

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



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ARTESIA, NEW MEXICO 88210-2118
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March 1, 2004

Lori Wrotenbery, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

MAR 1 8 2004

HOLLAND & HART LLP

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MAR 18 2004

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Application of Yates Petroleum Corporation for Enhanced Oil Recovery
Project Qualification for the Recovered Oil Tax Rate for the North Dagger
Draw Upper Pennsylvanian Unit Area, Eddy County, New Mexico

Dear Ms. Wrotenbery:

Yates Petroleum Corporation hereby makes application to qualify the North Dagger Draw Upper Pennsylvanian Unit for the recovered oil tax rate as authorized by the Enhanced Oil Recovery act. Yates Petroleum Corporation proposes to commence the recompletion and/or conversion of wells to implement a waterflood project in this unit and is making application pursuant to the rules promulgated by Commission Order No. R-9708 entered on August 27, 1992.

In accordance with Order No. R-9708, Yates Petroleum Corporation provides the following information:

A. Operator's name and address:

Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210

B. Description of Project Area:

1. A plat showing the project area is attached hereto as Exhibit "A".
2. Description of Project Area:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM

Sections 16 and 17:	All
Section 18:	S/2, S/2 NE/4, SE/4 NW/4, NE/4 NE/4
Section 19 through 21:	All
Sections 28 through 30:	All

The proposed project will impact the entire Unit Area and is more accurately identified as the injection well patterns shown on Exhibit "A" that includes the wells listed on Exhibit "B".

3. Total Acres in project area:

The North Dagger Draw Upper Pennsylvanian Unit contains a total of 5612.95 acres, more or less, of federal, state and fee lands. The project area is shown on Exhibit "A".

4. Name of the subject pool and formation:

The North Dagger Draw Upper Pennsylvanian Unit is within the North Dagger Draw Upper Pennsylvanian Pool. The unit includes the Canyon Carbonate formation. Exhibit "C" is the type log identified in the Unit Agreement.

C. Status of operations in the project area:

1. The area which is the subject of this application is currently being developed with primary production operations.

D. Method of recovery to be used:

1. Injection fluids: Produced water

E. Description of project:

1. Exhibit "B", attached hereto, lists all producing wells within the project area and provides the section, township, range and footage location of each.

2. Exhibit "B" also identifies all injection wells in the project area. An application for Authorization to Inject will be filed for each proposed new injection well on Division Form C-108.
3. Capital costs of additional facilities: Approximately \$ 1,340,000.
4. Total project costs: Approximately \$ 7,301,200.
5. Estimated total value of additional production that will be recovered as a result of this project:
An additional 2.2 MMBbls and 1.1 BCF at an average price of \$26.00 per bbl and \$4.33 per Mcf = \$62 Million.
6. Anticipated date for commencement of injection: July, 2004.
7. Type of fluid to be injected and anticipated volume:

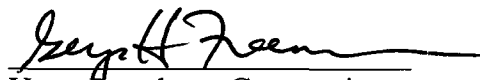
Water will be injected at an anticipated daily rate of 2500 BPD per injection well in the project area.

F. Project history and Forecast:

See production curve marked as Exhibit "D" which shows the production history and forecast, respectively, for the project area.

Yates Petroleum Corporation requests that this application be set for hearing and, if no objections are received, that it be approved.

Very truly yours,


Yates Petroleum Corporation

- Exhibit A: Plat of Project Area
Exhibit B: Table of Wells in the Project Area
Exhibit C: Type Log
Exhibit D: Historical Production Curve and Production Forecast

The image displays a 6x6 grid of 36 numbered squares, each containing various symbols and text labels. The grid is divided into four quadrants by a central vertical and horizontal line. The top-left quadrant (squares 1-12) is outlined in green. The top-right quadrant (squares 13-24) is outlined in blue. The bottom-left quadrant (squares 25-36) is outlined in red. The bottom-right quadrant (squares 37-48) is outlined in green. Each square contains a number in the center, surrounded by various symbols including circles, triangles, squares, and lines, often with text labels like 'JENNY COM', 'BARBARA FEDERAL', 'ROSS 'EG' FED COM', etc. Some symbols are highlighted in green or red.

TA

Exhibit A

EXHIBIT B
YATES PETROLEUM CORPORATION
NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT

API	Well Name	Current Status	Proposed Status	Section	Township	Range	Footage North/South	Footage East/West
PHASE IA								
3001526570	BARBARA 17 SW COM 10	PRODUCING	PRODUCING	17	19S	25E	780' FSL	730' FWL
3001526106	BARBARA 18 SE FEDERAL 8	PRODUCING	PRODUCING	18	19S	25E	710' FSL	990' FEL
3001526739	BARBARA 18 SE FEDERAL 12	PRODUCING	PRODUCING	18	19S	25E	710' FSL	1980' FEL
3001525903	ROSS EG FEDERAL 3	PRODUCING	PRODUCING	20	19S	25E	660' FNL	660' FWL
3001525645	ROSS EG FEDERAL COM 2	PRODUCING	PRODUCING	19	19S	25E	660' FNL	1980' FEL
3001526937	ROSS EG FEDERAL COM 5	PRODUCING	INJECTION	19	19S	25E	860' FNL	860' FEL
3001527053	ROSS EG FEDERAL COM 12	PRODUCING	INJECTION	19	19S	25E	1980' FNL	660' FEL
3001526719	PARISH IV COM 4	PRODUCING	PRODUCING	19	19S	25E	1780' FNL	1980' FEL
3001526770	ROSS EG FEDERAL COM 4	PRODUCING	PRODUCING	20	19S	25E	1980' FNL	660' FWL
3001526949	ROSS EG FEDERAL COM 9	PRODUCING	INJECTION	19	19S	25E	1980' FSL	660' FEL
3001525732	PARISH IV COM 1	PRODUCING	PRODUCING	19	19S	25E	1980' FSL	1980' FEL
3001526948	ROSS EG FEDERAL COM 8	PRODUCING	PRODUCING	20	19S	25E	1980' FSL	660' FWL
3001526692	CHAMIZA AJC COM 1	PRODUCING	PRODUCING	19	19S	25E	990' FSL	1980' FEL
3001526826	PARISH IV COM 5	PRODUCING	PRODUCING	19	19S	25E	915' FSL	660' FEL
3001526674	PATRIOT AIZ COM 1	PRODUCING	PRODUCING PHASE IA	20	19S	25E	990' FSL	660' FWL
INJECTION PHASE IB								
3001526821	VOIGHT AJD COM 1	PRODUCING	PRODUCING	29	19S	25E	660' FNL	660' FWL
3001527689	DAGGER DRAW 30 N COM 15	PRODUCING	INJECTION	30	19S	25E	660' FNL	660' FEL
3001525809	DAGGER DRAW 30 N COM 5	SHUT IN	PRODUCING	30	19S	25E	990' FNL	1980' FEL
3001527088	VOIGHT AJD COM 2	PRODUCING	PRODUCING	29	19S	25E	1980' FNL	660' FWL
3001527378	DAGGER DRAW 30 N COM 17	PRODUCING	INJECTION	30	19S	25E	1665' FNL	660' FEL
3001527012	DAGGER DRAW 30 N COM 12	PRODUCING	PRODUCING	30	19S	25E	2130' FNL	1800' FEL
3001527098	BOYD X STATE COM 2	PRODUCING	PRODUCING	29	19S	25E	1980' FSL	660' FWL
3001525833	DAGGER DRAW 30 SE COM 8	PRODUCING	PRODUCING	30	19S	25E	1980' FSL	1980' FEL
3001500116	DAGGER DRAW 30 SE COM 2	P&A	P&A PHASE IA	30	19S	25E	1969' FSL	629' FEL
INJECTION PHASE IB								
PHASE IB								
3001526672	CONOCO COM 1	PRODUCING	PRODUCING	18	19S	25E	710' FNL	660' FEL
3001520441	BARBARA FEDERAL 1	P&A	PRODUCING	18	19S	25E	1980' FNL	660' FEL
3001526292	CONOCO COM 9	PRODUCING	PRODUCING	18	19S	25E	1980' FNL	1980' FEL
3001527342	BARBARA 18 NW FEDERAL 16	TA	PRODUCING	18	19S	25E	1980' FNL	1530' FWL
3001526711	LEHMAN COM 11	PRODUCING	PRODUCING	18	19S	25E	1980' FSL	660' FWL
3001520690	BARBARA 18 SW FEDERAL 2	P&A	INJECTION	18	19S	25E	1980' FSL	1980' FWL

EXHIBIT B
YATES PETROLEUM CORPORATION
NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT

API	Well Name	Current Status	Proposed Status	Section	Township	Range	Footage North/South	Footage East/West
3001521794	BARBARA 18 SE FEDERAL 6	P&A	PRODUCING	18	19S	25E	1980' FSL	1980' FEL
3001526013	LEHMAN COM 1	PRODUCING	PRODUCING	18	19S	25E	710' FSL	990' FWL
3001523960	LODEWICK A 1	PRODUCING	PRODUCING	19	19S	25E	660' FNL	1980' FWL
3001526673	LODEWICK A 3	PRODUCING	PRODUCING	19	19S	25E	660' FNL	660' FWL
3001526635	LODEWICK A COM 2	PRODUCING	PRODUCING	19	19S	25E	1650' FNL	660' FWL
3001524284	DAGGER DRAW 19 SW 4	SHUT IN	PRODUCING	19	19S	25E	1980' FSL	660' FWL
3001526662	DAGGER DRAW 19 SW 10	PRODUCING	PRODUCING	19	19S	25E	660' FSL	660' FWL
3001527137	DAGGER DRAW 19 SW 14	PRODUCING	INJECTION	19	19S	25E	660' FSL	1980' FWL
3001526489	DAGGER DRAW 30 N COM 9	PRODUCING	PRODUCING	30	19S	25E	1980' FNL	660' FWL
3001527179	DAGGER DRAW 30 N COM 13	PRODUCING	INJECTION	30	19S	25E	1980' FNL	1980' FWL
3001520305	DAGGER DRAW 30 N COM 1	P&A	PRODUCING	30	19S	25E	660' FNL	660' FWL
3001525787	DAGGER ZW 1	PRODUCING	PRODUCING	30	19S	25E	1980' FSL	1980' FWL
3001526921	DAGGER ZW 3	PRODUCING	PRODUCING	30	19S	25E	1730' FSL	660' FWL
3001526364	PINCUSHION AHN 1	PRODUCING	PRODUCING	30	19S	25E	660' FSL	660' FWL
3001526827	PINCUSHION AHN 3	PRODUCING	PRODUCING	30	19S	25E	660' FSL	1980' FWL
3001526763	DAGGER DRAW 30 SE COM 11	PRODUCING	PRODUCING	30	19S	25E	660' FSL	1980' FEL
3001527900	DAGGER DRAW 30 SE COM 16	PRODUCING	PRODUCING	30	19S	25E	660' FSL	660' FEL
3001528050	ASPEN AOH FEDERAL COM 1	PRODUCING	PRODUCING	29	19S	25E	660' FSL	660' FWL
3001526938	ROSS EG FEDERAL 6	PRODUCING	PRODUCING	20	19S	25E	660' FNL	1980' FWL
3001528374	HOOPER AMP COM 4	PRODUCING	PRODUCING	20	19S	25E	660' FNL	660' FEL
3001526945	ROSS EG FEDERAL 7	PRODUCING	RECOMPLETE TO FROM MORROW	20	19S	25E	1980' FNL	1980' FWL
3001526997	ROSS EG FEDERAL COM 10	PRODUCING	INJECTION	20	19S	25E	1980' FNL	1980' FEL
3001528188	HOOPER AMP COM 3	PRODUCING	PRODUCING	20	19S	25E	1980' FNL	660' FEL
3001527356	HOOPER AMP 2	PRODUCING	PRODUCING	21	19S	25E	1980' FNL	660' FWL
3001528128	ROSS EG FEDERAL COM 13	PRODUCING	INJECTION	20	19S	25E	1980' FSL	660' FEL
3001521523	ROSS EG FEDERAL COM 1	PRODUCING	INJECTION	20	19S	25E	1980' FSL	1980' FWL
3001527335	HOOPER AMP 1	PRODUCING	PRODUCING	21	19S	25E	820' FSL	660' FWL
3001527777	PATRIOT AIZ COM 4	PRODUCING	PRODUCING	20	19S	25E	810' FSL	1980' FWL
3001527189	PATRIOT AIZ COM 2	PRODUCING	PRODUCING	20	19S	25E	760' FSL	1980' FEL
3001527633	PATRIOT AIZ COM 3	PRODUCING	PRODUCING	20	19S	25E	760' FSL	660' FEL

EXHIBIT B
YATES PETROLEUM CORPORATION
NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT

API	Well Name	Current Status	Proposed Status	Section	Township	Range	Footage North/South	Footage East/West
PHASE II								
3001528327	APAREJO APA STATE COM 1	PRODUCING	PRODUCING	16	19S	25E	660' FNL	660' FWL
3001528629	APAREJO APA STATE COM 5	PRODUCING	PRODUCING	16	19S	25E	660' FNL	1980' FWL
3001520680	APAREJO A-P-A STATE COM 2	PRODUCING	PRODUCING	16	19S	25E	2080' FNL	1780' FWL
3001528413	APAREJO APA STATE COM 3	PRODUCING	PRODUCING	16	19S	25E	660' FNL	1980' FEL
3001521044	BOYD X COM 1	PRODUCING	PRODUCING	16	19S	25E	990' FNL	990' FEL
3001528738	BOYD X STATE COM 12	PRODUCING	PRODUCING	16	19S	25E	1880' FNL	660' FEL
3001527314	AMOLE AMM STATE COM 1	PRODUCING	PRODUCING	16	19S	25E	760' FSL	660' FWL
3001528424	AMOLE AMM STATE COM 2	PRODUCING	PRODUCING	16	19S	25E	1780' FSL	1980' FWL
3001528552	AMOLE AMM STATE COM 3	PRODUCING	INJECTION	16	19S	25E	660' FSL	1980' FWL
3001528542	AMOLE AMM STATE COM 4	PRODUCING	PRODUCING	16	19S	25E	1980' FSL	660' FEL
3001528541	BOYD X STATE COM 10	PRODUCING	INJECTION	16	19S	25E	660' FSL	1980' FEL
3001528557	BOYD X STATE COM 11	PRODUCING	PRODUCING	16	19S	25E	810' FSL	730' FEL
3001526469	JENNY COM 1	PRODUCING	RECOMPLETE TO FROM MORROW	17	19S	25E	1750' FNL	660' FWL
3001527165	JENNY COM 2	PRODUCING	PRODUCING	17	19S	25E	660' FNL	1980' FWL
3001520817	BARBARA FED 3	P&A	PRODUCING	17	19S	25E	1980' FNL	1980' FWL
3001527047	JULIE 2	PRODUCING	PRODUCING	17	19S	25E	660' FNL	1980' FEL
3001528489	JULIE COM 3	PRODUCING	RECOMPLETE TO FROM MORROW	17	19S	25E	660' FNL	660' FEL
3001527159	DAGGER DRAW A 1	PRODUCING	PRODUCING	17	19S	25E	1650' FNL	1980' FEL
3001521863	DAGGER DRAW A 2	PRODUCING	INJECTION	17	19S	25E	1980' FNL	990' FEL
3001527417	BARBARA 17 SW COM 17	PRODUCING	PRODUCING	17	19S	25E	1650' FSL	1650' FWL
3001510761	BARBARA 17 SW COM 4	P&A	PRODUCING	17	19S	25E	1980' FSL	660' FWL
3001527631	BARBARA 17 SE COM 18	PRODUCING	INJECTION	17	19S	25E	660' FSL	760' FEL
3001521816	BARBARA 17 SE COM 7	P&A	INJECTION	17	19S	25E	1980' FSL	1980' FEL
3001528414	VANN APD 1	PRODUCING	PRODUCING	21	19S	25E	660' FNL	660' FWL
3001528410	PATRIOT AIZ 11-H	PRODUCING	PRODUCING	21	19S	25E	1880' FNL	1880' FWL
3001528501	ROSS EG FEDERAL COM 14	PRODUCING	PRODUCING	21	19S	25E	660' FNL	1980' FEL
3001528404	RODKE ADY COM 1	PRODUCING	PRODUCING	21	19S	25E	660' FNL	660' FEL
3001520890	OSAGE SWD 1	SWD	INJECTION	21	19S	25E	1980' FNL	1980' FEL
3001528409	PATRIOT AIZ 10	PRODUCING	PRODUCING	21	19S	25E	660' FSL	1980' FWL
3001528148	PATRIOT AIZ 5	PRODUCING	PRODUCING	21	19S	25E	660' FSL	1980' FEL
3001528405	PATRIOT AIZ 6-H	PRODUCING	PRODUCING	21	19S	25E	1980' FSL	660' FEL
3001528397	CUTTER APC 1	PRODUCING	PRODUCING	21	19S	25E	660' FSL	660' FEL

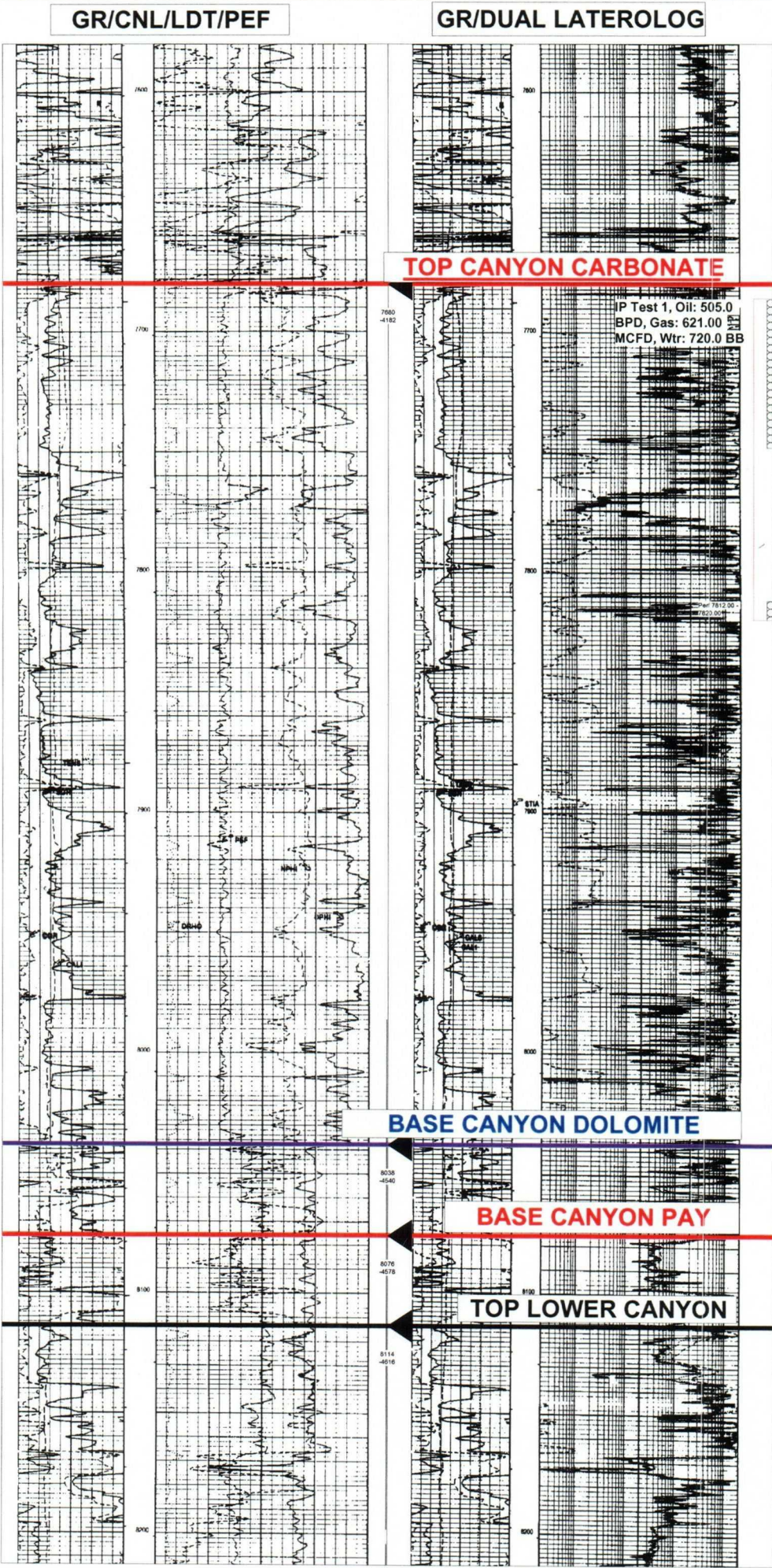
EXHIBIT B
YATES PETROLEUM CORPORATION
NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT

API	Well Name	Current Status	Proposed Status	Section	Township	Range	Footage North/South	Footage East/West
3001527640	LORENE ANN 1	PRODUCING	PRODUCING	28	19S	25E	810' FNL	660' FWL
3001529968	ROSS IZ 2	PRODUCING	PRODUCING	28	19S	25E	1980' FNL	660' FWL
3001530880	ROSS IZ 3	PRODUCING	INJECTION	28	19S	25E	660' FNL	1980' FWL
3001522435	ROSS IZ 1	PRODUCING	PRODUCING	28	19S	25E	1980' FNL	1980' FWL
3001528033	HINKLE ALD 1	PRODUCING	PRODUCING	28	19S	25E	1980' FNL	1980' FEL
3001528345	HINKLE ALD 2	PRODUCING	PRODUCING	28	19S	25E	800' FNL	1650' FEL
3001528415	HINKLE ALD 3	PRODUCING	PRODUCING	28	19S	25E	1980' FNL	660' FEL
3001521478	STATE K 1	PRODUCING	PRODUCING	28	19S	25E	660' FSL	1980' FWL
3001528053	STATE K 3	PRODUCING	PRODUCING	28	19S	25E	1980' FSL	1980' FWL
3001528103	STATE K 4	PRODUCING	RECOMPLETE TO UPPER PENN	28	19S	25E	1980' FSL	660' FWL
3001528150	TACKITT AOT 1	PRODUCING	PRODUCING	28	19S	25E	1650' FSL	990' FEL
3001528003	TACKITT AOT 2	PRODUCING	PRODUCING	28	19S	25E	1980' FSL	1980' FEL
3001528372	TACKITT AOT 3	PRODUCING	PRODUCING	28	19S	25E	660' FSL	1980' FEL
3001527641	VOIGHT AJD COM 3	PRODUCING	PRODUCING	29	19S	25E	660' FNL	1980' FWL
3001528502	ASPDEN AOH FEDERAL COM 3	PRODUCING	PRODUCING	29	19S	25E	1980' FNL	1990' FWL
3001526976	BINGER AKU 1	PRODUCING	PRODUCING	29	19S	25E	660' FNL	1980' FEL
3001528669	BINGER AKU 2	PRODUCING	PRODUCING	29	19S	25E	1980' FNL	1980' FEL
3001530881	BINGER AKU 4-H	PRODUCING	PRODUCING	29	19S	25E	660' FNL	660' FEL
3001527355	BOYD X STATE COM 4	PRODUCING	PRODUCING	29	19S	25E	1980' FEL	1980' FWL
3001528346	ASPDEN AOH FEDERAL COM 2	PRODUCING	PRODUCING	29	19S	25E	330' FSL	1980' FWL
3001527099	BOYD X STATE 3	PRODUCING	INJECTION	29	19S	25E	1980' FSL	1980' FEL
3001528370	BOYD X STATE 6	PRODUCING	PRODUCING	29	19S	25E	660' FSL	1980' FEL
3001528269	BOYD X STATE COM 5-H	PRODUCING	PRODUCING	29	19S	25E	1980' FSL	660' FEL

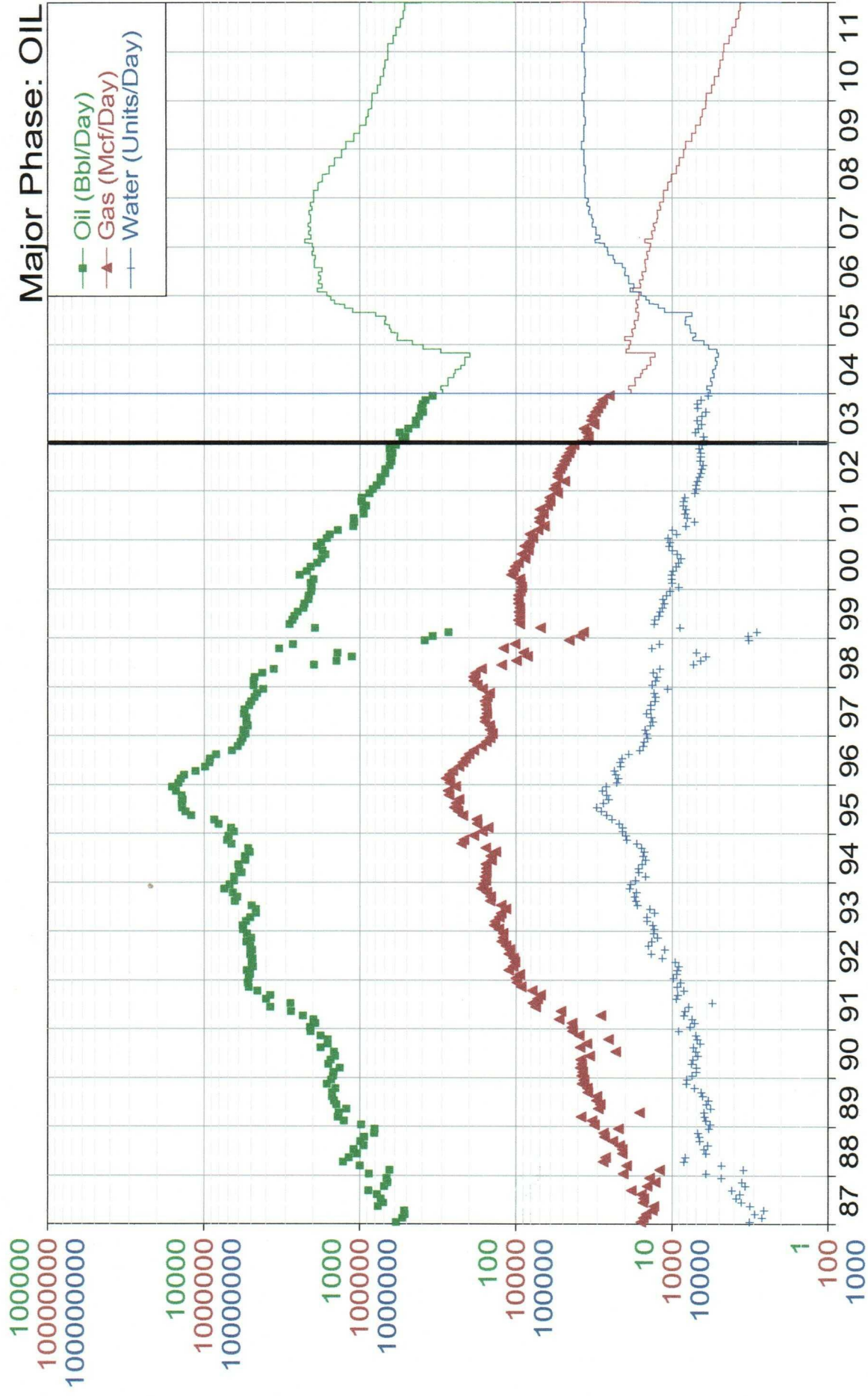
TYPE LOG- CANYON CARBONATE PAY
NORTH DAGGER DRAW PROPOSED UNIT AREA
EDDY COUNTY, NEW MEXICO

30015284140000

YATES PETROLEUM CORP
VANN 'APD' 1
660 FNL/660 FWL
TWP: 19 S - Range: 25 E - Sec. 21
Cum Oil All Zones: 455371 bbls
Cum Gas All Zones: 549296 MCF
Cum Water All Zones: 640689 bbls



NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
 EDDY COUNTY, NEW MEXICO
 HISTORICAL PRODUCTION CURVE
 AND PRODUCTION FORECAST



**NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST**

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
PRODUCTION HISTORY:									
08/31/76	3428	4090	3270						
09/30/76	8070	49444	17353						
10/31/76	5916	10696	17660						
11/30/76	3825	4563	14520						
12/31/76	2109	2563	13358						
01/31/77	3014	3407	16504						
02/28/77	3385	6240	13900						
03/31/77	4313	7000	15358						
04/30/77	4462	7170	15238						
05/31/77	3906	6666	15007						
06/30/77	3169	9370	14304						
07/31/77	2438	4150	18396						
08/31/77	1909	6267	18784						
09/30/77	1580	10590	20186						
10/31/77	1553	11366	32305						
11/30/77	1146	14606	24320						
12/31/77	2155	8641	16236						
01/31/78	1953	3672	14552						
02/28/78	1389	2240	11773						
03/31/78	1193	2736	14539						
04/30/78	1132	3552	14070						
05/31/78	1218	3301	14539						
06/30/78	994	3121	13601						
07/31/78	871	2736	14539						
08/31/78	504	1550	9380						
09/30/78	27	84	1407						
10/31/78	175	543	1407						
11/30/78	73	228	4690						
12/31/78	74	68	5628						
01/31/79									
02/28/79									
03/31/79									
04/30/79	22		3283						
05/31/79	16		3283						
06/30/79			4221						
07/31/79	6		469						
08/31/79									
09/30/79	1	827	3752						
10/31/79									
11/30/79									
12/31/79									
01/31/80									
02/28/80									
03/31/80									
04/30/80									
05/31/80									
06/30/80									
07/31/80									

NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
08/31/80									
09/30/80									
10/31/80			1502						
11/30/80									
12/31/80									
01/31/81									
02/28/81									
03/31/81									
04/30/81									
05/31/81									
06/30/81									
07/31/81			2884						
08/31/81			471						
09/30/81									
10/31/81									
11/30/81									
12/31/81									
01/31/82									
02/28/82	3060		10350						
03/31/82	340		5850						
04/30/82	761	212							
05/31/82	6355	1494	58148						
06/30/82	5577	3475	51030						
07/31/82	3308	5859	26828						
08/31/82	3213	2814	36564						
09/30/82	3141	7569	25222						
10/31/82	2462	4517	19745						
11/30/82	2565	2336	21366						
12/31/82	2256	1213	20552						
01/31/83	2516	1609	22921						
02/28/83	2139	953	17411						
03/31/83	2251	2443	25301						
04/30/83	2213	2113	15248						
05/31/83	2721	1525	23183						
06/30/83	2335	2382	19894						
07/31/83	2059	9269	17543						
08/31/83	1857	7899	15805						
09/30/83	1447	2953	20172						
10/31/83	1634	3337	20880						
11/30/83	3516	7071	32717						
12/31/83	2329	5578	21456						
01/31/84	6070	8620	51322						
02/28/84	17688	22076	77						
03/31/84	11836	17605	60616						
04/30/84	16065	25709	66097						
05/31/84	19389	39348	77929						
06/30/84	20447	40720	67301						
07/31/84	20759	43967	78594						
08/31/84	7985	14012	28485						
09/30/84	10851	27923	51615						

**NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST**

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
10/31/84	19768	37138	87073						
11/30/84	19285	39326	96270						
12/31/84	20484	45567	94486						
01/31/85	20615	37797	90437						
02/28/85	16685	33318	72922						
03/31/85	19087	36341	82151						
04/30/85	18616	35141	79697						
05/31/85	18802	39388	81164						
06/30/85	17868	36239	74811						
07/31/85	17690	36635	82987						
08/31/85	17048	42385	77184						
09/30/85	15598	39835	90899						
10/31/85	15848	40936	75324						
11/30/85	14679	39574	62248						
12/31/85	14716	39648	75222						
01/31/86	10920	29959	54939						
02/28/86	13446	47964	78508						
03/31/86	14003	48591	78255						
04/30/86	13613	45427	70676						
05/31/86	13430	46714	67024						
06/30/86	10187	33631	54011						
07/31/86	11290	43084	58521						
08/31/86	1216	10168	9669						
09/30/86	185		3154						
10/31/86	6769	6423	16939						
11/30/86	22107	47030	92542						
12/31/86	20933	33149	99420						
01/31/87	18220	49200	99011						
02/28/87	15016	42789	74517						
03/31/87	15954	45487	91833						
04/30/87	15597	40176	77585						
05/31/87	23812	40465	98177						
06/30/87	21269	46197	107859						
07/31/87	22905	47089	121005						
08/31/87	24161	48527	113928						
09/30/87	26586	54708	124031						
10/31/87	21634	44557	105610						
11/30/87	19954	38281	106906						
12/31/87	21031	43160	150571						
01/31/88	27144	63749	188056						
02/28/88	18843	34933	101454						
03/31/88	31046	60843	150447						
04/30/88	38616	82853	253558						
05/31/88	36603	82794	254941						
06/30/88	31380	62626	181671						
07/31/88	34090	64826	193792						
08/31/88	29442	67297	183289						
09/30/88	29899	71890	200046						
10/31/88	29162	83661	207458						
11/30/88	24343	82452	205832						

NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
12/31/88	25088	68194	180546						
01/31/89	30538	97446	176428						
02/28/89	35465	90869	169911						
03/31/89	43134	118567	193358						
04/30/89	41293	48334	187946						
05/31/89	37898	91911	175463						
06/30/89	42444	86503	181220						
07/31/89	45571	94724	181872						
08/31/89	47082	93812	198113						
09/30/89	45522	103717	195447						
10/31/89	44564	108617	222562						
11/30/89	49111	113231	243508						
12/31/89	47529	113594	249576						
01/31/90	46239	117520	230712						
02/28/90	41491	104985	196064						
03/31/90	41917	120401	217312						
04/30/90	48059	113760	225176						
05/31/90	48016	119037	228753						
06/30/90	43566	100810	206257						
07/31/90	45679	71543	218736						
08/31/90	55487	120628	226876						
09/30/90	48338	105756	198811						
10/31/90	50157	79479	214811						
11/30/90	53588	118609	211297						
12/31/90	64598	135024	282582						
01/31/91	64906	136045	237866						
02/28/91	54263	122968	201593						
03/31/91	61712	164015	230687						
04/30/91	69914	85838	253481						
05/31/91	85909	159824	257133						
06/30/91	113400	224638	234395						
07/31/91	87001	242322	172289						
08/31/91	124238	226566	292005						
09/30/91	113427	208888	276556						
10/31/91	141298	243398	260392						
11/30/91	155968	278155	278721						
12/31/91	162680	306224	273621						
01/31/92	160983	309022	305059						
02/28/92	147336	274350	271187						
03/31/92	164705	344372	287954						
04/30/92	145765	313575	271617						
05/31/92	154086	315394	296943						
06/30/92	146922	310967	347591						
07/31/92	157515	344196	420304						
08/31/92	152937	341411	346691						
09/30/92	152156	349558	425481						
10/31/92	166383	384547	417845						
11/30/92	149750	362458	373076						
12/31/92	164832	374455	407955						
01/31/93	174830	401092	404552						

NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
02/28/93	159370	388902	372347						
03/31/93	167818	422588	448215						
04/30/93	152198	385271	436517						
05/31/93	144380	386059	401283						
06/30/93	140139	350217	417325						
07/31/93	153707	385512	519421						
08/31/93	197628	456387	527255						
09/30/93	183699	435847	521364						
10/31/93	202526	476404	526878						
11/30/93	222572	501055	562448						
12/31/93	212944	500719	570896						
01/31/94	200501	486502	533473						
02/28/94	180531	444579	414205						
03/31/94	178362	481870	508668						
04/30/94	179255	465379	496535						
05/31/94	187598	483918	482952						
06/30/94	163309	430356	443233						
07/31/94	169605	452607	476912						
08/31/94	158707	417013	470201						
09/30/94	156939	469963	469155						
10/31/94	206118	697785	520614						
11/30/94	214443	649351	586244						
12/31/94	216729	577638	613689						
01/31/95	200024	509258	643594						
02/28/95	187877	422313	581446						
03/31/95	250974	549892	676901						
04/30/95	257968	538298	728754						
05/31/95	374586	678954	812122						
06/30/95	395897	708710	851237						
07/31/95	429670	770951	949393						
08/31/95	431949	749978	856006						
09/30/95	412142	695978	766101						
10/31/95	431602	835757	813672						
11/30/95	454832	822582	839649						
12/31/95	496326	760429	818902						
01/31/96	455954	827141	704574						
02/28/96	409330	813397	642551						
03/31/96	417426	832590	710247						
04/30/96	341200	763803	703189						
05/31/96	305485	720795	661494						
06/30/96	277088	658662	647988						
07/31/96	283589	650147	650216						
08/31/96	258971	620162	589718						
09/30/96	198398	560991	485594						
10/31/96	188373	516950	474709						
11/30/96	175317	464819	452593						
12/31/96	175674	455294	445990						
01/31/97	168292	440411	452404						
02/28/97	156722	412160	418742						
03/31/97	162440	458877	427975						

**NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST**

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
04/30/97	160871	475222	398945						
05/31/97	166000	490686	421683						
06/30/97	167048	461408	439884						
07/31/97	171533	482338	424641						
08/31/97	159001	486744	424267						
09/30/97	149810	475842	386651						
10/31/97	147718	473112	393991						
11/30/97	137734	444809	390895						
12/31/97	129554	509691	332657						
01/31/98	149011	549842	416619						
02/28/98	134674	522337	358320						
03/31/98	147695	581256	386033						
04/30/98	127533	549822	396149						
05/31/98	111532	516035	371673						
06/30/98	59506	369838	218603						
07/31/98	44098	307187	203364						
08/31/98	35188	261146	187520						
09/30/98	42160	268368	210033						
10/31/98	103019	371831	420039						
11/30/98	81095	305622	361193						
12/31/98	11964	141669	100693						
01/31/99	10647	120919	101045						
02/28/99	7603	103379	80300						
03/31/99	60435	215842	275179						
04/30/99	84864	284178	391346						
05/31/99	84280	299951	401512						
06/30/99	79475	284574	364996						
07/31/99	78166	298452	371263						
08/31/99	71605	294425	358343						
09/30/99	68386	290765	337208						
10/31/99	66634	299095	354382						
11/30/99	64286	290048	324984						
12/31/99	64064	292405	320088						
01/31/00	63699	286148	282461						
02/28/00	60628	273726	291103						
03/31/00	61837	294101	314588						
04/30/00	73623	322580	303287						
05/31/00	68389	323858	307945						
06/30/00	62192	304863	282609						
07/31/00	58501	299252	281578						
08/31/00	54704	270576	272983						
09/30/00	50133	275517	278230						
10/31/00	53918	258330	308532						
11/30/00	57111	264808	314513						
12/31/00	55030	255590	319657						
01/31/01	50797	242679	328901						
02/28/01	44009	228250	261063						
03/31/01	43104	223974	309718						
04/30/01	33350	197923	245794						
05/31/01	33830	219272	222602						

**NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST**

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
06/30/01	33151	212542	239948						
07/31/01	29404	208309	257621						
08/31/01	29603	218135	254135						
09/30/01	27543	188137	254923						
10/31/01	30408	188131	263397						
11/30/01	29253	183128	248992						
12/31/01	26984	167748	222256						
01/31/02	25750	177127	217118						
02/28/02	21993	156430	196896						
03/31/02	22609	150427	213612						
04/30/02	22263	162211	200827						
05/31/02	21340	167653	203771						
06/30/02	20720	156734	194886						
07/31/02	20175	157414	196152						
08/31/02	19506	151736	205086						
09/30/02	19212	142530	196390						
10/31/02	19289	141714	204120						
11/30/02	19410	134361	201377						
12/31/02	18274	132051	199176						
01/31/03	16562	111115	193686						
02/28/03	14365	96448	176613						
03/31/03	17236	109658	220476						
04/30/03	14771	110260	204218						
05/31/03	13642	98239	201185						
06/30/03	13155	99039	206630						
07/31/03	12993	100948	199780						
08/31/03	12245	95847	188880						
09/30/03	12189	89764	206376						
10/31/03	12363	88869	213494						
11/30/03	11427	83740	195288						
12/31/03	10623	78129	181891						
FORECAST:									
01/31/04	9108	56448	175962				9108	56448	175962
02/28/04	8785	54996	173596				8785	54996	173596
03/31/04	8420	52953	171261				8420	52953	171261
04/30/04	8131	51614	168957				8131	51614	168957
05/31/04	7727	48955	166684				7727	48955	166684
06/30/04	7322	46238	164441				7322	46238	164441
07/31/04	6953	44886	162230				6953	44886	162230
08/31/04	6581	42415	160047				6581	42415	160047
09/30/04	6360	41366	157895				6360	41366	157895
10/31/04	6070	39620	155770				6070	39620	155770
11/30/04	5823	37837	153676	3273	21139	0	9096	58976	153676
12/31/04	5455	35756	151607	6759	22408	27597	12214	58164	179204
01/31/05	5116	33825	149569	9111	23325	43119	14227	57150	192688
02/28/05	4868	32410	147556	11206	23740	58058	16074	56150	205614
03/31/05	4571	30422	145572	13079	24718	71757	17650	55140	217329
04/30/05	4222	27663	143613	14721	26437	84216	18943	54100	227829

**NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST**

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
05/31/05	3965	25550	141681	16009	27502	95437	19974	53052	237118
06/30/05	3694	23766	139776	17035	28219	105418	20729	51985	245194
07/31/05	3572	23212	137895	17635	27678	114160	21207	50890	252055
08/31/05	3450	22670	136040	21131	27727	94759	24581	50397	230799
09/30/05	3341	22138	134211	30002	28853	199959	33343	50991	334170
10/31/05	3230	21625	132405	35688	29370	245497	38918	50996	377902
11/30/05	3130	21121	130624	40637	29758	288271	43767	50879	418895
12/31/05	2923	20348	128866	44669	30238	326573	47592	50586	455439
01/31/06	2716	18481	127133	47756	31662	360625	50472	50143	487758
02/28/06	2625	18049	125423	50028	31551	391314	52653	49600	516737
03/31/06	2481	16995	123736	51728	31948	418865	54209	48943	542601
04/30/06	2322	15974	122071	52798	32217	443279	55120	48191	565350
05/31/06	2186	15001	120430	53227	32342	464554	55413	47343	584984
06/30/06	2092	13739	118809	52963	32651	482691	55055	46390	601500
07/31/06	2028	13436	117211	52059	31916	497689	54087	45352	614900
08/31/06	1963	13139	115634	58899	32697	524229	60862	45836	639863
09/30/06	1905	12851	114079	56941	31778	582278	58846	44629	696357
10/31/06	1844	12570	112544	57916	31439	620490	59760	44009	733034
11/30/06	1716	11770	111030	58948	31656	657699	60664	43426	768729
12/31/06	1662	11511	109537	59882	31323	693224	61544	42834	802761
01/31/07	1569	10445	108063	60828	31831	727012	62397	42276	835075
02/28/07	1522	10224	106610	61590	31477	758858	63112	41701	865468
03/31/07	1476	10002	105175	62181	31107	788712	63657	41109	893887
04/30/07	1433	9789	103761	62606	30722	816574	64039	40511	920335
05/31/07	1391	9581	102364	62872	30308	842444	64263	39889	944808
06/30/07	1349	9380	100988	62964	29891	866321	64313	39271	967309
07/31/07	1301	8073	99629	62903	30529	888206	64204	38602	987835
08/31/07	1262	7898	98290	62666	30054	908100	63928	37952	1006390
09/30/07	1122	7422	96967	62367	29840	926000	63489	37262	1022967
10/31/07	1024	6659	95662	61853	29910	941997	62877	36569	1037659
11/30/07	993	6512	94376	61068	29330	956450	62061	35842	1050826
12/31/07	965	6365	93106	60075	28731	969446	61040	35096	1062552
01/31/08	941	6222	91854	58810	28038	981027	59751	34260	1072881
02/29/08	913	6088	90618	57654	27493	991346	58567	33581	1081964
03/31/08	888	5952	89399	55882	26693	1000441	56770	32645	1089840
04/30/08	863	5820	88196	54782	26179	1008316	55645	31999	1096512
05/31/08	840	5694	87010	52439	25291	1014969	53279	30985	1101979
06/30/08	816	5567	85840	51408	24805	1020400	52224	30372	1106240
07/31/08	748	4666	84685	48535	24605	1024609	49283	29271	1109294
08/31/08	665	3882	83546	47642	24809	1027596	48307	28691	1111142
09/30/08	650	3809	82422	44154	23698	1029360	44804	27507	1111782
10/31/08	631	3729	81313	43285	23233	1030119	43916	26962	1111432
11/30/08	616	3655	80219	39786	22146	1030737	40402	25801	1110956
12/31/08	599	3582	79140	39002	21708	1031428	39601	25290	1110568
01/31/09	586	3513	78076	36025	20743	1032184	36611	24256	1110260
02/28/09	569	3441	77025	35317	20334	1032982	35886	23775	1110007
03/31/09	503	2647	75990	32898	20219	1033812	33401	22866	1109802
04/30/09	489	2589	74967	32250	19825	1034677	32739	22414	1109644
05/31/09	477	2532	73958	30271	19092	1035572	30748	21624	1109530
06/30/09	387	1856	72964	29752	19340	1036501	30139	21196	1109465

**NORTH DAGGER DRAW UPPER PENNSYLVANIAN UNIT
EXHIBIT D
DETAIL OF PRODUCTION HISTORY AND FORECAST**

	PRIMARY PRODUCTION			INCREMENTAL ENHANCED RECOVERY			TOTAL		
	OIL	GAS	WATER	OIL	GAS	WATER	OIL	GAS	WATER
07/31/09	377	1818	71982	28277	18699	1037462	28654	20517	1109444
08/31/09	370	1781	71014	27716	18330	1038456	28086	20111	1109470
09/30/09	361	1744	70059						
10/31/09	352	1709	69116						
11/30/09	344	1674	68186						
12/31/09	336	1639	67270						
01/31/10	330	1607	66364						
02/28/10	322	1573	65471						
03/31/10	312	1542	64591						
04/30/10	309	1510	63722						
05/31/10	300	1480	62865						
06/30/10	294	1450	62019						
07/31/10	287	1421	61145						
08/31/10	279	1148	60282						
09/30/10	275	1030	59419						
10/31/10	266	877	58556						
11/30/10	260	732	57693						
12/31/10	258	580	56830						
TOTAL									
FORECAST:	191577	1234260	8886368	2523958	1573302	38753872	2710650	2785846	46626652