

# PROJECT PROCESSING SHEET

PIF ID: 00007123      7/16/98

Area Team: <b>02</b>	Wellname: <b>BROOKHAVEN COM 8</b>		
SubTeam: <b>BOT</b>	Location: <b>36-027N-008W</b>		
	Operator: <b>BR OIL &amp; GAS CO</b>	Budget Type: <b>Discretionary</b>	
	Procedure: <b>NewDrill</b>	Budget Year: <b>1998</b>	

Formation	DP	Property	AFE Type	AFE Net (\$)
Chacra		0125828000	01, Capital New Drill	97,524
Mesaverde		071603200	01, Capital New Drill	150,712
<b>Total Net Amount (\$)</b>				<b>248,236</b>

Approval Level: Regional Team Leader

ROBERTS, N. <i>NRoberts</i> Reservoir Engineer	PIPPIN, M. <i>M Pippin</i> 7/17/98 Production Engineer	WHITE, L. <i>LC White</i> 7/17/98 Drilling Engineer
CHRISTIANSEN, G. Geologist <i>G Christian</i>	ELLIS, J. <i>J Ellis</i> 7/24/98 Foreman	PRICE, D. Nichol S. <i>Shannon Nichol</i> Landman 7-17-98

Area Team Leader Associate

Initial/Date

Copies for Review

Regional or Superintendent

*[Signature]* 7/20/98  
Initial/Date

Review/Approve AFE

\*\*\*\* Original to PIF Coordinator for Processing \*\*\*\*

✓ 7/28/98

~~PRICE, D.~~  
NICHOLS, S.

Initial/Date

Clearance Process/Release

~~GARRISON, D.~~  
C. JIM

Initial/Date

Logout from Land

**ORIGINAL PACKET**  
(For Original Well File)

Peggy Bradfield, Types 01, 05, 14, 18

**COPIES:**

Area Team Leader Associate - 3 Copies  
 Mae Benallyson - Accounting  
 Land Base Well File (All Packages)

Entire Packet for Area File  
 Packet Cover, Memo., AFE w/detail, LWR  
 Packet cover, Memo., AFE w/detail, LWR

BEFORE THE  
**OIL CONSERVATION DIVISION**  
 Case No. 12276 & 12277 Exhibit No. 7  
 Submitted By:  
*Burlington Resources*  
 Hearing Date: January 20, 2000

**TO:** Area 12 Team

**FROM:** N. Roberts/G. Christiansen

**DATE:** July 16, 1998

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**RE:** Brookhaven Com #8  
1998 Discretionary Chacra/Mesaverde New Drill  
NW/4 Sec. 36 T27N-R08W  
San Juan Co., NM

Recommendation

Approve AFE to drill and equip the Brookhaven Com #8 as a dually completed Chacra/Mesaverde producer. This well is proposed to develop 1.13 bcf and 4.5 mbo gross additional reserves for a cost of \$428M, or \$0.38/mcf. Net anticipated reserve adds and investments are 0.554 bcf, 2.4 mbo and \$250M, respectively. These unrisks prospect reserves are based on the results of the Brookhaven Com #7A, completed in the SE/4 of section 36 in 1996. BROG WI/NRI is 52.11%/42.43% and 63.43%/54.10% for the Chacra and Mesaverde reservoirs, respectively.

Economics

This well is proposed as one of two newdrill follow-ups to the Brookhaven Com #7A, (the other being the Brookhaven Com #11). Economic assumptions include budget default values of \$700/mo gross operating expense, including G&G, and flat sales prices of \$1.45/mcf and \$17/bbl. Initial production rates, declines and EUR's are based on the Brookhaven Com #7A. A 90% probability of success is assumed. Dry hole costs are estimated at \$119M.

AFIT results of the economic calculations are summarized below.

	risked	unrisked
ROR, %	73.2	77.8
P/I @10%, \$/\$	0.70	0.74
Payout @ 10%, yrs	1.75	1.68
NPV @ 10%, MS	160	183
Net reserves, MMcf	512	569
Net Investment, MS	232	250

Discussion

Reserves for this evaluation are based on the performance of the Brookhaven Com #7A, as follows (see attached production profiles):

	Chacra	Mesaverde
Qi, mcf/d	650	600
D, %/yr	38	74
n	0	1
Yield, bbl/mmcft	0	7
Gas EUR, mmcf	485	645
Condensate EUR, mbo	0	4.5

The attached nine section plats support these estimates as being reasonable to conservative for each zone.

The NMOCD Chacra designation applies to the entire Lewis interval in this area, thus allowing eventual testing and/or completions in other intervals of the Lewis shales.

### Geology

The Chacra reservoir is generally a sequence of clean, marine-influenced sandstones, deposited as a distal shoreface equivalent of the La Ventana still-stand event. The reservoir is a package of overall coarsening upward sandstones with good porosity (10%-14%) and resistivity (10-50 ohm-m). In addition, several sandstones show gas cross-over response as shown by the attached type log and cross section.

The subject well lies generally along depositional strike to the offset Brookhaven Com #7-A and therefore is expected to have similar Chacra development. As observed from the cross section, there are generally two distinct reservoirs which are typically completed. These two reservoirs occur at the lower level and middle level of the Chacra interval. In addition to the lower two units, an upper sandstone is also present. This unit has good porosity but has distinctly lower resistivity and therefore is often interpreted as water-bearing and not completed. However, the Brookhaven Com #7-A was completed in this interval along with the lower two units. This well is the best well in the nine section area and has produced water-free. Following completion, a perforation efficiency log (noise log) was run in this well and it was discovered that this upper sandstone was contributing approximately 18% (~460 mcf/d) of total well flow (~2.5 mmcf/d). As a result of this favorable completion, all three intervals will also be completed in the Brookhaven Com #11.

The Mesaverde Formation, which includes the Point Lookout and Menefee formations, will also be completed in the subject well. The Point Lookout Formation is characterized by an upward coarsening profile from very fine grain, thin bedded units in the lower portion to fine grain, thicker beds in the upper or massive portion. During the regression of the Mancos sea, the Point Lookout was deposited as a regressive shoreface environment typical of beach deposition. The Menefee Formation was deposited in a fluvial environment which existed behind the Point Lookout beach and is characterized by isolated channel sandstones interbedded with overbank shale and coal.

Historically, only the massive Point Lookout was completed as the massive Cliff House is water-bearing. Due to recent successes however, the Menefee, in addition to the Point Lookout, will also be completed in the subject well. Generally, the Menefee is wet in the upper portion and is gas-bearing in the lower portion. Until recently the transition from water to gas was interpreted from resistivity logs. This technique was not accurate enough and several squeeze jobs have been performed to stop water flow from wet intervals which were inadvertently stimulated. To answer this problem, magnetic resonance imaging (MRI) technology was utilized. Thus far, the MRI log has done an excellent job in identifying zones with movable and immovable water saturations and will be employed to maximize our gas production without sustaining water production.

**Burlington Resources**  
 San Juan Division  
 Post Office Box 4289  
 Farmington, New Mexico, 87499  
 (505) 326-9700

AUTHORITY FOR EXPENDITURE

AFE No.: 5R79 Property Number 0125828000 Date: 7/2/98  
 Lease/Well Name: BROOKHAVEN COM #8 DP Number: \_\_\_\_\_  
 Field Prospect: BLANCO MV & LARGO CHACRA Region: Farmington  
 Location: C SEC 36 T27N R8W County: SAN JUAN State: NM  
 AFE Type: DEVELOPMENT 01 Original  Supplement  Addendum  API Well Type \_\_\_\_\_  
 Operator: BURLINGTON RESOURCES  
 Objective Formation: OTERO CHACRA Authorized Total Depth (Feet): 4850'  
 Project Description: Drill, Comp., & set Facilities for this dual Chacra/Mesaverde  
 Estimated Start Date: Sept., 1998 Prepared By: Tap Harris  
 Estimated Completion Date: Oct., 1998

GROSS WELL DATA

	Drilling		Workover/ Completion	Construction Facility	Total
	Dry Hole	Suspended			
Days:		6	9		15
This AFE:		\$80,695	\$86,640	\$22,680	\$190,015
Prior AFE's:					\$0
<b>Total Costs:</b>	<b>\$0</b>	<b>\$80,695</b>	<b>\$86,640</b>	<b>\$22,680</b>	<b>\$190,015</b>

JOINT INTEREST OWNERS

Company:	Working Interest	Dry Hole \$	Completed \$
	Percent		
BROG TRUST	51.32445 %	\$0	\$97,524
Others:	48.67555 %	\$0	\$92,491
<b>AFE TOTAL:</b>	<b>100.00000 %</b>	<b>\$0</b>	<b>\$190,015</b>

BURLINGTON RESOURCES

Recommend: NB/knts Date: 7/10/98 Approved: JW Caldwell / pmp Date: 7/17/98  
 Reservoir Engineer Division Team Leader  
 Recommend: John S. [Signature] Date: 7/17/98 Approved: John F. [Signature] Date: 7-29-98  
 Geologist Division Landman

PARTNER APPROVAL

Company Name: \_\_\_\_\_  
 Authorized By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_

**Burlington Resources**  
 San Juan Division  
 Post Office Box 4289  
 Farmington, New Mexico, 87499  
 (505) 326-9700

AUTHORITY FOR EXPENDITURE

AFE No.: 5R80 Property Number 071603200 Date: 7/2/98

Lease/Well Name: BROOKHAVEN COM #8 DP Number: \_\_\_\_\_

Field Prospect: BLANCO MV & LARGO CHACRA Region: Farmington

Location: C SEC 36 T27N R8W County: SAN JUAN State: NM

AFE Type: DEVELOPMENT 01 Original  Supplement  Addendum  API Well Type \_\_\_\_\_

Operator: BURLINGTON RESOURCES

Objective Formation: BLANCO MESAVERDE Authorized Total Depth (Feet): 4850'

Project Description: Drill, Comp., & set Facilities for this dual Mesaverde/Chacra

Estimated Start Date: Sept., 1998 Prepared By: Tap Harris

Estimated Completion Date: Oct., 1998

GROSS WELL DATA

	Drilling		Workover/ Completion	Construction Facility	Total
	Dry Hole	Suspended			
Days:		6	9		15
This AFE:		\$80,695	\$125,940	\$30,980	\$237,615
Prior AFE's:					\$0
<b>Total Costs:</b>	<b>\$0</b>	<b>\$80,695</b>	<b>\$125,940</b>	<b>\$30,980</b>	<b>\$237,615</b>

JOINT INTEREST OWNERS

Company:	Working Interest	Dry Hole \$	Completed \$
	Percent		
BROG	63.42712 %	\$0	\$150,712
TRUST		\$0	\$0
Others:	36.57288 %	\$0	\$86,903
<b>AFE TOTAL:</b>	<b>100.00000 %</b>	<b>\$0</b>	<b>\$237,615</b>

BURLINGTON RESOURCES

Recommend: N Roberts Date: 7/16/98 Approved: JW Caldwell / prop Date: 7/12/98  
 Reservoir Engineer Division Team Leader  
 Recommend: Yusef Date: 7/17/98 Approved: John F. H. Date: 7-23-98  
 Geologist Division Landman

PARTNER APPROVAL

Company Name: \_\_\_\_\_

Authorized By: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

## Burlington Resources

Well Name: **Brookhaven Com #8**  
 Location: **NW Sec 36, T27N R08W**  
 Cty, State: **San Juan, NM**  
 Field: **Otero Chacra / Blanco Mesa Verde**  
 Formation: **Otero Chacra / Blanco Mesa Verde**  
 Proposed TD: **4850**

Prepared By: **Leslie C. White**  
 Date: **07/02/98**  
 Approved By: *Leslie C. White* **7/16/98**  
 AFE Type: **01**  
 Total Days: **6**  
 Intermediate TD: **NA**      Est \$/ft: **\$33.28**

DRLG-248	INTANGIBLE DRILLING COST	MV COST	CH COST	TOTAL COST
03	Location	\$4,250	\$4,250	\$8,500
05	Move in/Move out	\$3,750	\$3,750	\$7,500
07	Rig Cost                                      6 days @ \$ 5671 per day	\$17,013	\$17,013	\$34,026
08	Safety Equipment	\$0	\$0	\$0
10	Gas & Air Drilling	\$0	\$0	\$0
16	Stimulation Fluids	\$5,000	\$5,000	\$10,000
17	Bits	\$5,500	\$5,500	\$11,000
18	Cementing	\$7,500	\$7,500	\$15,000
22	Coring & Analysis	\$0	\$0	\$0
23	Fuel/Electricity	\$0	\$0	\$0
25	Rentals	\$0	\$0	\$0
26	Fishing Tool	\$0	\$0	\$0
28	Other Rentals	\$0	\$0	\$0
29	Transportation	\$375	\$375	\$750
32	Directional Services	\$0	\$0	\$0
33	Tubular inspection & Repair	\$700	\$700	\$1,400
34	Logging Services	\$12,500	\$12,500	\$25,000
43	Ccnsultants                                      6 days @ \$ 400 per day	\$1,200	\$1,200	\$2,400
44	Technical Contract Services	\$0	\$0	\$0
45	Roustabout Labor	\$500	\$500	\$1,000
46	Miscellaneous	\$250	\$250	\$500
49	Packer Rental	\$0	\$0	\$0
53	Env. Cost	\$250	\$250	\$500
54	Disposal Cost	\$0	\$0	\$0
60	District Tools	\$250	\$250	\$500
72	Company Supervision & Overh              6 days @ \$ 141 per day	\$423	\$423	\$846
<b>Total Intangibles</b>		<b>\$59,461</b>	<b>\$59,461</b>	<b>\$118,922</b>
<b>TANGIBLE DRILLING COST</b>				
80	Casing (COPAS Price)			
	200 FT      8 5/8 "      24.0 #      K55      \$      \$12.46 /ft*	\$1,246	\$1,246	\$2,492
	4850 FT      5 1/2 "      15.5 #      K55      \$      \$7.83 /ft*	\$18,988	\$18,988	\$37,976
81	Tubing (COPAS Price)	\$0	\$0	\$0
82	Packers, Screens, & Bridge Plugs	\$0	\$0	\$0
84	Casing/Tubing Equipment	\$0	\$0	\$0
86	Wellhead Equip & Xmas Tree	\$1,000	\$1,000	\$2,000
<b>Total Tangibles</b>		<b>\$21,234</b>	<b>\$21,234</b>	<b>\$42,468</b>
<b>TOTAL DRILLING COST ESTIMATE</b>		<b>\$80,695</b>	<b>\$80,695</b>	<b>\$161,390</b>

\* All costs include tax where applicable.

**Burlington Resources Oil & Gas  
Completion Estimate**

Well Name: BROOKHAVEN COM #8  
 Location: C SEC 36 T27N R8W  
 AFE Type: DEVELOPMENT 01  
 Formation: BLANCO MV & LARGO CHACRA

Prepared By: P.M. PIPPIN  
 Date: 7/2/98  
 Approved By: \_\_\_\_\_

**Intangible Costs**

Account Number	Estimated Days:	MV	CHACRA	Total
		Cost	Cost	Estimated Cost
249				
02	Location, Roads or Canals	500	500	1,000
03	Construction and Maintenance			0
04	Surface Restoration	500	500	1,000
05	Move-in, Move-out	1,500	1,500	3,000
07	Fees of Contractor - Daywork 9 DAYS	10,130	10,130	20,260
09	Drilling Fluid System - Liquids			0
10	Gas and Air Drilling	5,000	5,000	10,000
12	Specialty Fluids and Chemicals	500	500	1,000
15	Onsite Disposal Svc.			0
16	Fresh Water	3,000	1,000	4,000
17	Bits	300	300	600
18	Primary Cement			0
19	Remedial Cementing			0
23	Fuel/Electricity	1,000	1,000	2,000
25	Drill Work String Rentals (Surface)			0
26	Fishing Tool Rentals			0
27	Tank Rentals	2,700	300	3,000
28	Other Rental	500	500	1,000
29	Transportation	500	500	1,000
30	Offsite Disposal Service			0
33	Tubular Inspection			0
34	Cased Hole Services	6,200	5,200	11,400
37	Swabbing & Coiled Tubing			0
38	Stimulation	2,000	2,000	4,000
39	Fracturing	60,000	32,000	92,000
43	Consultants			0
44	Technical Contract Svc.	3,800	2,500	6,300
45	Roustabout Labor			0
46	Miscellaneous			0
49	Packer Rental	1,500	1,500	3,000
72	Overhead (Contingency 5%)	6,000	4,130	10,130
74	Employee Expense	3,380	3,380	6,760
	<b>Total Intangibles</b>	<b>109,010</b>	<b>72,440</b>	<b>181,450</b>

**Tangible Costs**

81	Tubing 1-1/2" 2.76# J-55 IJ @ \$2.33/FT (3000 ft)		6,700	6,700
81	Tubing 1-1/2" 2.9# shavedEUE @ \$2.051 (4450 ft)	9,130		9,130
82	Packers and Bridge Plugs	2,100	2,100	4,200
84	Casing/Liner Equipment			0
85	Tubing Equipment	500	200	700
86	Wellhead Equipment & Tree	5,200	5,200	10,400
	<b>Total Tangibles</b>	<b>16,930</b>	<b>14,200</b>	<b>31,130</b>

<b>Total Completion Cost</b>	<b>125,940</b>	<b>86,640</b>	<b>212,580</b>
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**Burlington Resources Oil & Gas  
Facilities Estimate**

Well Name: BROOKHAVEN COM #8  
 Location: C SEC 36 T27N R8W  
 AFE Type: DEVELOPMENT 01  
 Formation: BLANCO MV & LARGO CHACRA

Prepared By: P.M. PIPPIN  
 Date: 7/2/98  
 Approved By: \_\_\_\_\_

**Tangible Costs**

Account Number	Estimated Days:	MV	CH	Total
		Cost	Cost	Estimated Cost
247				
02	Labor-Contract, Roustabout, Consultants	2,000	2,000	4,000
03	Company Vehicles			0
08	Location, Roads & Canals			0
12	Overhead			0
17	Damages, Property Losses			0
20	Equip. Coating and Insulation			0
26	SWD Filtering			0
27	Separators	14,000	9,600	23,600
28	Gas Sweetening			0
29	Pumping Units			0
31	Prime Mover			0
32	Tanks	4,500	1,000	5,500
33	Metering Equipment			0
34	Flow Line			0
36	Building			0
39	Flowlines, Piping, Valves & Fittings	1,500	1,500	3,000
35	Compressors (Screw w/200# dis.)			0
44	Technical Contract Svc.			0
47	Rental Compressors & Maintenance			0
48	Rental Equipment			0
49	Cathodic Protection	3,000	3,000	6,000
50	Right Of Way			0
51	Minor Pipelines			0
53	Surface Pumps			0
54	Electrical Accessories	3,000	3,000	6,000
55	Miscellaneous-Facility Expense	1,000	1,000	2,000
57	Pulling Unit Costs			0
60	Oper. Owned Equip/Facilities			0
62	Env. Compliance-Assessment			0
63	Env. Compliance (Remediation)			0
68	Direct Labor			0
69	Benefits			0
73	Freight /Transportation	500	500	1,000
72	Overhead (Contingency 5%)	1,480	1,080	2,560
81	Tubing			0
82	Rods			0
83	Downhole Pumps			0
84	Alternative Artificial Lift Equip.			0
86	Convent Artificial Lift Wellhead Equip.			0
88	Communication Systems			0
95	Employee Meals			0
96	Gas Dehydrator			0
<b>Total Facility Cost</b>		<b>30,980</b>	<b>22,680</b>	<b>53,660</b>



DATE: July 14, 1998  
 NAME: T27N R8W SEC. 36  
 FMT: Chacra  
 LOCATION  
 UNIT: 36  
 SEC: 27N  
 TWN: 08W  
 RNG:

<p>12/74          Hammond 52          24/406 (12/97)          [26] M&amp;G Drilg Co. 1/80          Hammond 93          10/171 (12/97)          M&amp;G Drilg Co.</p>	<p>8/79          Federal E 4          15/335 (12/97)          Bledsoe Petroleum          4/72          Federal E 1          1/543 (7/97)          Bledsoe Petroleum</p>	<p>12/77          Hammond 91          35/476 (12/97)          M&amp;G Drilg          [25]          1/80          Hammond 92          64/597 (12/97)          M&amp;G Drilg</p>	<p>8/85          San Juan 28-7 #269          90/553 (12/97)          Conoco [30]          4/74          San Juan 28-7 #177          60/635 (12/97)          Conoco</p>
<p>[35]</p>	<p>* #9          [36]          Brookhaven Com 7A          411/150 (12/97)          2064          Burlington Resources</p>	<p>[31] 1/96          Harrington 9          140/117 (12/97)          891          Burlington Resources</p>	<p>6/91          Federal 6 #32          86/260 (12/97)          [6]          Louis-Dreyfus Natri Gas</p>
<p>[2]</p>	<p>[1]</p>	<p>[1]</p>	<p>[1]</p>

T 27  
 N

T 26  
 N

LEGEND  
 FIRST DELIVERY DATA  
 WELL NAME  
 MCFD-CUM(MMCF) (Eff Date)  
 EUR(MMCF)  
 OPERATOR

R-08-W

R-07-W

DATE: July 14, 1998

NAME: T27N R8W SEC. 36

FMT: Mesaverde

LOCATION

UNIT: 36

SEC: 27N

TWN: 08W

RNG:

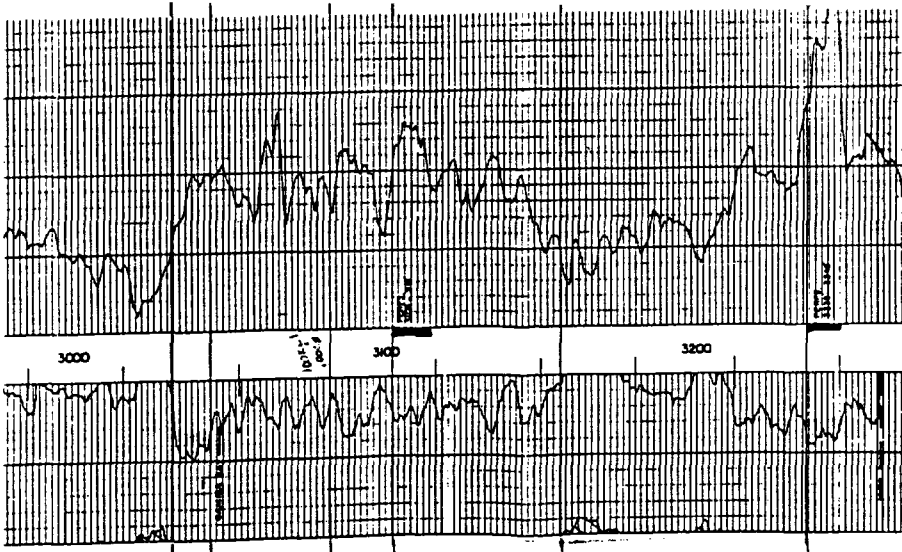
LEGEND

FIRST DELIVERY DATA
WELL NAME
MCF/D-CUM(MMCF) (Eff Date)
EUR(MMCF)
OPERATOR

<p>INA 12/66 Dawson Federal #1 0/891 (12/93) Amoco</p> <p>2/75 Hammond 55 132/865 (12/97) M&amp;G Drifg P&amp;A [26] Hammond 43 0/659 (5/73) 3/79 R&amp;G Drifg Hammond 55A 106/862 (12/97) M&amp;G Drifg</p> <p>10/81 Dawson Federal 1M 116/1133 (12/97) Amoco</p>	<p>INA 8/79 Federal E 1A 0/333 (1/88) Bledsoe Petroleum</p> <p>11/77 Hammond 41R 103/859 (12/97) Hammond 41 0/808 (8/77) [25] M&amp;G Drifg Russell Williams</p> <p>INA 4/72 Federal E 1 0/818 (12/95) Bledsoe Petroleum</p> <p>11/77 Hammond 41A 133/1091 (12/97) M&amp;G Drifg</p>	<p>[30]</p>
<p>10/77 Hammond WN Federal 7 1/78 136/1488 (12/97) Hammond 5 Conoco 56/688 (12/97) M&amp;G Drifg [35] 4/79 P&amp;A Hammond WN Federal 7A 137/942 (12/97) Conoco</p> <p>12/77 Hammond 47R 50/416 (12/97) Hammond 47 0/265 (6/73) M&amp;G Drifg R&amp;G Drifg</p>	<p>* * *</p> <p>[36] 1/97 Brookhaven Com 7A 241/158 (5/98) 2498 Burlington Resources</p>	<p>12/85 Harrington 7 64/360 (12/97) 791 [31] Burlington Resources</p> <p>12/85 Harrington 6 73/471 (12/97) 853 Burlington Resources</p> <p>1/96 Harrington 993/133 (5/98) 1503 Burlington Resources</p>
<p>[2]</p>	<p>4/86 Lutty A 4 [1] 103/557 (12/97) 1682 Burlington Resource</p> <p>Louis - Dreyaus Natrl Gas MKL #5A 81/433 (12/97)</p>	<p>3/52 MKL #5 103/957 (12/97) Louis Dreyaus Natrl Gas</p> <p>[6] 10/82 MKL #5A 81/433 (12/97) Louis Dreyaus Natrl Gas</p>

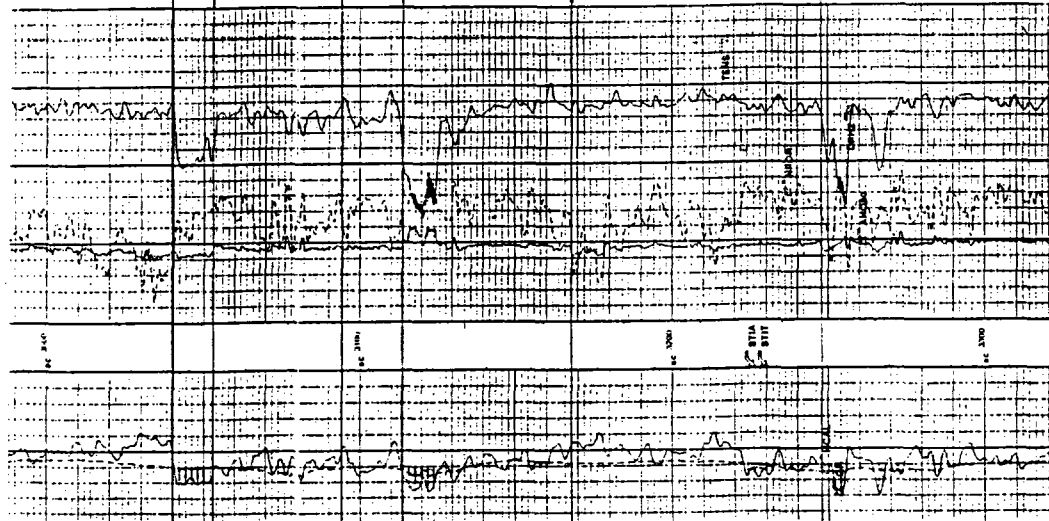
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R-07-W

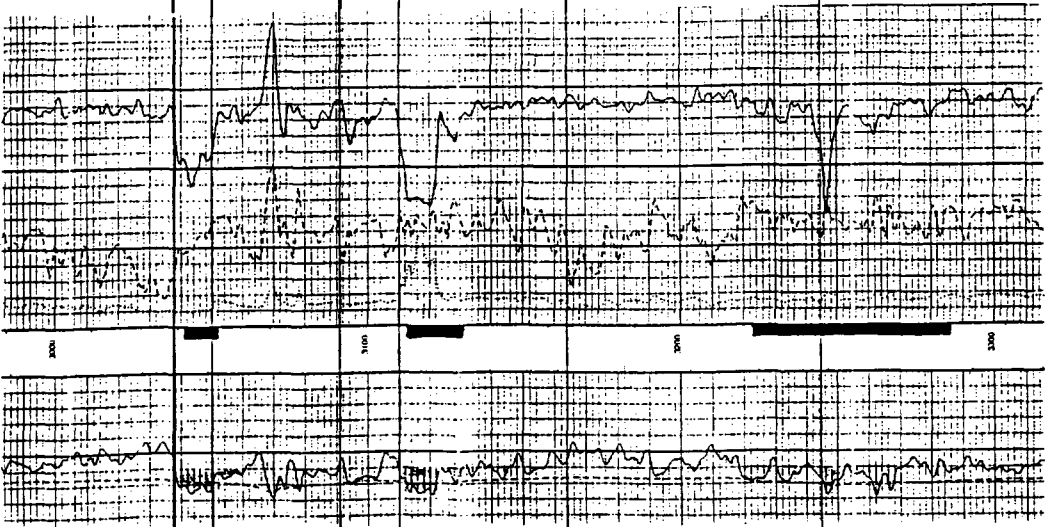


Hammond #92  
SE 25-27-B

EUR = 909 MM



Brookhaven Com #7  
NE 36-27-B



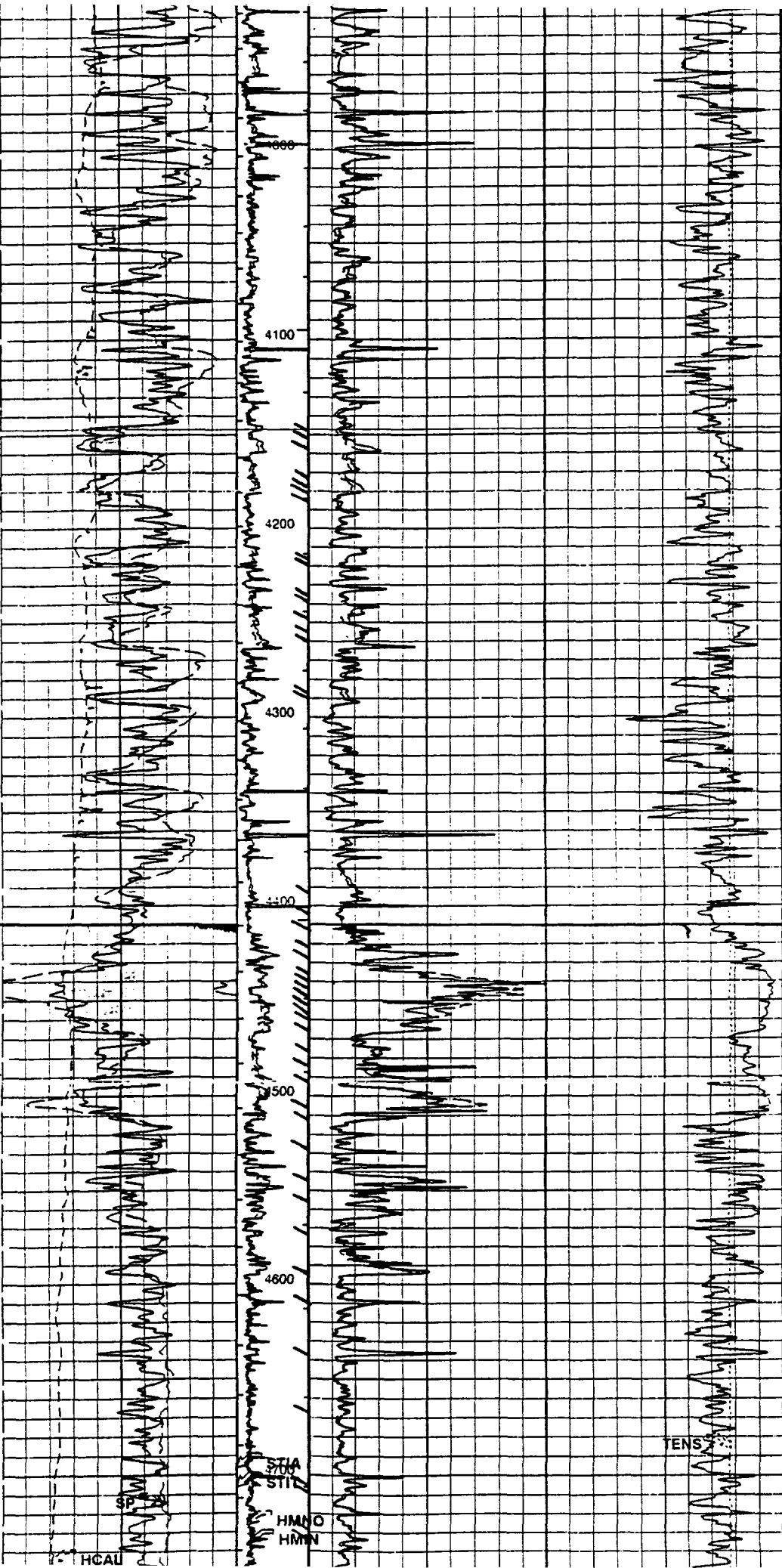
May 11/12 in winter com #8  
Brookhaven Com #7-A  
SE 36-27-B

EUR = 2685 MM

Chacra Cross Section

Merefee

Point Lookout

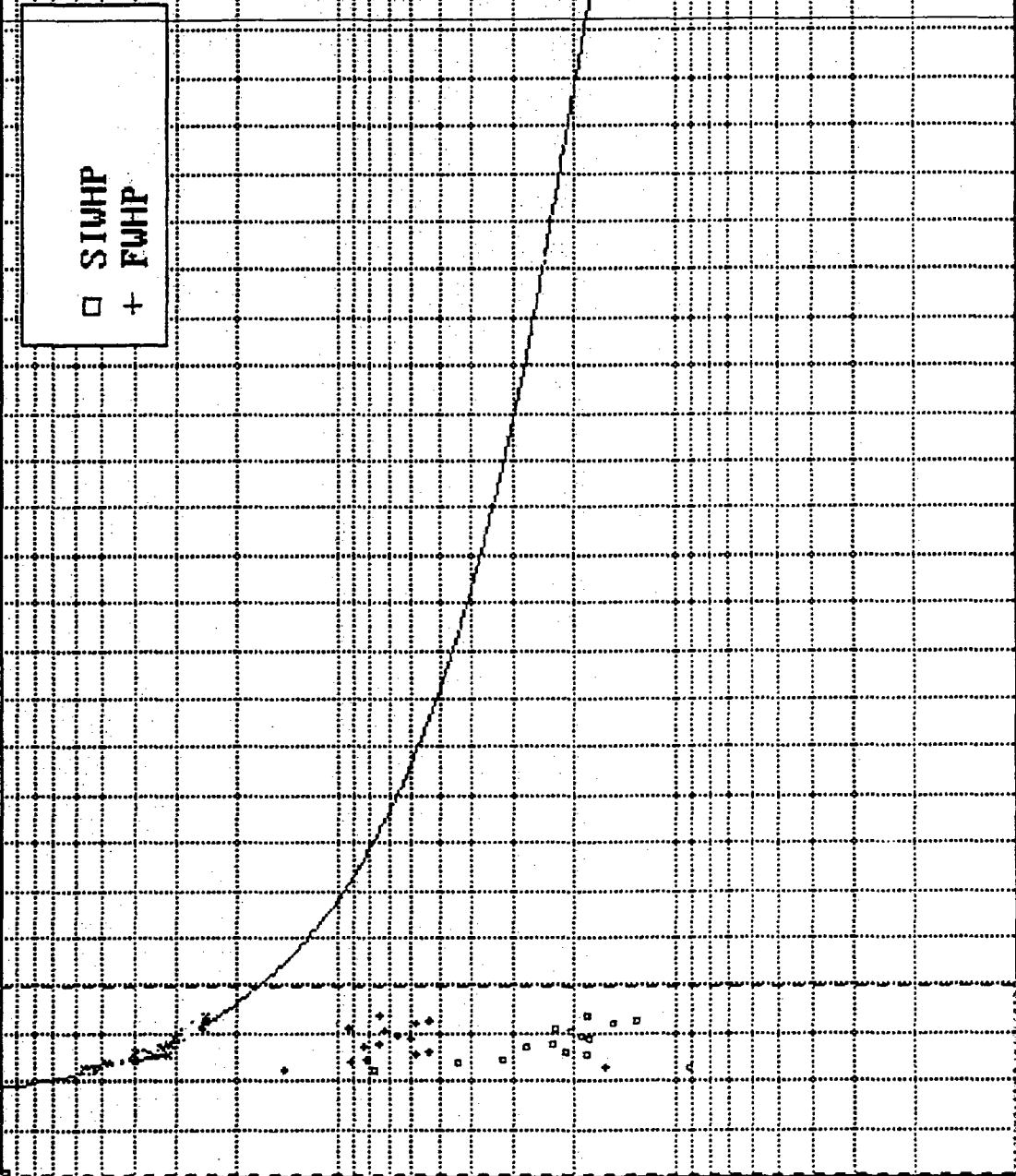


Sgzd due to water production

TENS

BROOKHAVEN COM 1 7A 1 34572A-1 MV

WATER  
OIL/GAS  
Mcf



Prop 1 \*

- GAS Mcf/d
- OIL Bbl/d
- OIL/GAS Bbl/M
- WATER Bbl/d

RateTime  
 Semi Log

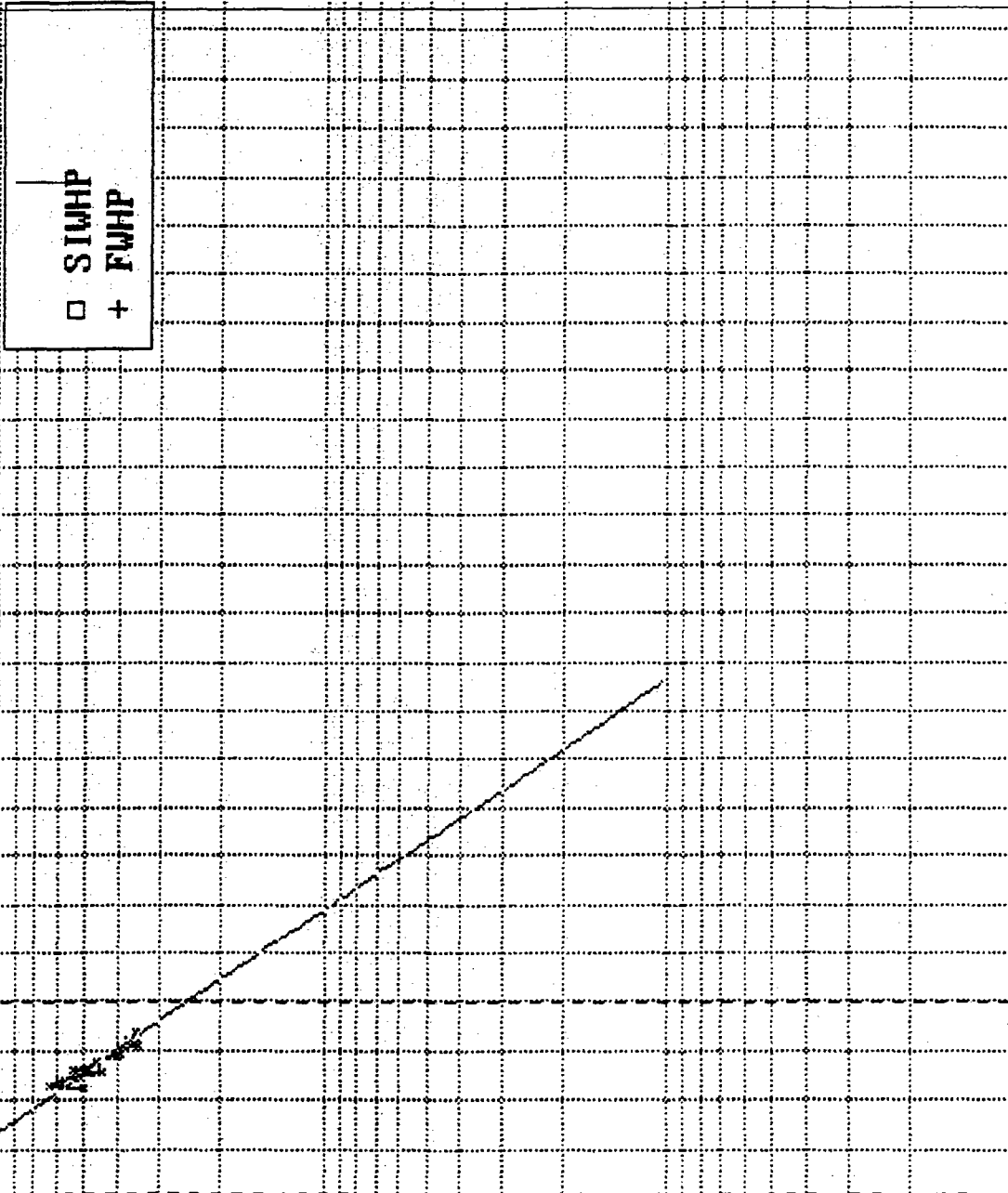
EUR	602,844
Cum	0
Rem	602,844
Rem%	100.0%
Yrs	33
Date	3/1/1997
Act	16,287
Qmo	17,285
Q	588.5
n	0.995
De	73.567
Qab	10

95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19

Major = GAS

BROOKHAVEN COM I 7A I 34572B-1 c/AcRA

• WATER  
 OIL/GAS  
 • OIL  
 • GAS



Prop 2 \*

- \*GAS Mcf/d
- OIL Bbl/d
- OIL/GAS Bbl/M
- WATER Bbls/d

RateTime  
 Semi Log

EUR 444,639  
 Cum 0  
 Rem 444,639  
 Rem% 100.0%  
 Yrs 8.67

Date 1/1/1997

Act 0  
 Qmo 19,548

Q 643.5  
 n 0  
 De 38.175

Qab 10

95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19

11  
 11  
 000

Major = GAS

BROOKHAVEN COM # 8  
 DRILL A CHACRA/MESAVERDE WELL

DATE : 07/15/98  
 TIME : 14:11:21  
 DBS FILE : FD98AR12  
 SETUP FILE : BUDGET98  
 SEQ NUMBER : 6

**THIS IS MV FILE**  
 MV = 63.43/54.10

PRE: WORK:TOT:WORK (RISKED)  
 POST: 99POST:TOT:99POST

INPUT DATA

CALCULATED DATA

ITEM	SCHEDULING RATES		SCHEDULE UNTIL		PROCEDURE		ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE
405 START	11/98										
410 GAS	17900.00	300.00 M/M	X	YRS	H/.995	74.00	645.534	9/41	74.00	17900.	300.
415 OIL/GAS	7.00	7.00 B/MM	TO	LIFE	LIN	TIME		9/41			
505 OPC/W	150.00	X \$/M	TO	LIFE	SCH	INF		9/41		150.000	150.000
510 OPC/T	200.00	X \$/M	TO	LIFE	SCH	INF		9/41		200.000	200.000
511 PRI/GAS	1.4500	X \$/M	TO	LIFE	ESC	CONVGAS		9/41		1.450	1.450
512 PRI/OIL	17.0000	X \$/B	TO	LIFE	ESC	SJDOIL		9/41		17.000	17.000
513 ATX	1.35	X %	TO	LIFE	PC/Y	.00		9/41		.013	.013
514 STX/OIL	7.08	X %	TO	LIFE	PC/Y	.00		9/41		.071	.071
515 STX/GAS	7.93	X %	TO	LIFE	PC/Y	.00		9/41		.079	.079
700 NET/WI	63.4271	D %	TO	LIFE	FLAT	.00		9/41		.634	.634
720 NET/NIC	54.1039	D %	TO	LIFE	FLAT	.00		9/41		.541	.541
740 NET/NIG	54.1039	D %	TO	LIFE	FLAT	.00		9/41		.541	.541

INVESTMENT	TANGIBLES & INTANGIBLES		TIME	PROCEDURE	TOTAL T&I	MONTH	RISK INV.	TOT. T&I&R	ESC. T&I&R
800 EXPCOMP	69.22	168.47 MSG	09/98 AD		237.690	9/98		237.6	237.6
<b>DHC</b>	<b>0</b>	<b>59.46</b>			<b>59.46</b>				

RESERVE PARAMETERS ITEM

201 LOSS	ZERO
202 BTU	1.00
205 BTU	1.20

PROJECT ASSUMPTIONS

BASE DATE : 1/98 TIME FRAMES : 25\*12 15\*60  
 P.W. DATE : 7/98 PW %-AGE : 10.0 DISC. FREQUENCY : MID  
 REPORT DATE : 1/98 PROD QUAL : WORK OWNER QUAL : TOT OTHER QUAL : WORK

BROOKHAVEN COM # 8  
 DRILL A CHACRA/MESAVERDE WELL  
**THIS IS CHACRA FILE**  
 CHACRA = 52.11912/42.435423  
 PRE: WORK:TOT:WORK (RISKED)  
 POST: 99POST:TOT:99POST

DATE : 07/15/98  
 TIME : 14:11:24  
 DBS FILE : FD98AR12  
 SETUP FILE : BUDGET98  
 SEQ NUMBER : 67

INPUT DATA

CALCULATED DATA

ITEM	SCHEDULING RATES		SCHEDULE UNTIL		PROCEDURE		ULTIMATE	LAST	EFF. DECL	INIT. RATE	FINAL RATE
405 START	11/98										
410 GAS	19600.00	300.00 M/M	X	YRS	EXP	38.00	484.507	7/07	38.00	19600.	299.
505 OPC/W	150.00	X \$/M	TO	LIFE	SCH	INF		7/07		150.000	150.000
510 OPC/T	200.00	X \$/M	TO	LIFE	SCH	INF		7/07		200.000	200.000
511 PRI/GAS	1.4500	X \$/M	TO	LIFE	ESC	CONVGAS		7/07		1.450	1.450
512 PRI/OIL	17.0000	X \$/B	TO	LIFE	ESC	SJDOIL		7/07		17.000	17.000
513 ATX	1.35	X %	TO	LIFE	PC/Y	.00		7/07		.013	.013
514 STX/OIL	7.08	X %	TO	LIFE	PC/Y	.00		7/07		.071	.071
515 STX/GAS	7.93	X %	TO	LIFE	PC/Y	.00		7/07		.079	.079
700 NET/WI	52.1191	D %	TO	LIFE	FLAT	.00		7/07		.521	.521
720 NET/NIC	42.4354	D %	TO	LIFE	FLAT	.00		7/07		.424	.424
740 NET/NIG	42.4354	D %	TO	LIFE	FLAT	.00		7/07		.424	.424

INVESTMENT	TANGIBLES & INTANGIBLES		TIME	PROCEDURE	TOTAL T&I	MONTH	RISK INV.	TOT. T&I&R	ESC. T&I&R
800 EXPCOMP	59.19	131.90 MSG	09/98 AD		191.090	9/98	.	191.0	191.0
	<b>D+C</b>	<b>0</b>			<b>59.46</b>				

RESERVE PARAMETERS	ITEM	ITEM
201 LOSS	ZERO	
202 BTU	1.00	
205 BTU	1.20	

PROJECT ASSUMPTIONS

BASE DATE : 1/98 TIME FRAMES : 25\*12 15\*60  
 P.W. DATE : 7/98 PW %-AGE : 10.0 DISC. FREQUENCY : MID  
 REPORT DATE : 1/98 PROD QUAL : WORK OWNER QUAL : TOT OTHER QUAL : WORK



AS OF DATE: 7/98

RISKED TOTAL ; P<sub>s</sub> = 90%

-END- MO-YR	GROSS OIL PRODUCTION -----MMBLS-----	GROSS GAS PRODUCTION -----MMCF-----	NET OIL PRODUCTION -----MMBLS-----	NET GAS PRODUCTION -----MMCF-----	NET OIL PRICE ---\$/BBL---	NET GAS PRICE ---\$/MCF---	NET OIL SALES -----M\$-----	NET GAS SALES -----M\$-----	TOTAL NET SALES -----M\$-----
12-98	.203	62.977	.110	30.116	17.000	1.740	1.871	52.402	54.274
12-99	.745	261.772	.403	123.498	17.000	1.740	6.850	214.886	221.736
12-00	.422	156.623	.228	73.498	17.000	1.740	3.881	127.887	131.768
12-01	.296	101.956	.160	48.193	17.000	1.740	2.719	83.855	86.574
12-02	.228	69.549	.123	33.308	17.000	1.740	2.094	57.956	60.049
12-03	.185	49.403	.100	24.050	17.000	1.740	1.702	41.846	43.549
12-04	.156	36.516	.084	18.096	17.000	1.740	1.435	31.486	32.921
12-05	.135	28.076	.073	14.161	17.000	1.740	1.239	24.640	25.879
12-06	.119	22.417	.064	11.490	17.000	1.740	1.091	19.993	21.084
12-07	.106	17.305	.057	9.109	17.000	1.740	.974	15.850	16.825
S-TOT	2.594	806.596	1.403	385.519	17.000	1.740	23.857	670.802	694.659
AFTER	1.471	210.140	.796	113.694	17.000	1.740	13.530	197.828	211.357
TOTAL	4.065	1016.736	2.199	499.213	17.000	1.740	37.386	868.630	906.016

-END- MO-YR	ADV, WPT & PROD TAXES -----M\$-----	DIRECT OPER EXPENSE -----M\$-----	NET G&A EXPENSE -----M\$-----	EQUITY INVESTMENT -----M\$-----	BFIT NET CASHFLOW -----M\$-----	DEPRECIATION & DEPLETION -----M\$-----	FED & STATE INCOME TAX -----M\$-----	AFIT NET CASHFLOW -----M\$-----	AFIT NET PRESENT VALUE -----M\$-----
12-98	4.961	.809	.000	232.189	-183.686	9.607	-47.886	-135.800	-132.141
12-99	20.276	4.772	.000	.000	196.688	16.476	68.480	128.207	116.550
12-00	12.051	4.368	.000	.000	115.350	11.767	39.362	75.988	62.800
12-01	7.916	4.368	.000	.000	74.290	8.403	25.037	49.253	37.005
12-02	5.489	4.368	.000	.000	50.193	6.008	16.790	33.402	22.814
12-03	3.979	4.368	.000	.000	35.202	6.008	11.094	24.108	14.969
12-04	3.007	4.368	.000	.000	25.546	6.008	7.425	18.122	10.229
12-05	2.363	4.368	.000	.000	19.149	3.001	6.136	13.012	6.677
12-06	1.924	4.368	.000	.000	14.792	.000	5.621	9.171	4.278
12-07	1.535	3.547	.000	.000	11.743	.000	4.462	7.281	3.089
S-TOT	63.501	39.701	.000	232.189	359.267	67.277	136.511	222.746	146.273
AFTER	19.268	80.917	.000	.000	111.172	.000	42.245	68.926	13.803
TOTAL	82.770	120.618	.000	232.189	470.439	67.277	178.767	291.672	160.076

	GROSS -----	W.I. -----	NET -----		BFIT -----	AFIT -----	P.W. % -----	BFIT P.W. -----M\$-----	AFIT P.W. -----M\$-----
INITIAL INTEREST	1.00000	.57608	.48099	RATE OF RETURN, PCT.	83.16	73.15	5.00	339.753	208.405
TANGIBLES, M\$	115.567	67.277	67.277	UNDISC. PAYOUT, YRS.	1.43	1.60	10.00	264.456	160.076
INTANGIBLES, M\$	282.227	164.912	164.912	DISC. PAYOUT, YRS.	1.51	1.75	15.00	213.125	127.035
---TOTAL---, M\$	397.794	232.189	232.189	UNDISC. NET/INVESTMENT	2.03	1.26	20.00	174.843	102.401
				DISC. NET/INVESTMENT	1.16	.70	25.00	144.764	83.086
G&A LOAD, M\$	.000	.000	.0 %	DISC. NPV @ 10.0 %	264.46	160.08	30.00	120.320	67.443
FAC. LOAD, M\$	1.217	.701	.3 %				35.00	99.981	54.480
LAND LOAD, M\$	4.039	2.327	1.0 %	DISCOUNT %	10.0		40.00	82.755	43.552
				LIFE, YRS.	43.8		60.00	33.901	12.936
P&A COST, M\$	.000	.000	.000				80.00	3.540	-5.656
							100.00	-17.013	-17.931

UNRISKED TOTAL

-END- MO-YR	GROSS OIL PRODUCTION -----MBBLS-----	GROSS GAS PRODUCTION -----MMCF-----	NET OIL PRODUCTION -----MBBLS-----	NET GAS PRODUCTION -----MMCF-----	NET OIL PRICE -----\$/BBL-----	NET GAS PRICE -----\$/MCF-----	NET OIL SALES -----M\$-----	NET GAS SALES -----M\$-----	TOTAL NET SALES -----M\$-----
12-98	.226	69.975	.122	33.463	17.000	1.740	2.079	58.225	60.304
12-99	.827	290.857	.448	137.220	17.000	1.740	7.611	238.763	246.373
12-00	.469	174.026	.254	81.665	17.000	1.740	4.313	142.097	146.409
12-01	.328	113.285	.178	53.548	17.000	1.740	3.021	93.173	96.193
12-02	.253	77.277	.137	37.009	17.000	1.740	2.326	64.395	66.721
12-03	.206	54.892	.111	26.722	17.000	1.740	1.892	46.496	48.388
12-04	.173	40.573	.094	20.106	17.000	1.740	1.594	34.985	36.579
12-05	.150	31.196	.081	15.734	17.000	1.740	1.377	27.377	28.754
12-06	.132	24.908	.071	12.767	17.000	1.740	1.212	22.214	23.427
12-07	.118	19.228	.064	10.122	17.000	1.740	1.083	17.612	18.694
S-TOT	2.882	896.218	1.559	428.354	17.000	1.740	26.507	745.336	771.843
AFTER	1.634	233.489	.884	126.327	17.000	1.740	15.033	219.808	234.841
TOTAL	4.516	1129.707	2.444	554.681	17.000	1.740	41.540	965.144	1006.684

-END- MO-YR	ADV, WPT & PROD TAXES -----M\$-----	DIRECT OPER EXPENSE -----M\$-----	NET G&A EXPENSE -----M\$-----	EQUITY INVESTMENT -----M\$-----	BFIT NET CASHFLOW -----M\$-----	DEPRECIATION & DEPLETION -----M\$-----	FED & STATE INCOME TAX -----M\$-----	AFIT NET CASHFLOW -----M\$-----	AFIT NET PRESENT VALUE -----M\$-----
12-98	5.513	.809	.000	250.354	-196.372	10.675	-50.272	-146.100	-142.154
12-99	22.529	4.853	.000	.000	218.991	18.307	76.260	142.731	129.756
12-00	13.390	4.853	.000	.000	128.167	13.074	43.735	84.431	69.778
12-01	8.796	4.853	.000	.000	82.545	9.337	27.819	54.726	41.116
12-02	6.099	4.853	.000	.000	55.769	6.675	18.656	37.114	25.349
12-03	4.421	4.853	.000	.000	39.113	6.675	12.326	26.787	16.633
12-04	3.341	4.853	.000	.000	28.385	6.675	8.250	20.135	11.366
12-05	2.625	4.853	.000	.000	21.276	3.334	6.818	14.458	7.419
12-06	2.138	4.853	.000	.000	16.436	.000	6.246	10.190	4.754
12-07	1.705	3.941	.000	.000	13.048	.000	4.958	8.090	3.433
S-TOT	70.557	43.573	.000	250.354	407.358	74.752	154.796	252.562	167.449
AFTER	21.409	89.908	.000	.000	123.524	.000	46.949	76.585	15.337
TOTAL	91.966	133.481	.000	250.354	530.883	74.752	201.735	329.147	182.785

	GROSS -----	W.I. -----	NET -----		BFIT -----	AFIT -----	P.W. % -----	BFIT P.W. -----M\$-----	AFIT P.W. -----M\$-----
INITIAL INTEREST	1.00000	.57608	.48099	RATE OF RETURN, PCT.	88.96	77.79	5.00	385.595	236.554
TANGIBLES, M\$	128.408	74.752	74.752	UNDISC. PAYOUT, YRS.	1.40	1.54	10.00	301.856	182.785
INTANGIBLES, M\$	300.372	175.602	175.602	DISC. PAYOUT, YRS.	1.47	1.68	15.00	244.748	146.008
---TOTAL---, M\$	428.780	250.354	250.354	UNDISC. NET/INVESTMENT	2.12	1.31	20.00	202.146	118.574
				DISC. NET/INVESTMENT	1.23	.74	25.00	168.660	97.055
G&A LOAD, M\$	.000	.000	.0 %	DISC. NPV @ 10.0 %	301.86	182.79	30.00	141.439	79.618
FAC. LOAD, M\$	1.352	.779	.3 %				35.00	118.782	65.161
LAND LOAD, M\$	4.450	2.563	1.0 %	DISCOUNT %	10.0		40.00	99.587	52.968
				LIFE, YRS.	43.8		60.00	45.108	18.768
P&A COST, M\$	.000	.000	.000				80.00	11.207	-2.046
							100.00	-11.775	-15.820