acre-ft
- W/2 of NE/4 80 acres	1997	acre-ft
- Total NE/4 160 acres	4703	acre-ft

Calculated Values:

GIP mat bal	1458	mmcf
Est Ult Recovery - mat bal	1326	mmcf
Orig Gas In Place - pore vol	815.1	mcf/acre-ft
Recov GIP - pore vol	741.3	mcf/acre-ft
Drainage Area (h = 30')	60	acres
Est Ult Recovery - decline	1315	mmcf

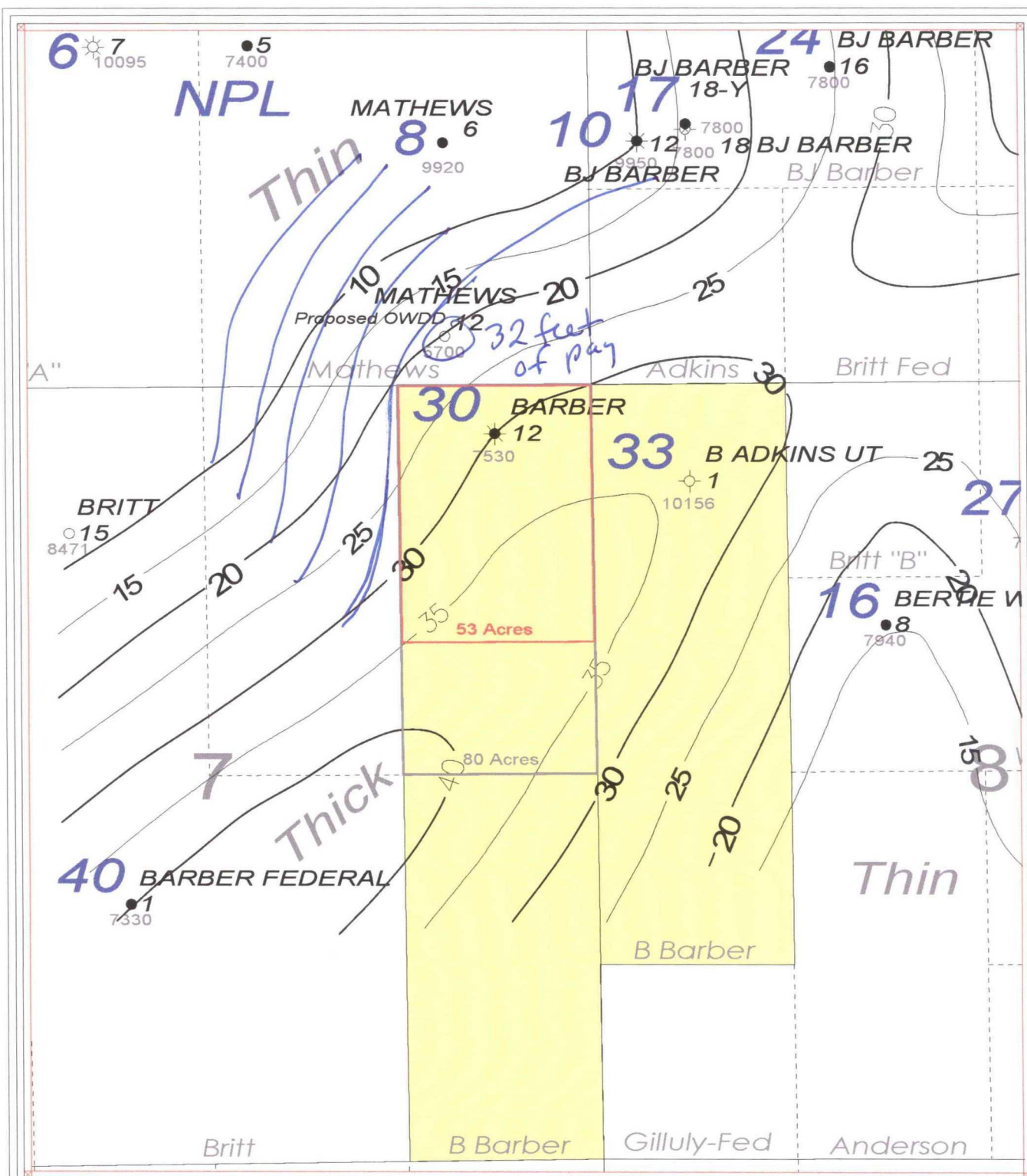
Volumetric Data:

- OGIP E/2 of NE/4 80 acres	2206	mmcf
- OGIP W/2 of NE/4 80 acres	1628	mmcf
- OGIP Total NE/4 160 acres	3834	mmcf ✓
- % of E/2 of NE/4 well will drain	66%	
- % of NE/4 well will drain	38%	
- Drainage Area (66% of 80 acres)	53	acres

Units

psia - 6 drill stem tests
ex. 31-6
psia - actual
psia abandonment
12.2% porosity (Conoco 6.6)
ohm-m
water saturation 27%
ft
deg F (neuron-103)
deg API - oil, not condensate

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 14
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001



BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 15
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

Sapient Energy Corp.

Monument Area, Lea Co., NM
Isopach: Net Tubb Porosity
Barber #12 Drainage Calculation

RW Von Rhee

CI: 5 ft.

10/30/01

1ktbpor2.gpf

Scale 1:12000.

1"=1000'

Volumetric Calculations

Sapient Energy Corp

Barber # 12

Assumptions:

A = ??? acres
h avg = 30 feet
Porosity = 0.122
Sw = 0.27
Pi = 2597 psia
Zi = 0.7837
P/Zi = 3314
P/Z abd = 300
RF = 0.9095
T = 558 deg R

Calculations:

Original Recoverable Gas In Place =

$$1541 \times 0.122 \times (1 - 0.27) \times 3314 \times 0.9095 / 558 \\ = 741.3 \text{ MCF/acre-ft}$$

$$\text{Original Gas In Place} = 1541 \times 0.122 \times (1 - 0.27) \times 3314 / 558 \\ = 815.1 \text{ MCF/acre-ft}$$

Planimetered Volumes:

E/2 of NE/4 of Sec 7 (Sapient's 80 Acres) = 2706 acre-ft

W/2 of NE/4 of Sec 7 (Conoco, et al 80 Acres) = 1997 acre-ft

Total NE/4 of Sec 7 = 4703 acre-ft

Planimetered Gas In Place:

E/2 of NE/4 of Sec 7 (Sapient's 80 acres) =

$$2706 \text{ acre-ft} \times 815.1 \text{ MCF/acre-ft} = \underline{\underline{2206 \text{ MMCF}}}$$

W/2 of NE/4 of Sec 7 (Conoco, et al 80 acres) =

$$1997 \text{ acre-ft} \times 815.1 \text{ MCF/acre-ft} = \underline{\underline{1628 \text{ MMCF}}}$$

Total NE/4 of Sec 7 = 3834 MMCF

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 16
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

Bertha Barber 12 Measured Bottom Hole Pressure Test

Pg 1 of 2

Well: Bertha Barber 12
Company: Sapient Energy Corp.

Run Depth: 6262'
Start Date: 2001-Oct-22
End Date: 2001-Oct-24

Date	Cum Hour	Pres psia	Comments
10/22/01			SITP = 1020 psig
10/22/01	4.9417	1217.62	On bottom w/ gauge @ 6262'
10/22/01	5.3000	1217.59	Made gradient stops - no evidence
10/22/01	5.4000	1217.72	of fluid in hole
10/22/01	5.5000	1217.78	
10/22/01	5.6000	1217.74	
10/22/01	5.7000	1217.82	
10/22/01	5.8000	1217.94	
10/22/01	5.9000	1217.88	
10/22/01	6.0000	1217.93	
10/22/01	6.4000	1218.04	
10/22/01			Off location
10/22/01	6.6000	1218.24	
10/22/01	6.8000	1218.19	
10/22/01	7.0000	1218.31	
10/22/01	7.2000	1218.4	
10/22/01	7.5083	1218.54	
10/22/01	7.7583	1218.63	
10/22/01	8.0250	1218.63	
10/22/01	8.5250	1218.97	
10/22/01	9.0083	1219.07	
10/22/01	9.5083	1219.34	
10/22/01	10.0083	1219.48	
10/22/01	11.0333	1219.9	
10/23/01	12.0167	1220.17	
10/23/01	13.0667	1220.62	
10/23/01	14.0583	1220.98	
10/23/01	15.0500	1221.35	
10/23/01	16.0333	1221.71	
10/23/01	17.1000	1222.15	
10/23/01	18.1167	1222.47	
10/23/01	19.0667	1222.69	
10/23/01	20.0750	1223.12	
10/23/01	20.9667	1223.43	SITP = 1020 psig
10/23/01	22.1167	1223.83	
10/23/01	23.1333	1224.24	
10/23/01	24.2167	1224.51	
10/23/01	26.0750	1225.08	
10/23/01	28.1083	1225.79	
10/23/01	30.0583	1226.36	
10/23/01	32.1667	1226.97	
10/23/01	34.1083	1227.63	
10/24/01	36.2000	1228.42	
10/24/01	38.0500	1228.94	
10/24/01	40.0167	1229.5	
10/24/01	42.0917	1230.05	

ILLEGIBLE

BEFORE THE
OIL CONSERVATION COMMISSION
Case No. 12605 Denovo Exhibit No. 17
Submitted By: Sapient Energy Corp.
Hearing Date: November 6, 2001

Bertha Barber 12 Measured Bottom Hole Pressure Test

Pg 2 of 2

Well: Bertha Barber 12
Company: Sapient Energy Corp.

Run Depth: 6262'
Start Date: 2001-Oct-22
End Date: 2001-Oct-24

Date	Cum Hour	Pres psia	Comments
10/24/01	44.7500	1230.8	SITP = 1030 psig
10/24/01			On location
10/24/01	45.2083	1231.1	
10/24/01	45.6750	1231.13	
10/24/01	46.1417	1231.3	
10/24/01	46.1500	1231.17	
10/24/01			Off location
10/26/01			SITP = 1040 psi
10/27/01			SITP = 1040 psi
10/28/01			SITP = 1040 psi
10/29/01			SITP = 1040 psi

Material Balance Calculations

Sapient Energy Corp

Barber # 12

Assumptions:

Initial BHP = 2597 psia
Initial Z factor = 0.7837
Initial P/Z = 3314 psia
10-24-01 BHP = 1231 psia @ 6262'
10-24-01 BHP = 1235 psia @ 6400'
10-24-01 Z factor = 0.8362
10-24-01 BHP/Z = 1477 psia
Cum Production as of 10-24-01 = 808 MMCF
Original Gas In Place = 815 MCF/acre-ft
Original Recoverable Gas In Place = 741 MCF/acre-ft
Thickness = 30'
Abandonment BHP/Z = 300 psia

Calculations:

Slope = $808 \text{ MMCF} / (3314 \text{ psi} - 1477 \text{ psi}) = 0.440 \text{ MMCF/psi}$

Est Ultimate Recovery = $(3314 \text{ psi} - 300 \text{ psi}) \times 0.440 \text{ MMCF/psi}$
= 1326 MMCF

Est Original Gas In Place = $3314 \text{ psi} \times 0.440 \text{ MMCF/psi}$
= 1458 MMCF that this well is draining

Note: This well is only draining 66% of the 80 acres in the E/2 of NE/4
i.e. $1458 \text{ MMCF} / 2206 \text{ MMCF (planimetered volume)} = 0.66$
Drainage Area = $0.66 \times 80 \text{ acres} = 53 \text{ Acres}$

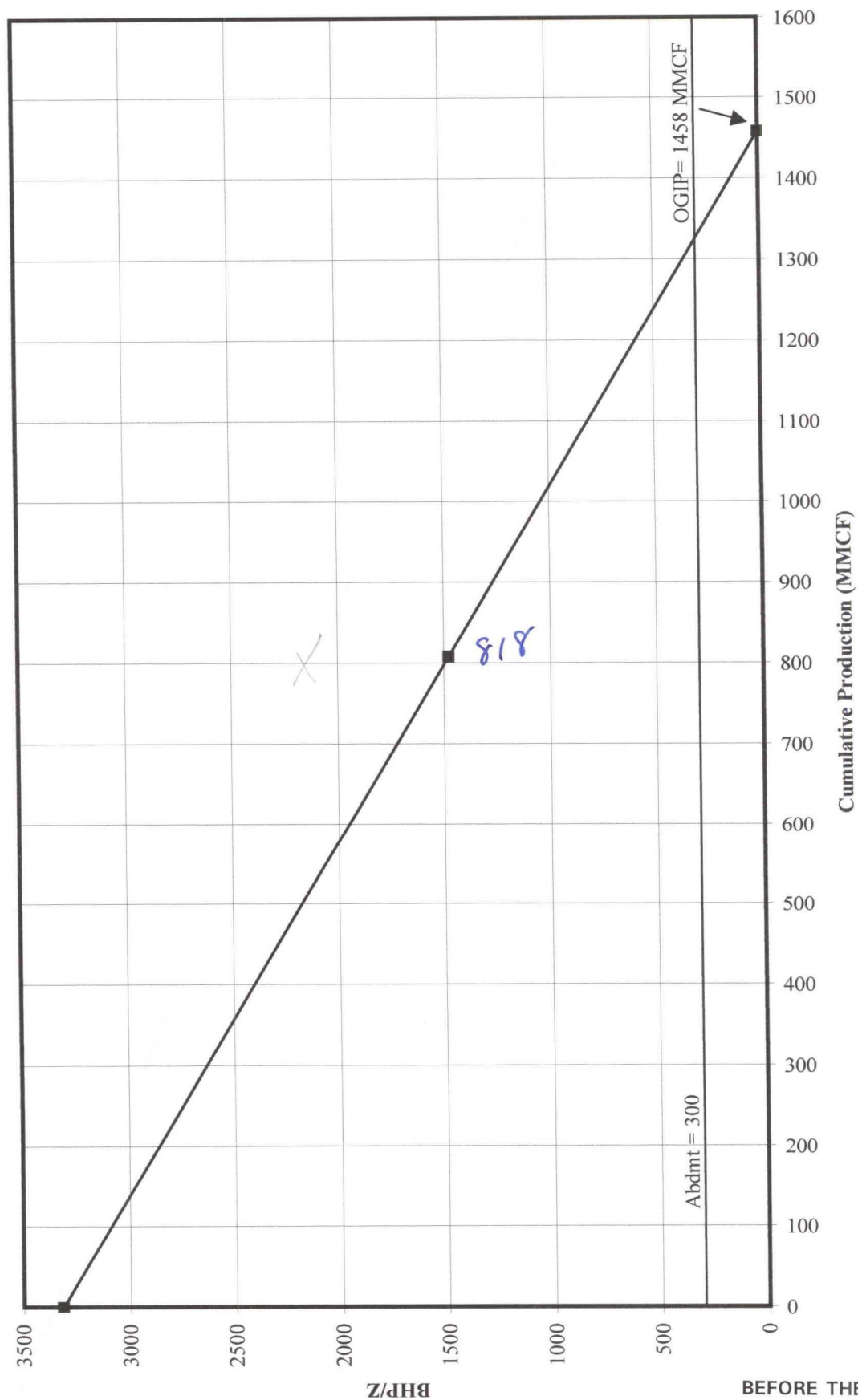
Drainage Area Assuming a Constant Thickness =
 $1458 \text{ MMCF} / 30 \text{ ft} / 0.815 \text{ MMCF/acre-ft}$
= 60 Acres

BEFORE THE
OIL CONSERVATION COMMISSION
Case No.12605 Denovo Exhibit No.
Submitted By:
Sapient Energy Corp.
Hearing Date: November 6, 2001

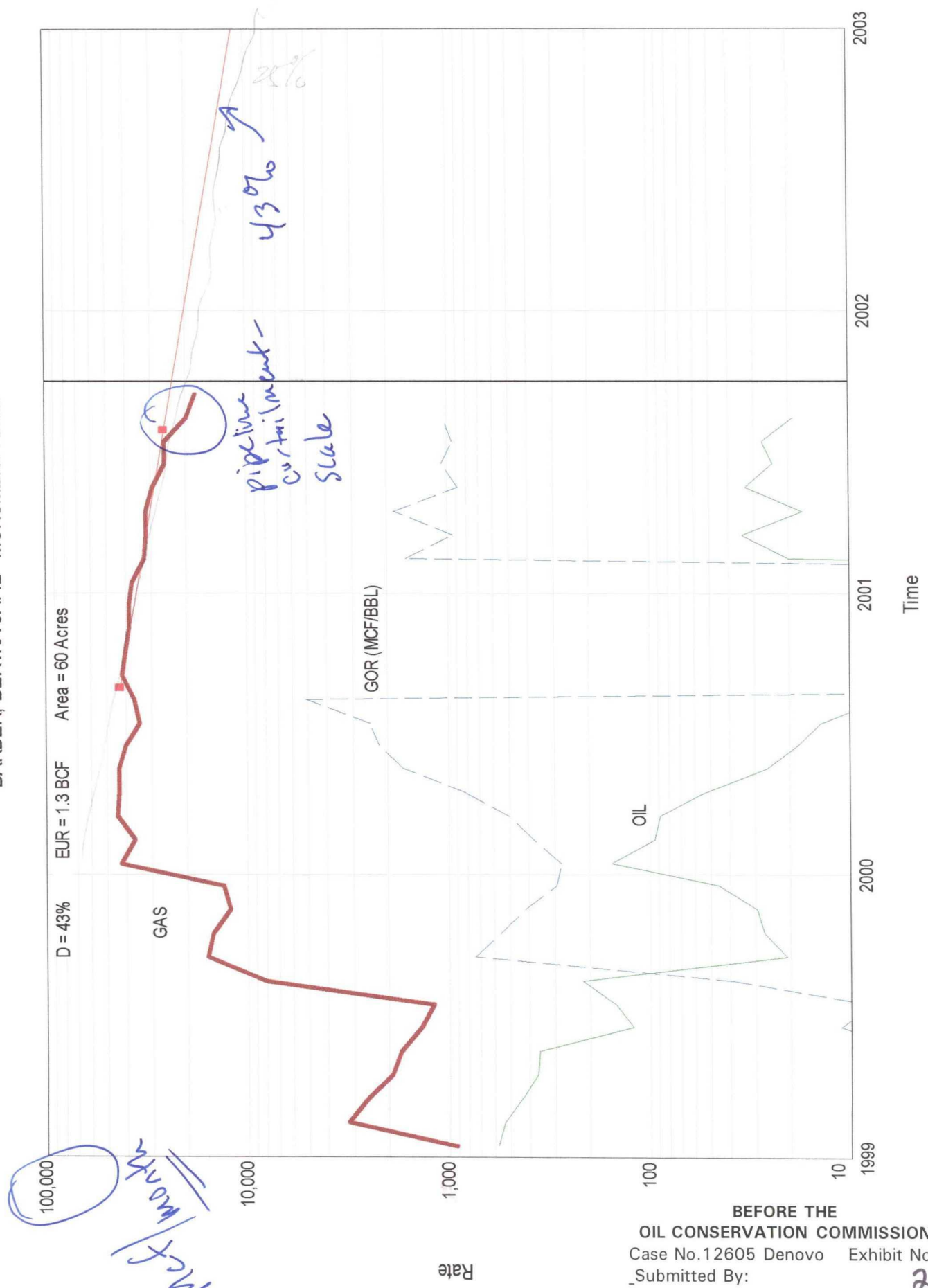
18

Barber, Bertha #12

BHP/Z vs. Cumulative Production



BARBER, BERTHA J. #12 - MONUMENT FIELD



Decline Analysis
Sapient Energy Corp
Barber # 12

Assumptions:

Cumulative Production thru 10/24/01 = 808 MMCF

Current Producing Rate = 800 MCFD

Economic Limit = 20 MCFD (when gas below \$3 mcf)

Decline Rate = 43 %

$a = -\ln(1 - d) = 0.562$

Original Recoverable Gas In Place = 741.3 MCF/acre-ft

Thickness = 30'

Calculations:

Remaining Recoverable Reserves =

$$(800 - 20) / .562 \times 365 = 507 \text{ MMCF}$$

Estimated Ultimate Recovery = 808 MMCF + 507 MMCF = 1315 MMCF

Drainage Area = 1315 MMCF / 30 ft / .7413 MCF/acre-ft = 59 acres

1.3 bcf
agrees w/
ex. 18, material
balance

ANNOTATED LIST OF GEOLOGIC EXHIBITS

Exhibit 22:

Structure Map, Monument Tubb Pool: This is a structure map on the top of the Lower Tubb Limestone. Note the distribution of Tubb completions shown in brown dots (legend). Note the local high areas on the map. This map is the “before” picture.

Exhibit 23:

Structure Map, Monument Tubb Pool with GAS AREAS: Here’s the “after” picture. Same map as before but the 15 wells with cumulative GOR’s in excess of 100,000 are grouped within red-shaded areas. Also shown is the cumulative production and GOR for each area. It is very clear that Tubb production has been gas on the structurally high areas of Monument Tubb oil pool.

Exhibit 24:

Table of /Gas Wells in Monument Tubb : The list as calculated from the PI/Dwights data for the C-116 filings. Note that all of the active wells have a produced GOR in excess of 100.00 over the past 12 months.

Exhibit 25:

Table of Gas/Liquid production for the three geographic areas. This shows the distribution of the production, and GOR’s. Note that 19.7 BCF of gas has been produced from the Weir area which equals no more than 640 acres. (9 wells in 640 acres is de-facto 71 acre spacing!).

Exhibit 26:

GOR vs. Structure, Monument Tubb Oil Pool: Here’s the relationship for all the wells in Monument Tubb for which we had both GOR and a structural point on the top of the Lower Tubb limestone. Looks like a broad relationship of higher GOR with higher structural position.

Exhibit 27:

Structure Map: Map on the top of the Lower Tubb Limestone. This horizon was selected because it is 1) located within the perped interval, 2) a high-confidence pick, and 3) regionally extensive to be mapped over a wide area.

Exhibit 28:

Isopach Map: Map of the Net Tubb Porosity greater than 4% limestone units. Data is confined to the producing interval as developed in the Barber #12.

Lithology: Refer to Barber #12 mudlog (Exhibit 29d) and lithodensity log (Exhibit 29a), and other wells with lithodensity logs. Tubb lithology is mixed, consisting of beds of Dolomite, Limestone, Sandstone, and mixtures of all of these. Thus picking one porosity cut-off value is therefore difficult. However it is necessary in order to interpret the porosity of different vintage and types of logs with a logical and uniform method.

An empirical analysis was made of three wells near the Barber #12 (Exhibit 28)

Exhibit 29:

Stratigraphic Cross-Section A-A': Cross section demonstrates the geologic correlations between the Barber #12, and offsetting wells to the north and northeast. This direction was chosen because it contains the most offsetting Tubb production. The cross-section demonstrates 1) the geologic continuity of the Tubb beds, but also 2) the discontinuity of discrete porosity intervals. I noted the lateral development of distinctly new beds within this framework as one moves east into the Monument Tubb field proper (sec 9).

Exhibit 30:

Porosity Cut-off Plat: Map locates the key wells used to develop an empirical porosity cut-off for the Tubb. Results:

Net porosity >4% LS units on Density logs for both limestone and dolomite.

Net porosity >52ms in limestone beds, and >58.5ms in dolomite beds.

Mathews #6: 1961 Sonic Log. According to Chevron, "...production testing resulted in no fluid entry...". Therefore the rocks are too tight to produce. LS porosity is 3.11%. Dolomite porosity is 9.3%. The Tubb must have porosity greater than these levels to yield commercial fluids from the respective lithologies.

Anderson #4: 1976 Neutron/Density & Sonic Log. According to the scout ticket. No commercial fluid entry through dolomite perfs. Density porosity <4%LS. Commercial fluid entry obtained through overlying perfs in dolomite and limestone. Limestone porosity >4%, max 8%. Dolomite porosity >10%, max 12.6%. Comparison of Density and Sonic yielded nearly identical net porosity interpretations across both lithologies using a 4% limestone cut-off. This is equivalent to a 10.3% dolomite cut-off. On Sonic logs, the cut-offs would be 52 and 58.5 microseconds respectively.

Conclude that commercial fluids recoverable if limestone porosity exceeds 4% or dolomite porosity exceeds 10%.

Anderson #10: 1996 Neutron/Density & Sonic Log. Visual inspection of both logs established a net porosity equivalence using a 4% limestone cut-off.