

# Matador Production Company

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240

Telephone 972.371.5200 • Fax 972.371.5201

[mrandle@matadorresources.com](mailto:mrandle@matadorresources.com)

RECEIVED OCD

2016 MAR -3 P 2:33

**Melissa Randle**  
Senior Landman, Permian Basin

March 2, 2016

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

Attention: David Catanach  
Division Director

R: 6246  
C: 6775

Re: 2016 PLAN OF DEVELOPMENT  
AND OPERATIONS  
YOUNG DEEP UNIT  
T-18S, R-32E, N.M.P.M.  
Lea County, New Mexico

Ladies & Gentlemen:

Attached is a copy of the 2016 Plan of Development and Operations for the Young Deep Unit, with pertinent enclosures, which has been submitted to the Bureau of Land Management for approval.

Matador Production Company respectfully requests your approval of this 2016 Plan of Development.

Sincerely,



Melissa Randle  
Senior Landman, Permian Basin

MVR/vw  
Enclosures  
Young Deep Unit 2016 POD-OCD Cvr Ltr-March 2016.doc/Land: Young Deep Unit

# Matador Production Company

One Lincoln Centre • 5400 LBJ Freeway • Suite 1500 • Dallas, Texas 75240

Telephone 972.371.5200 • Fax 972.371.5201

---

February 29, 2016

Bureau of Land Management  
Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220

Attention: Deputy Minerals Manager for Oil and Gas

**Re: Young Deep Unit**  
**Contract #14-08-0001-18042**  
**T-18S, R-32E, N.M.P.M.**  
**Lea County, New Mexico**  
**2015 Plan of Development and Operation**

Ladies & Gentlemen:

Matador Production Company ("Matador") as Unit Operator, submits its 2016 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. Matador took over operations from Harvey E. Yates Company ("HEYCO") in March 2015 when the operated holdings of the latter company were merged into MRC Delaware Resources, LLC, an affiliate of Matador Production Company. This plan covers the Participating Areas for the Bone Spring, Delaware and Wolfcamp formations in the Young Deep Unit (the "Unit").

Attachment 1 provides a complete list of all the wells in the Young Deep Unit, including the API numbers, completion date, producing zone and current status. All the wells are classified as producing wells, with the exception of the 3 water injection wells (WIW) utilized for Bone Spring Carbonate pressure maintenance, as noted on the list. Maps are included which show well locations along with the roads and layout of pipelines in the field. A general Land Plat is also provided for additional information as Attachment 2.

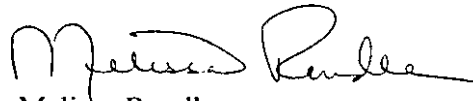
The facilities and batteries associated with the Unit are provided as Attachment 3. This attachment details the wells and facility into which each well is producing.

Attachment 4 provides a summary of production from the Young Deep Unit over the last two years. Cumulative production since the field's discovery in 1980 is also provided. A graph of the production history for the entire unit, as well as individual graphs for each reservoir are also included.

Since the 2015 merger, Matador has been and continues to evaluate the potential of the Unit. The tight Bone Spring sands in the northern Delaware Basin of Southeast New Mexico, from which the Unit produces (represented by the attached Type Log of the Young Deep Unit #1) have seen aggressive industry activity in the last five years driven by horizontal drilling and advances in fracture stimulation. Matador is an experienced horizontal operator and believes the Second Bone Spring sand, in particular, is a viable target for drilling in the Young Deep Unit. As previously indicated on Attachment 3 and summarized on Attachment 5 in the Summary of Activity, HEYCO submitted an APD for drilling the Young Deep Unit #40H, a horizontal test in the S/2 of S/2 of Section 10, Township 18S, Range 32E. This well, originally scheduled for drilling in late 2014, was postponed because of the merger. Matador has filed for and received an extension to give it the necessary time to evaluate the economic potential of this Unit. In fact, as documented on Attachment 5, Matador is currently evaluating the feasibility of drilling this well and, at least, one other well within the Young Deep Unit.

Based on the information submitted herewith, Matador respectfully requests the Bureau of Land Management approve this 2016 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,  
Matador Production Company



Melissa Randle  
Senior Landman, Permian Basin

MVR/GKY/vw  
Enclosures

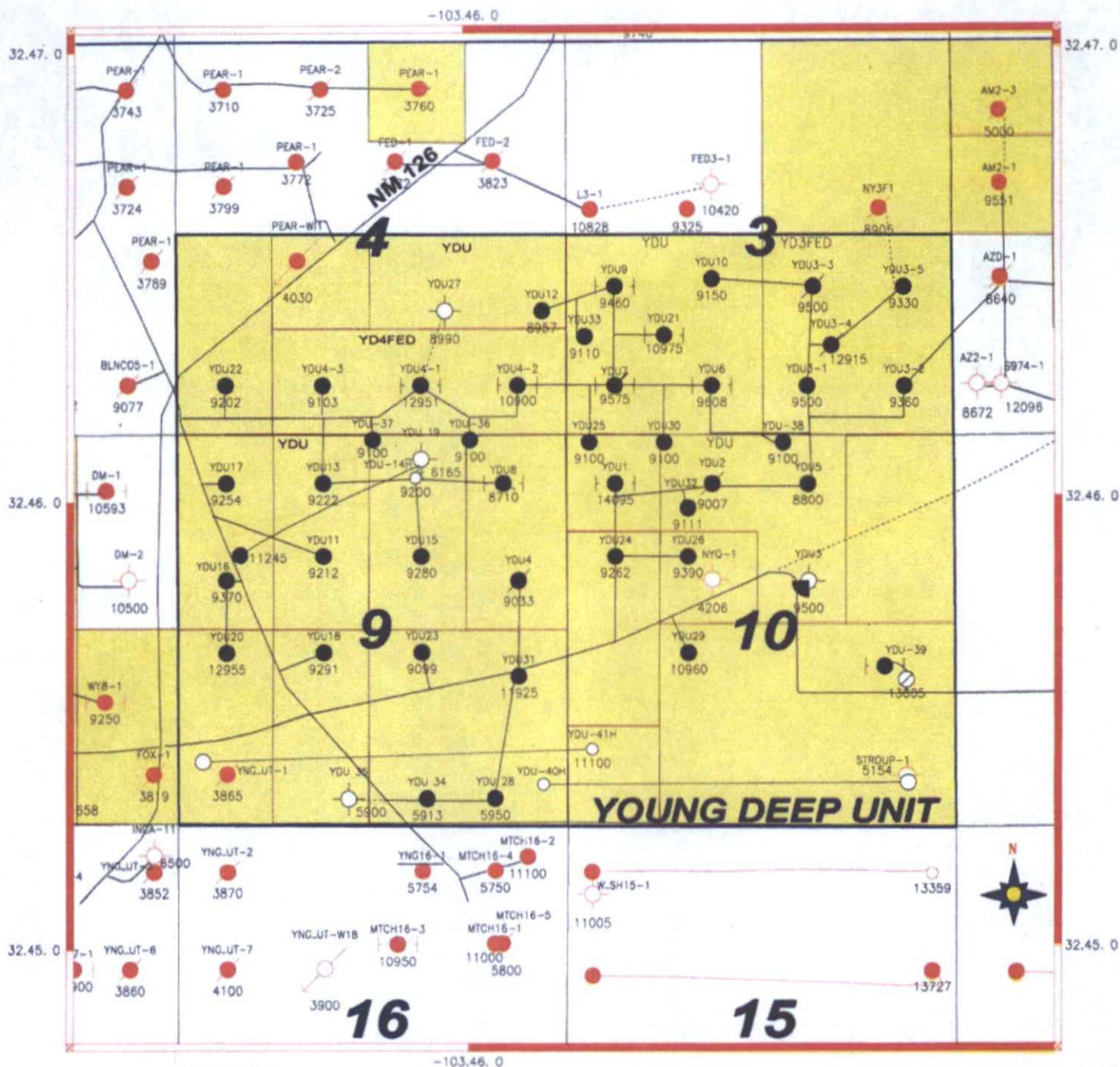
xc: Oil Conservation Division (w/encl.)  
1220 S. St. Francis Dr.  
Santa Fe, New Mexico 87505  
Attn: Sr. Petroleum Geologist

**ATTACHMENT 1 - YOUNG DEEP UNIT POD  
WELL STATUS AS OF 1/1/2016**

#	WELL NAME AND NUMBER	API NUMBER	COMP DATE	PROD ZONE	STATUS
1.	YOUNG DEEP UNIT 1	30025266400003	10/30/1990	WOLFCAMP	ACTIVE
2.	YDU 2	30025271210000	8/17/2005		P&A
3.	YDU 3	30025272290000	12/04/1984		D&A - PLUGGED
4.	YDU 4	30025273000000	7/2/1981		P&A
5.	YDU 5	30025273360000	10/31/1983	BONE SPRING	ACTIVE-WIW
6.	YDU 6	30025274770001	4/21/1994	BONE SPRING	ACTIVE
7.	YDU 7	30025275470001	11/29/1994	BONE SPRING	ACTIVE
8.	YDU 8	30025275350201	11/19/1987	BONE SPRING	ACTIVE
9.	YDU 9	30025284000001	10/23/2009	BONE SPRING	ACTIVE
10.	YDU 10	30025284730000	2/3/1984	BONE SPRING	ACTIVE
11.	YDU 11	30025287930001	12/25/1993	BONE SPRING	ACTIVE
12.	YDU 12	30025308660000	4/6/1990	BONE SPRING	ACTIVE
13.	YDU 13	30025289660000	12/20/1985	BONE SPRING	ACTIVE
14.	YDU 14H	30025290150101	12/16/2005		P&A 8/2013
15.	YDU 15	30025290460000	7/5/1985	BONE SPRING	ACTIVE
16.	YDU 16	30025290470000	3/30/1993	BONE SPRING	ACTIVE-WIW
17.	YDU 17	30025290600000	4/17/1985	BONE SPRING	ACTIVE
18.	YDU 18	30025313590000	9/27/1991	BONE SPRING	ACTIVE
19.	YDU 19	30025292780000	6/16/1986		D&A - PLUGGED
20.	YDU 20	30025309240000	11/21/1990	BONE SPRING	ACTIVE
21.	YDU 21	30025322880001	9/4/2009	BONE SPRING	ACTIVE
22.	YDU 22	30025292530000	7/6/1985	BONE SPRING	ACTIVE
23.	YDU 23	30025298960000	1/9/1988	BONE SPRING	ACTIVE
24.	YDU 24	30025307830000	7/26/1990	BONE SPRING	ACTIVE
25.	YDU 25	30025331730000	1/22/1996	BONE SPRING	ACTIVE
26.	YDU 26	30025309520000	10/5/1990	BONE SPRING	ACTIVE
27.	YDU 27	30025309760000	12/15/1993		D&A - PLUGGED
28.	YDU 28	30025310480000	4/3/1992	DELAWARE	ACTIVE
29.	YDU 29	30025312990000	9/12/1991	BONE SPRING	ACTIVE
30.	YDU 30	30025331740000	12/22/1995	BONE SPRING	ACTIVE
31.	YDU 31	30025310930000	5/13/1991	BONE SPRING	ACTIVE
32.	YDU 32	30025333150000	4/14/1996	BONE SPRING	ACTIVE
33.	YDU 33	30025334620000	8/24/1986	BONE SPRING	ACTIVE
34.	YDU 34	30025314670000	12/24/1991	DELAWARE	ACTIVE
35.	YDU 35	30025315960000	6/12/1992		D&A - PLUGGED
36.	YDU 36	30025336420000	11/28/1996	BONE SPRING	ACTIVE
37.	YDU 37	30025336430000	12/14/1996	BONE SPRING	ACTIVE
38.	YDU 38	30025338640000	12/25/1997	BONE SPRING	ACTIVE
39.	YDU 39	30025381790001	4/6/2007	BONE SPRING	ACTIVE-RECOMPL 2012
40.	YDU 40H	30025408200000		BONE SPRING	PROPOSED NEW DRILL
41.	YDU 41H			BONE SPRING	STAKED NEW DRILL
42.	YOUNG DEEP UNIT 3 FED 1	30025273690000	12/1/1990	BONE SPRING	ACTIVE-WIW
43.	YDU 3 FED-2	30025289070000	11/19/1984	BONE SPRING	ACTIVE
44.	YDU 3 FED-3	30025275340000	8/6/1993		P&A
45.	YDU 3 FED-4	30025284810000	4/18/1984		P&A
46.	YDU 3 FED-5	30025287180000	6/30/1984	BONE SPRING	ACTIVE
47.	YDU 4 FED-1	30025268130000	8/8/1996		P&A
48.	YDU 4 FED-2	30025276790102	5/7/1995	BONE SPRING	ACTIVE
49.	YDU 4 FED-3	30025292680000	10/3/1985	BONE SPRING	ACTIVE







ACTIVE ROAD

INACTIVE OR RECLAIMED ROAD

Scale 1:24000.



# LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- Gas Well
- Location - Active or Proposed
- Oil Well
- Plugged and Abandoned Oil Well
- Oil Well converted to water injector
- Oil Well Workover
- Gas Well Plugged and Abandoned
- Injector - Plugged

MATADOR PRODUCTION COMPANY

YOUNG DEEP UNIT  
T-18-S, R-32-E, LEA COUNTY, NM  
Roads

Gordon Yahney

1" = 2,000 ft.

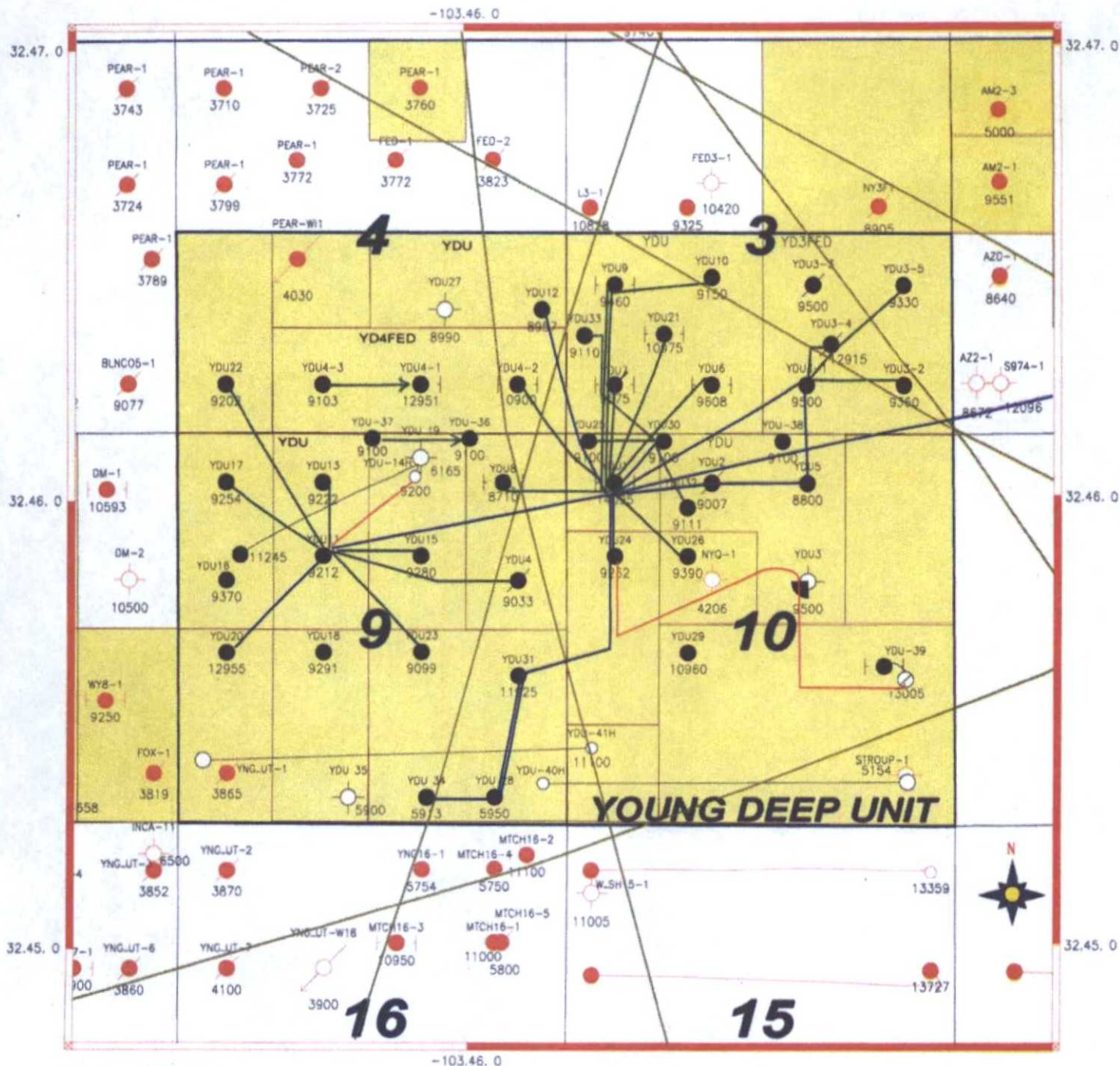
2/16/2016

YDU.YDROADS

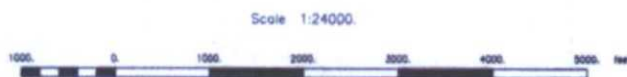
Scale 1:24000.

YDU.POD3.gpf





- YDU OIL GATHERING LINES
- YDU OIL GATHERING LINES
- 3RD PARTY PIPELINES
- YDU PRESSURE MAINTENANCE SYSTEM WATER LINES
- YDU GAS GATHERING LINES



#### LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- Gas Well
- Location - Active or Proposed
- Oil Well
- Plugged and Abandoned Oil Well
- Oil Well converted to water injector
- Oil Well Workover
- Gas Well Plugged and Abandoned
- Injector - Plugged

#### MATADOR PRODUCTION COMPANY

#### YOUNG DEEP UNIT T-18-S, R-32-E, LEA COUNTY, NM Pipelines and Flowlines

Gordon Yahney

1" = 2,000 ft.

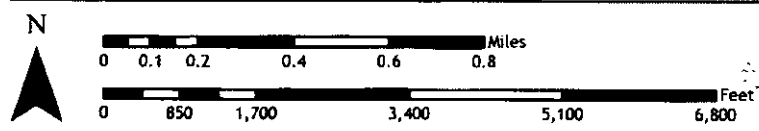
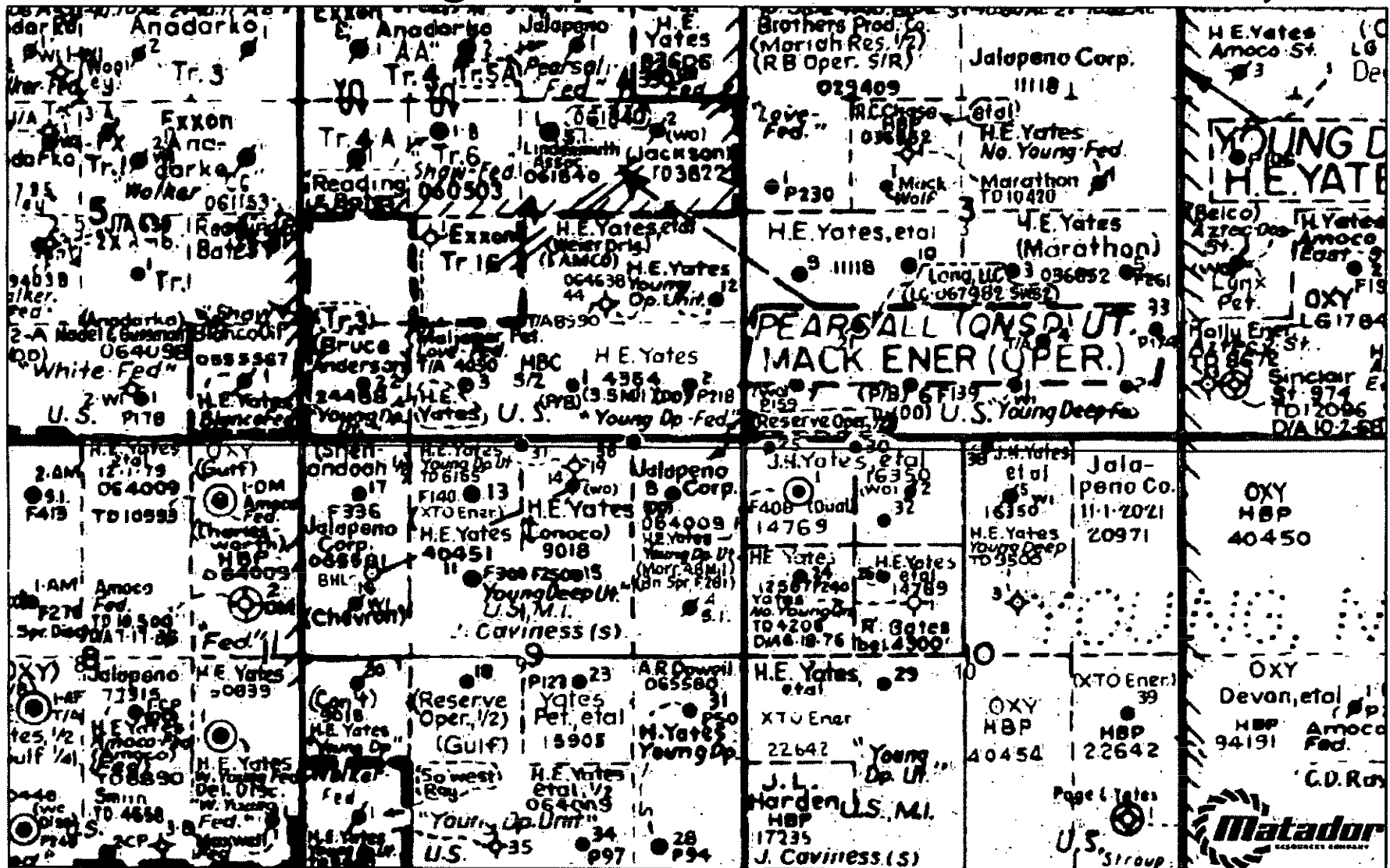
2/16/2016

YDU.YDUPIPE

Scale 1:24000.

YDU.POD4.gpf

# Attachment 2- Young Deep Unit Land Plat as of Feb. 29, 2016



Author: Matador Production Company

Date: 2/29/2016



# ATTACHMENT 3 - SUMMARY OF PRODUCTION FACILITIES

## YDU WELLS WITH INDIVIDUAL TANKS

YOUNG DEEP UNIT 1

YDU 12

YDU 18

YDU 20

YDU 23

YDU 24

YDU 25

YDU 28

YDU 29

YDU 30

YDU 31

YDU 32

YDU 33

YDU 34

YDU 36

YDU 37

YDU 38

YDU 39

## YDU WELLS GOING TO YDU 1 - BATTERY

YDU 6

YDU 7

YDU 8

YDU 9

YDU 10

YDU 21

YDU 26

YDU 4 FED-2

## YDU WELLS GOING TO YDU 25 - BATTERY

YDU 25

YDU 30

YDU 32

YDU 33

## YDU WELLS GOING TO YDU 36 - BATTERY

YDU 36

YDU 37

## YDU WELLS GOING TO YDU 11 - BATTERY

YDU 4

YDU 11

YDU 13

YDU 15

YDU 17

YDU 22

YDU 23

## YDU WELLS GOING TO YDU 3 FED 1 - BATTERY

YDU 3 FED 2

YDU 3 FED 4

YDU 3 FED 5

## YDU WELLS GOING TO YDU 4 FED 1 - BATTERY

YDU 4 FED 3

## YDU WELLS BY PARTICIPATING AREA

MORROW:

None

WOLFCAMP:

YDU 1

DELAWARE:

YDU 28

YDU 34

BONE SPRING:

ALL OTHERS

## ATTACHMENT 4 - PRODUCTION DATA

### MONTHLY SUMMARY PRODUCTION - YOUNG DEEP UNIT (Multiple Wells Active)

Operator: Matador Production Location: T18S-R32E Lea County, New Mexico

MORROW; PENNSYLVANIAN (GAS) - INACTIVE

WOLFCAMP; PERMIAN (OIL) - ACTIVE

BONE SPRING; PERMIAN (OIL AND INJECTION) - ACTIVE

DELAWARE; PERMAIN (OIL) - ACTIVE

2014 MONTH	OIL/COND	GAS	WATER	# WELLS	DAYS ON	INJ	# WELLS
Jan	5007	14058	15741	34	1025	33652	3
Feb	4039	12647	14684	34	928	38568	3
Mar	4515	14155	14778	34	1006	31312	3
Apr	4413	13946	13845	34	992	38174	3
May	4366	13963	13549	34	1020	41608	3
Jun	4586	13761	14320	34	992	38704	3
Jul	4728	14060	13983	34	1020	38430	3
Aug	4552	13931	10402	34	1004	26125	3
Sep	4218	9184	8228	34	937	29309	3
Oct	4481	12790	8369	34	935	35440	3
Nov	3846	11443	11223	34	931	36629	3
Dec	4243	12323	15115	33	990	34133	3
2014 Total:	52,994	156,261	154,237		11,780	422,084	

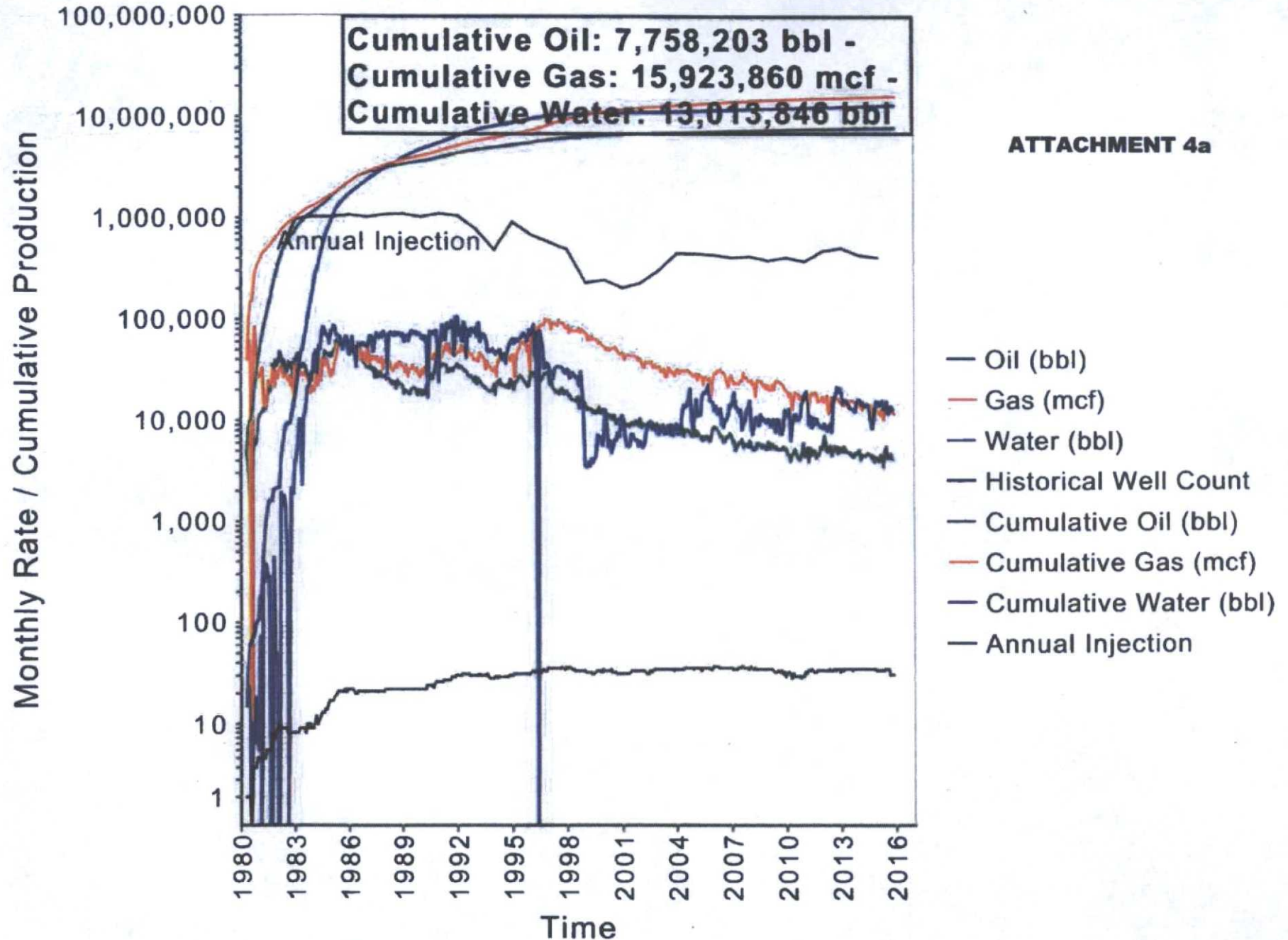
2015 MONTH	OIL/COND	GAS	WATER	# WELLS	DAYS ON	INJ	# WELLS
Jan	4120	11791	14921	34	987	41778	3
Feb	3884	11122	13842	34	885	40392	3
Mar	4503	12637	14762	34	989	39493	3
Apr	4338	10033	15428	34	951	40104	3
May	3432	11999	12792	34	777	34893	3
Jun	4992	13813	13652	34	958	36993	3
Jul	5437	13785	15132	34	995	38543	3
Aug	4182	12214	11458	34	938	33131	3
Sep	4189	12405	11798	30	864	31471	3
Oct	4606	11908	13571	30	901	33282	3
Nov	4090	11395	12608	30	872	31659	3
Dec							

2015 Total: 47,773 133,102 149,964 10,117 401,739

Cum to 1/1/2016

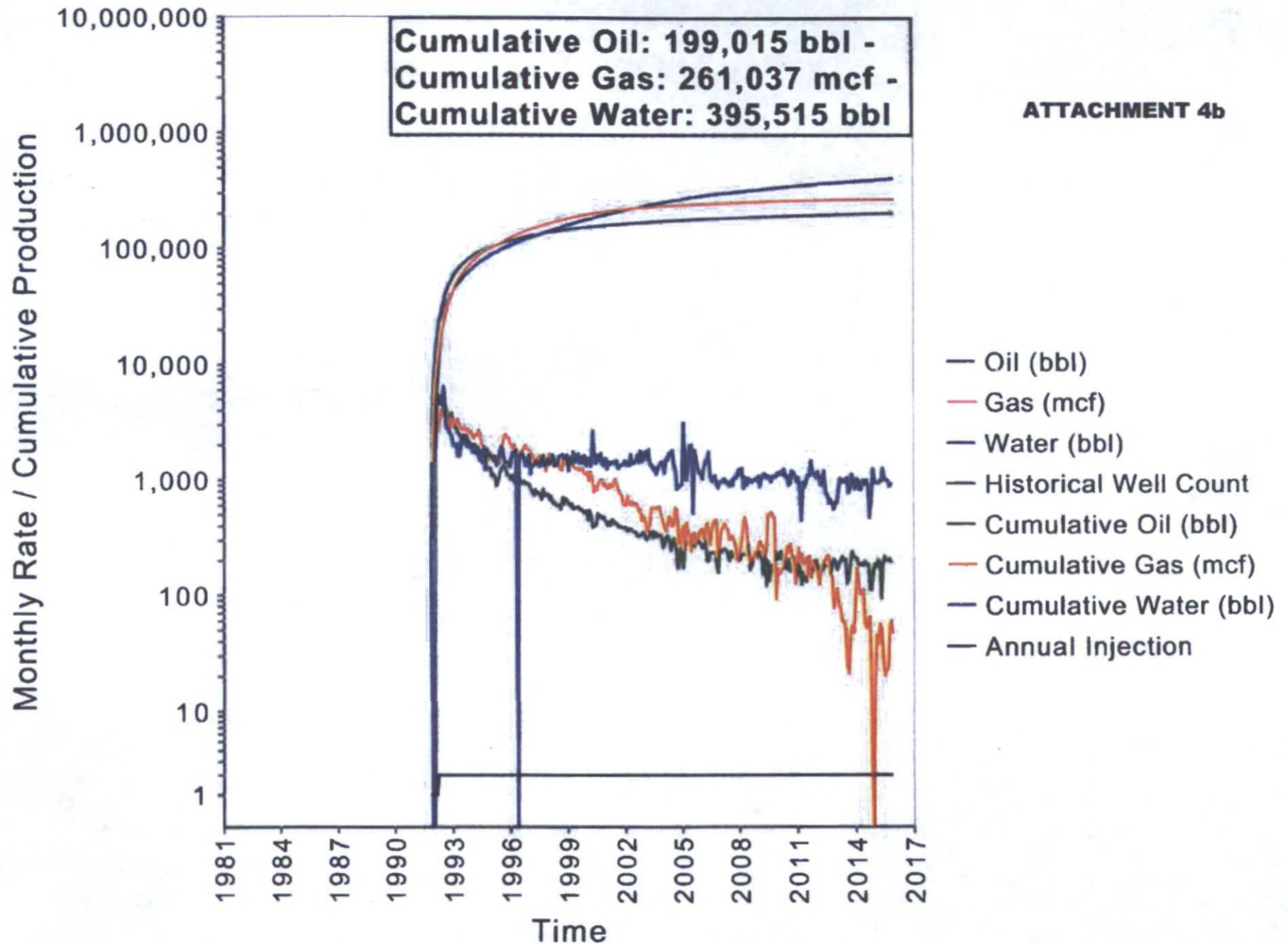
TOTAL PROD FROM 5/1/1980 7,758,203 15,923,860 13,013,846

## UNIT PRODUCTION SUMMARY



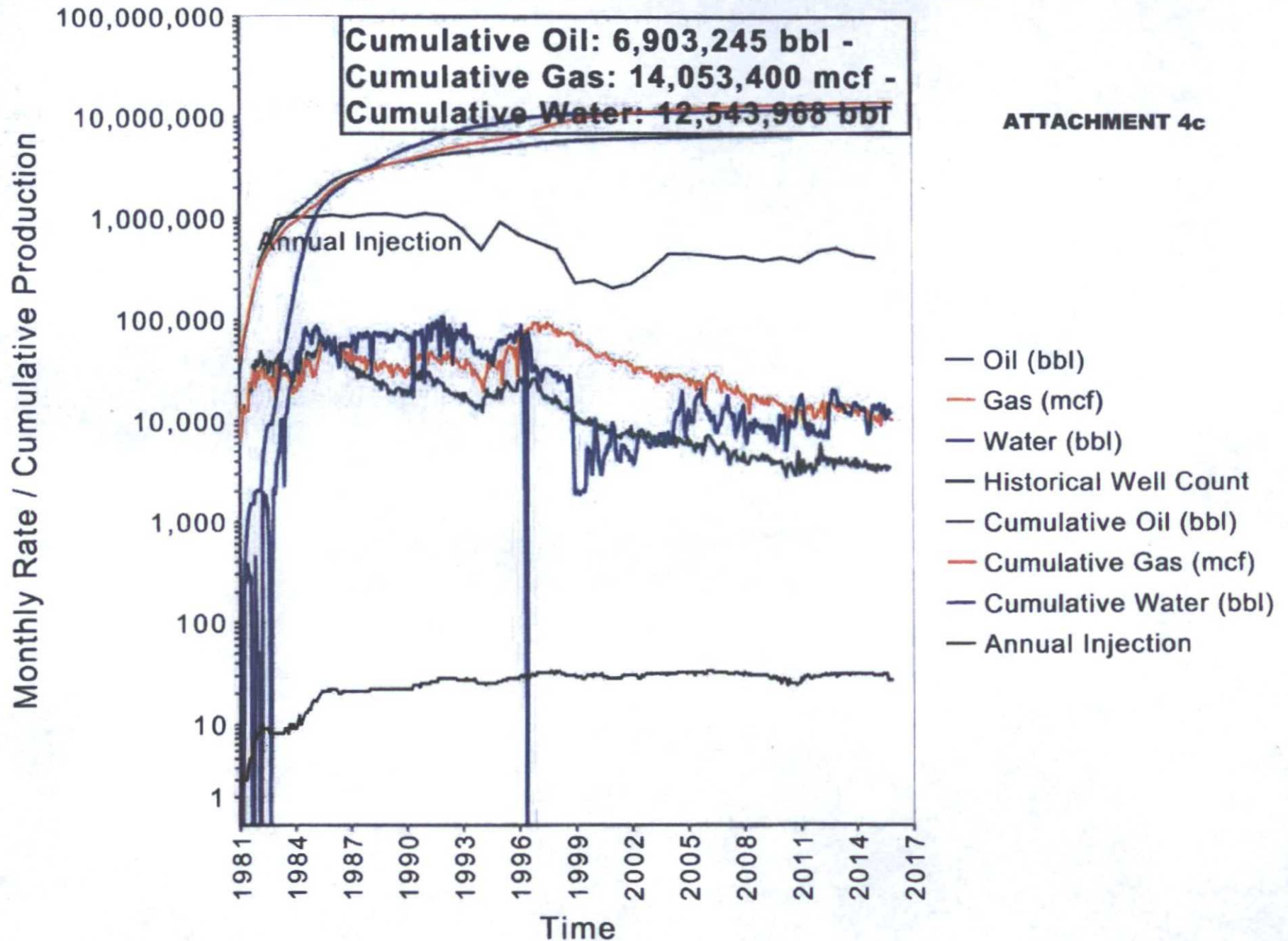
## DELAWARE PRODUCTION SUMMARY

ATTACHMENT 4b

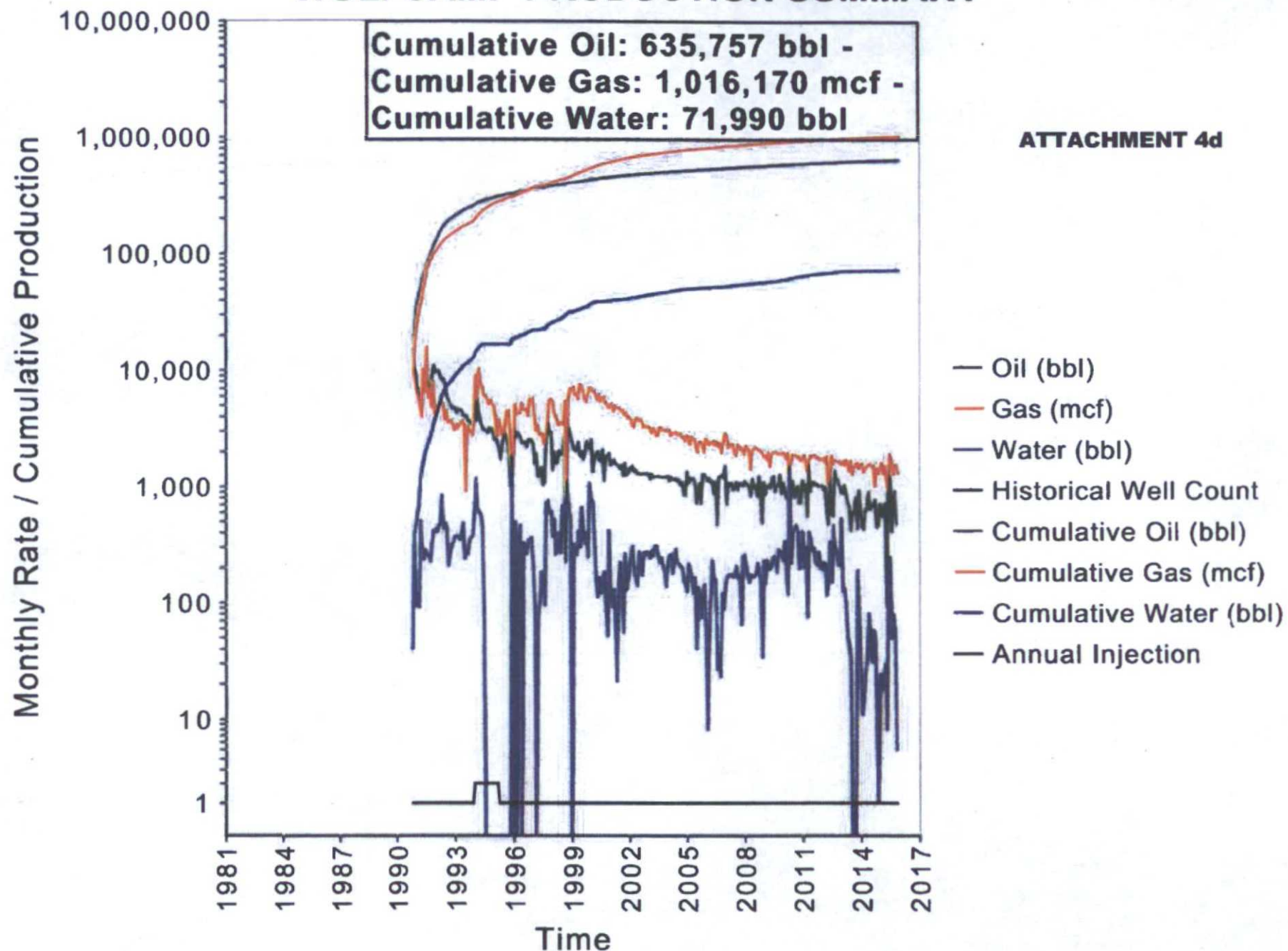




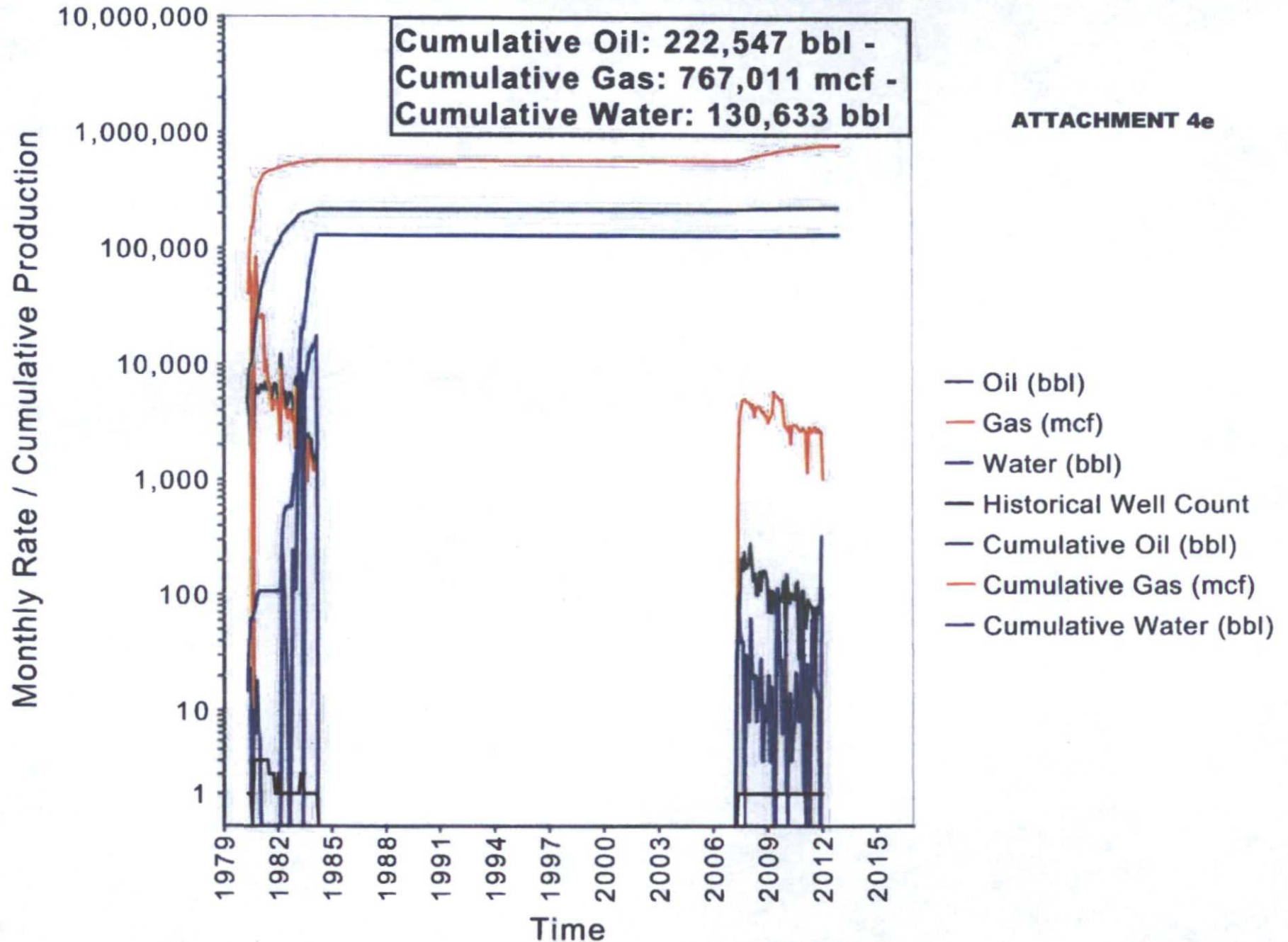
## BONE SPRING PRODUCTION SUMMARY



# WOLFCAMP PRODUCTION SUMMARY



## MORROW PRODUCTION SUMMARY





#### ATTACHMENT 5 - SUMMARY OF ACTIVITY

2011 UNIT ACTIVITY	YDU 3:FED 4 - P&A, YDU 4 - P&A
2012 UNIT ACTIVITY	YDU #39 RECOMPLETED IN TO BONE SPRING FM. 1/2012
2013 UNIT ACTIVITY	YDU #14H - P&A 8/2013
2014 UNIT ACTIVITY	RECLAMATION OF YDU 14H WELL SITE
2015 UNIT ACTIVITY	PROPOSED YDU 40H HORIZONTAL 2ND BONE SPRING SAND TEST POSTPONED DUE TO LOW COMMODITY PRICES
2016 PLANNED ACTIVITY	<ul style="list-style-type: none"><li>- EVALUATE THE ECONOMICS OF DRILLING YDU 40H HORIZONTAL 2ND BONE SPRING SAND TEST</li><li>- EVALUATE HORIZONTAL FOR OFFSET DEVELOPMENT - #41H</li><li>- REVIEWING PRODUCTION EQUIPMENT AND FLOW LINE REVISIONS FOR GREATER EFFICIENCY</li></ul>





Harvey E. Yates Company  
HEYCO LNG, LLC  
Permian Pavilion, LLC

February 26, 2015

RECEIVED OOD

2015 MAR -2 P 3: 15

Bureau of Land Management  
Carlsbad Field Office  
620 E. Greene St.  
Carlsbad, New Mexico 88220

D16246  
C16775

Attention: Deputy Minerals Manager for Oil and Gas

Re: Young Deep Unit  
Contract #14-08-0001-18042  
T-18S, R-32E, N.M.P.M.  
Lea County, New Mexico  
2015 Plan of Development  
and Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO) as Unit Operator, submits its 2015 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Participating Areas for the Bone Spring, Delaware, Wolfcamp and Morrow Formations in the Young Deep Unit.

In this regard, we are enclosing a current unit map showing all existing wells, roads and flowlines, and maps showing the current participating area boundaries. Maps showing confidential geologic data pertinent to the producing formations have changed little since the 2014 POD but are also enclosed. A complete updated well listing showing the status of all wells thru 1/2015 is also included.

Nearly all of the Young Deep Unit wells produce from the Bone Spring Formation and are assigned to Young, North Pool. Exceptions are the three water injection wells (YDU #5, YDU 3 Fed. #1 and YDU #16 utilized for Bone Spring Carbonate pressure maintenance, two wells producing from the Delaware Mountain Group (YDU #28 and #34), and one current Wolfcamp producer (YDU #1). The following unit wells have been permanently plugged: YDU #3 (12/4/1984), YDU #19 (6/16/1986), YDU #35 (6/12/1992), YDU 3 Fed. #3 in (8/6/1993), YDU #27 (12/15/1993), YDU 4 Fed. #1 (8/8/1996), YDU #2 (8/17/2005), YDU 3 Fed. #4 (3/29/2011), YDU #4 (8/26/2011) and the YDU #14H (8/27/2013) - (See the attached status list of Unit wells and the Unit Type Well Log).

The tight Bone Spring Sands in the northern Delaware Basin of Southeast New Mexico which produce in the Unit have seen aggressive industry activity in the last 5 years driven by horizontal drilling and fracture stimulation advances. HEYCO is continuing to evaluate these ongoing technological advances in stimulation and horizontal drilling, and has horizontal drilling plans for the unit in 2015 targeting the 2<sup>nd</sup> Bone Spring Sand. HEYCO, however, is hesitant at this time to proceed with operations because of the current uncertain economic situation


resulting from a steep commodity price drop. HEYCO's APD of a horizontal test in the S/2S/2 of Section 10, the YDU #40H, scheduled for possible drilling in late 2014 was postponed and an extension was filed and approved (10/27/2014) pushing the APD expiration back to 9/10/2015.

Important 2014 HEYCO unit operations were limited to interim reclamation of the YDU #14H (4/2014) and the NOS for the Young Deep Unit #41H (12/2014), a 1 mile horizontal Bone Spring Second Sand test for a proration unit made up of the S/2S/2 of Sec. 9, T18S-R32E. This well will surface at a location close to the #40H and may be able to share various surface facilities with that well for cost savings. HEYCO expects to complete the APD process for this well in early 2015. In 2015 HEYCO will also evaluate the completion and production data from the new offsetting Mack Wolf Federal #1 completed 12/19/2014. Information from this vertical Bone Spring well with a multiple zone and multiple stage completion may encourage HEYCO to pursue additional drilling in the northern part of the unit.

Gas zones that have been left or bypassed due to current economic expectations will be addressed in future POD submittals should gas prices rebound. HEYCO also expects future horizontal unit activity for the lower Wolfcamp/Penn Shale interval as Permian Basin operators including HEYCO exploit this developing play northward from deeper in the Delaware Basin.

Based on the information submitted herewith, HEYCO respectfully requests the Bureau of Land Management approve this 2015 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,

  
Melissa Randle, Land Manager  
HEYCO Energy Group

MVR/GKY/vw  
Enclosures

YduPod2015.doc/Land:ydu#3

xc: Oil Conservation Division (w/encl.)  
1220 S. St. Francis Dr.  
Santa Fe, New Mexico 87505  
Attn: Sr. Petroleum Geologist

**DOI Bureau of Land Management - CARLSBAD FIELD OFFICE  
YOUNG DEEP UNIT POD ATTACHMENTS**

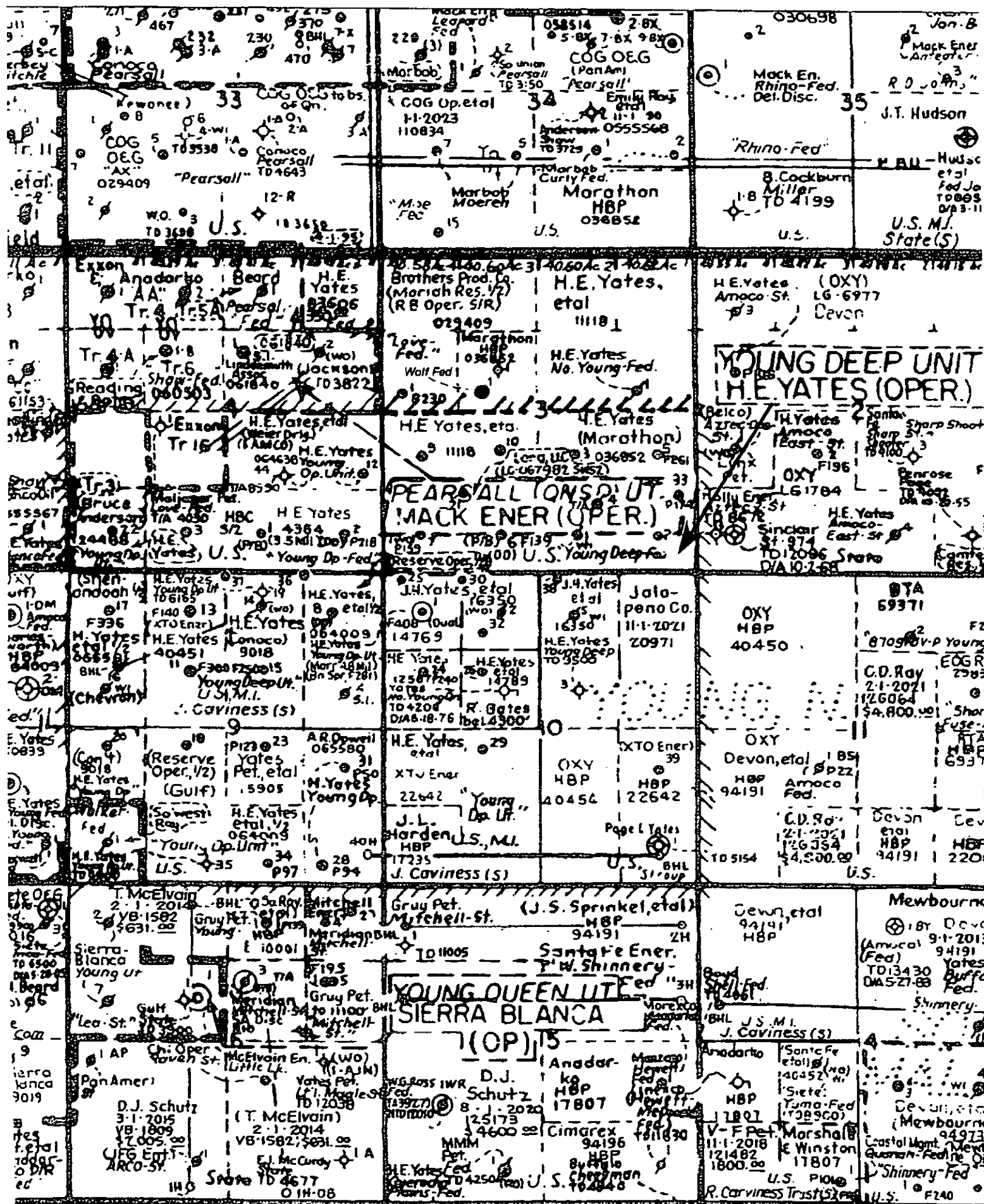
**Status of all Wells within the Unit as of 1/1/2015**

#	WELL NAME AND NUMBER	API NUMBER	COMP DATE	PROD ZONE	STATUS
1.	YOUNG DEEP UNIT 1	30025266400003	10/30/1990	WOLFCAMP	ACTIVE
2.	YDU 2	30025271210000	8/17/2005		P&A
3.	YDU 3	30025272290000	12/04/1984		D&A - PLUGGED
4.	YDU 4	30025273000000	7/2/1981		P&A
5.	YDU 5	30025273360000	10/31/1983	BONE SPRING	ACTIVE-WIW
6.	YDU 6	30025274770001	4/21/1994	BONE SPRING	ACTIVE
7.	YDU 7	30025275470001	11/29/1994	BONE SPRING	ACTIVE
8.	YDU 8	30025275350201	11/19/1987	BONE SPRING	ACTIVE
9.	YDU 9	30025284000001	10/23/2009	BONE SPRING	ACTIVE
10.	YDU 10	30025284730000	2/3/1984	BONE SPRING	ACTIVE
11.	YDU 11	30025287930001	12/25/1993	BONE SPRING	ACTIVE
12.	YDU 12	30025308660000	4/6/1990	BONE SPRING	ACTIVE
13.	YDU 13	30025289660000	12/20/1985	BONE SPRING	ACTIVE
14.	YDU 14H	30025290150101	12/16/2005		P&A 8/2013
15.	YDU 15	30025290460000	7/5/1985	BONE SPRING	ACTIVE
16.	YDU 16	30025290470000	3/30/1993	BONE SPRING	ACTIVE-WIW
17.	YDU 17	30025290600000	4/17/1985	BONE SPRING	ACTIVE
18.	YDU 18	30025313590000	9/27/1991	BONE SPRING	ACTIVE
19.	YDU 19	30025292780000	6/16/1986		D&A - PLUGGED
20.	YDU 20	30025309240000	11/21/1990	BONE SPRING	ACTIVE
21.	YDU 21	30025322880001	9/4/2009	BONE SPRING	ACTIVE
22.	YDU 22	30025292530000	7/6/1985	BONE SPRING	ACTIVE
23.	YDU 23	30025298960000	1/9/1988	BONE SPRING	ACTIVE
24.	YDU 24	30025307830000	7/26/1990	BONE SPRING	ACTIVE
25.	YDU 25	30025331730000	1/22/1996	BONE SPRING	ACTIVE
26.	YDU 26	30025309520000	10/5/1990	BONE SPRING	ACTIVE
27.	YDU 27	30025309760000	12/15/1993		D&A - PLUGGED
28.	YDU 28	30025310480000	4/3/1992	DELAWARE	ACTIVE
29.	YDU 29	30025312990000	9/12/1991	BONE SPRING	ACTIVE
30.	YDU 30	30025331740000	12/22/1995	BONE SPRING	ACTIVE
31.	YDU 31	30025310930000	5/13/1991	BONE SPRING	ACTIVE
32.	YDU 32	30025333150000	4/14/1996	BONE SPRING	ACTIVE
33.	YDU 33	30025334620000	8/24/1996	BONE SPRING	ACTIVE
34.	YDU 34	30025314670000	12/24/1991	DELAWARE	ACTIVE
35.	YDU 35	30025315960000	6/12/1992		D&A - PLUGGED
36.	YDU 36	30025336420000	11/28/1996	BONE SPRING	ACTIVE
37.	YDU 37	30025336430000	12/14/1996	BONE SPRING	ACTIVE
38.	YDU 38	30025338640000	12/25/1997	BONE SPRING	ACTIVE
39.	YDU 39	30025381790001	4/6/2007	BONE SPRING	ACTIVE-RECOMPL 2012
40.	YDU 40H	3002540820		BONE SPRING	PROPOSED NEW DRILL
41.	YDU 41H			BONE SPRING	STAKED NEW DRILL
42.	YOUNG DEEP UNIT 3 FED 1	30025273690000	12/1/1990	BONE SPRING	ACTIVE-WIW
43.	YDU 3 FED-2	30025289070000	11/19/1984	BONE SPRING	ACTIVE
44.	YDU 3 FED-3	30025275340000	8/6/1993		P&A
45.	YDU 3 FED-4	30025284810000	4/18/1984		P&A
46.	YDU 3 FED-5	30025287180000	6/30/1984	BONE SPRING	ACTIVE
47.	YDU 4 FED-1	30025268130000	8/8/1996		P&A
48.	YDU 4 FED-2	30025276790102	5/7/1995	BONE SPRING	ACTIVE
49.	YDU 4 FED-3	30025292680000	10/3/1985	BONE SPRING	ACTIVE

## SUMMARY

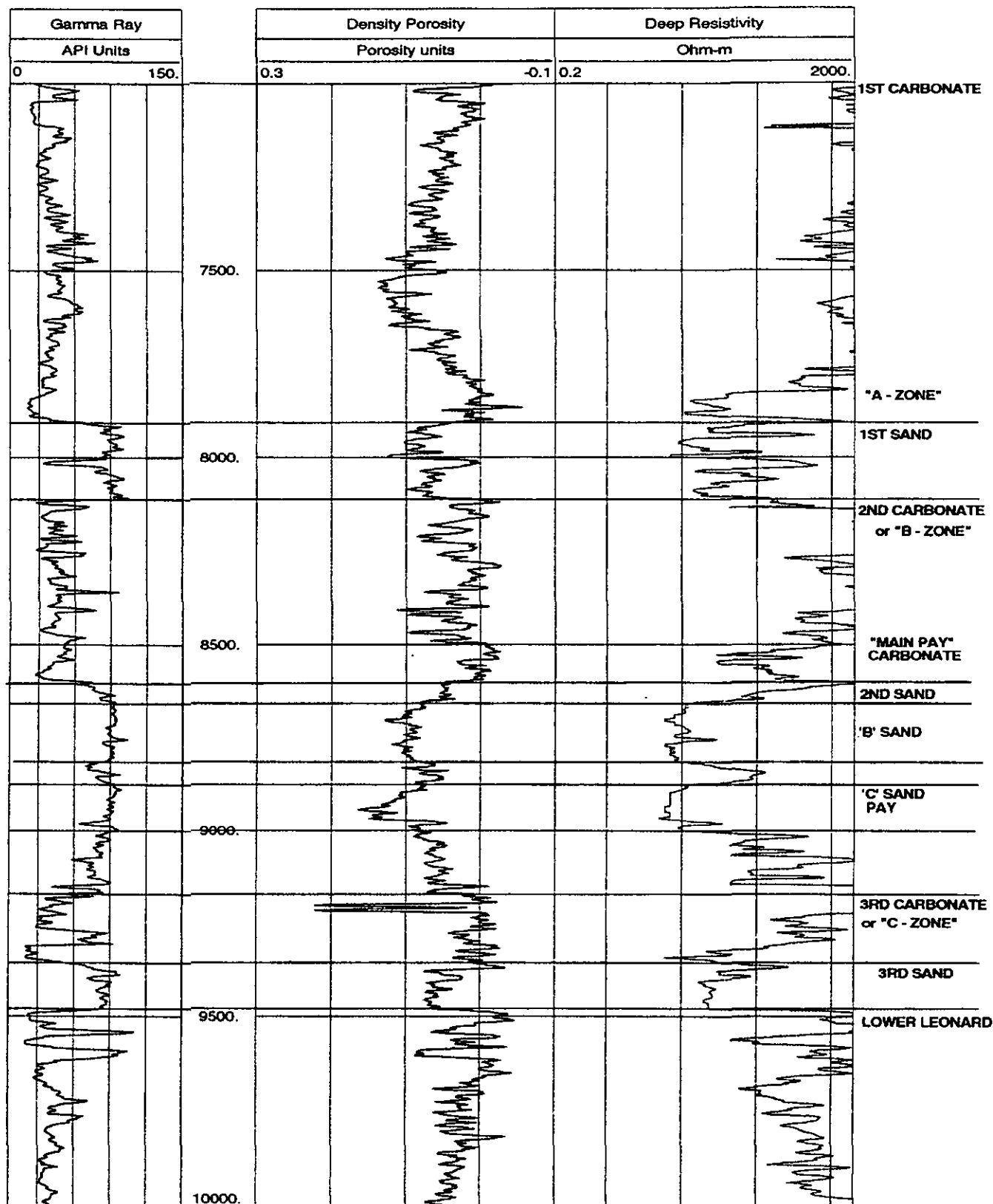
YDU WELLS WITH INDIVIDUAL TANKS	YDU WELLS GOING TO YDU 1 - BATTERY	YDU WELLS GOING TO YDU 11 - BATTERY	YDU WELLS BY PARTICIPATING AREA
YOUNG DEEP UNIT 1	YDU 6	YDU 4	MORROW:
YDU 12	YDU 7	YDU 11	None
YDU 18	YDU 8	YDU 13	
YDU 20	YDU 9	YDU 15	
YDU 23	YDU 10	YDU 17	
YDU 24	YDU 21	YDU 22	
YDU 25	YDU 26		WOLFCAMP:
YDU 28	YDU 4 FED-2		YDU 1
YDU 29			
YDU 30	YDU WELLS GOING TO YDU 25 - BATTERY	YDU WELLS GOING TO YDU 3 FED 1 - BATTERY	DELAWARE:
YDU 31	YDU 25	YDU 3 FED 2	YDU 28
YDU 32	YDU 30	YDU 3 FED 4	YDU 34
YDU 33	YDU 32	YDU 3 FED 5	
YDU 34	YDU 33		
YDU 36	YDU WELLS GOING TO YDU 36 - BATTERY	YDU WELLS GOING TO YDU 4 FED 1 - BATTERY	BONE SPRING:
YDU 37	YDU 36	YDU 4 FED 3	ALL OTHERS
YDU 38	YDU 37		
YDU 39			
2010 UNIT ACTIVITY	MAINTENANCE ONLY - EVALUATE 2009 WO's		
2011 UNIT ACTIVITY	YDU 3 FED 4 - P&A, YDU 4 - P&A		
2012 UNIT ACTIVITY	YDU #39 RECOMPLETED IN TO BONE SPRING FM. 1/2012		
2013 UNIT ACTIVITY	YDU #14H - P&A 8/2013		
2014 UNIT ACTIVITY	RECLAMATION OF YDU 14H WELL SITE		
2015 PLANNED ACTIVITY	DRILL YDU 40H HORIZONTAL 2ND BONE SPRING SAND TEST EVALUATE HZ FOR OFFSET DEVELOPMENT - #41H & #42H		





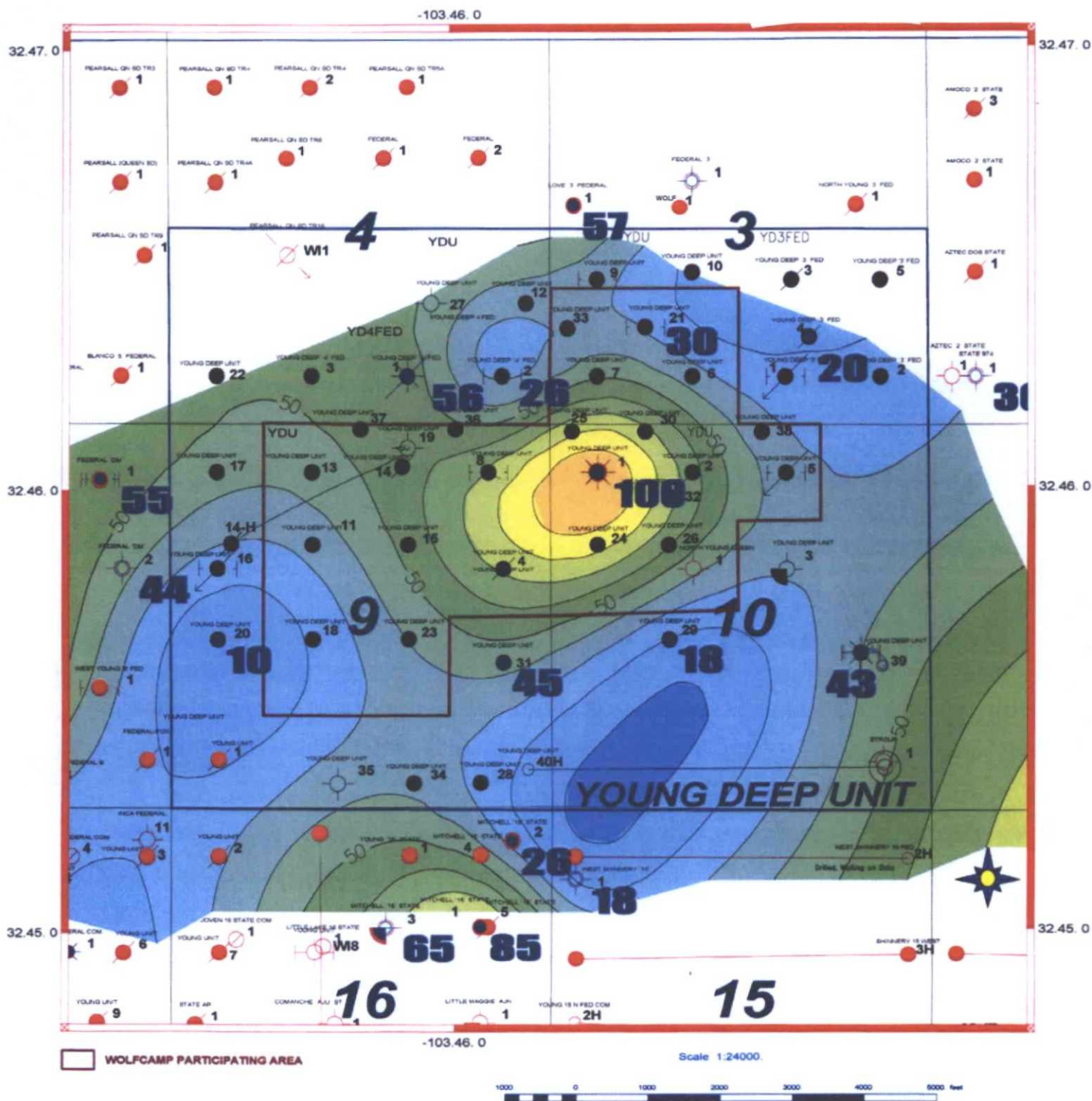
# NADEL and GUSSMAN HEYCO

## YOUNG DEEP UNIT #1

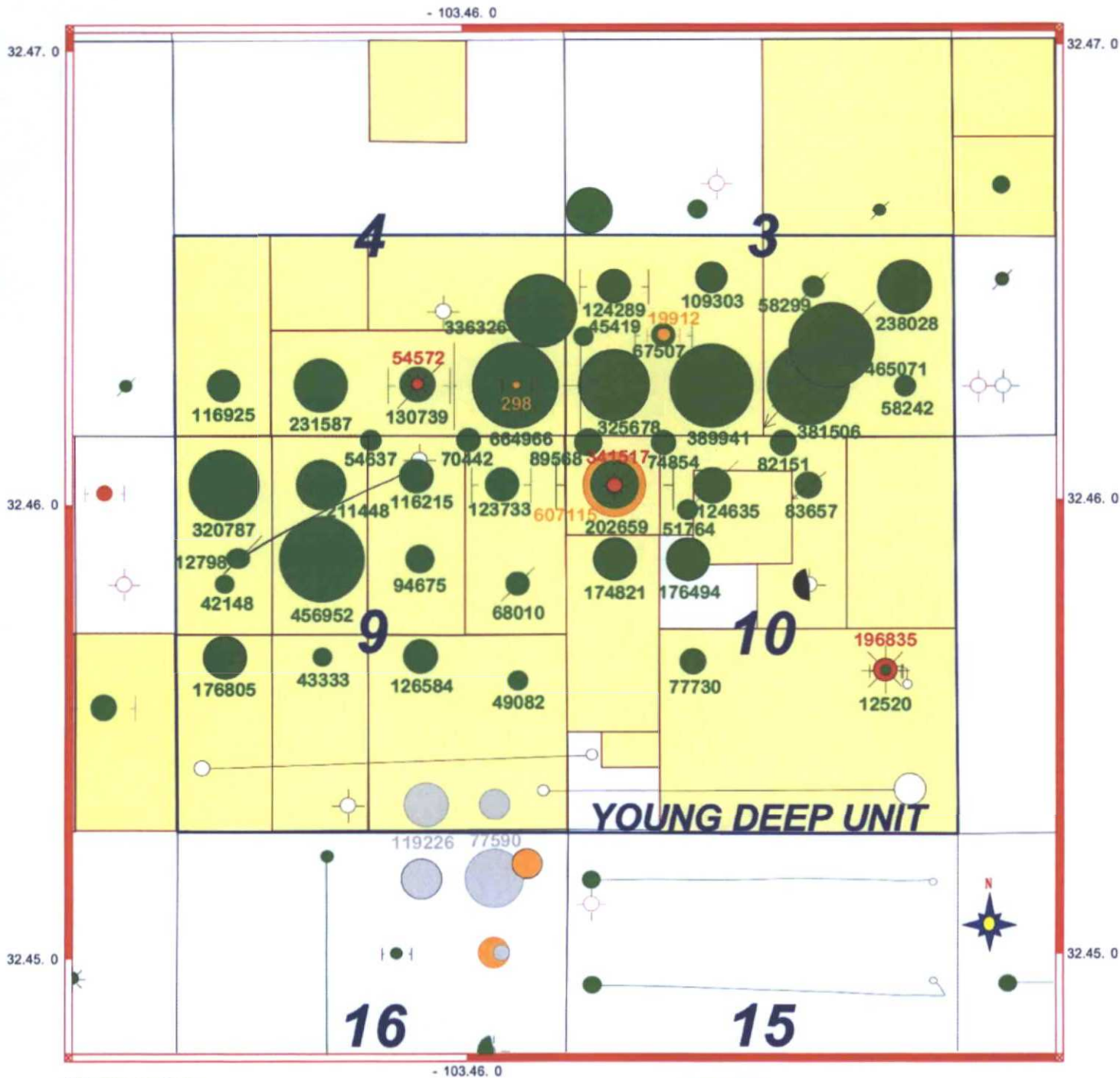


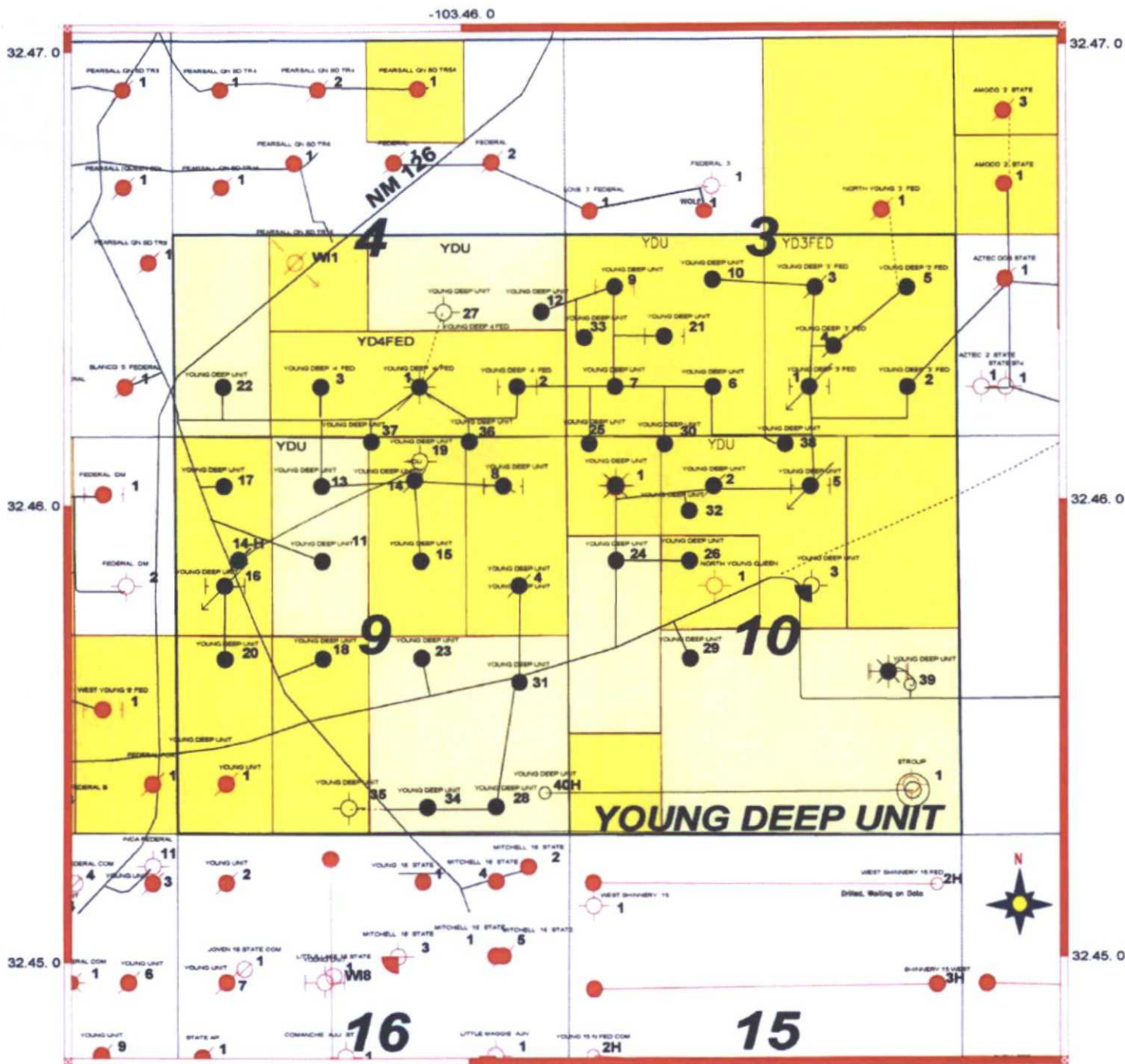












ACTIVE ROAD

INACTIVE OR RECLAIMED ROAD

Scale 1:24000



#### LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- \* Gas Well
- Location - Active or Proposed
- Oil Well
- ✖ Plugged and Abandoned Oil Well
- ⊙ Oil Well converted to water injector
- ⊙ Oil Well Workover
- ✖ Gas Well Plugged and Abandoned
- ✖ Injector - Plugged

HARVEY E. YATES COMPANY

YOUNG DEEP UNIT  
T-18-S, R-32-E, LEA COUNTY, NM  
Roads

Suzi Yahney

1" = 2,000 ft.

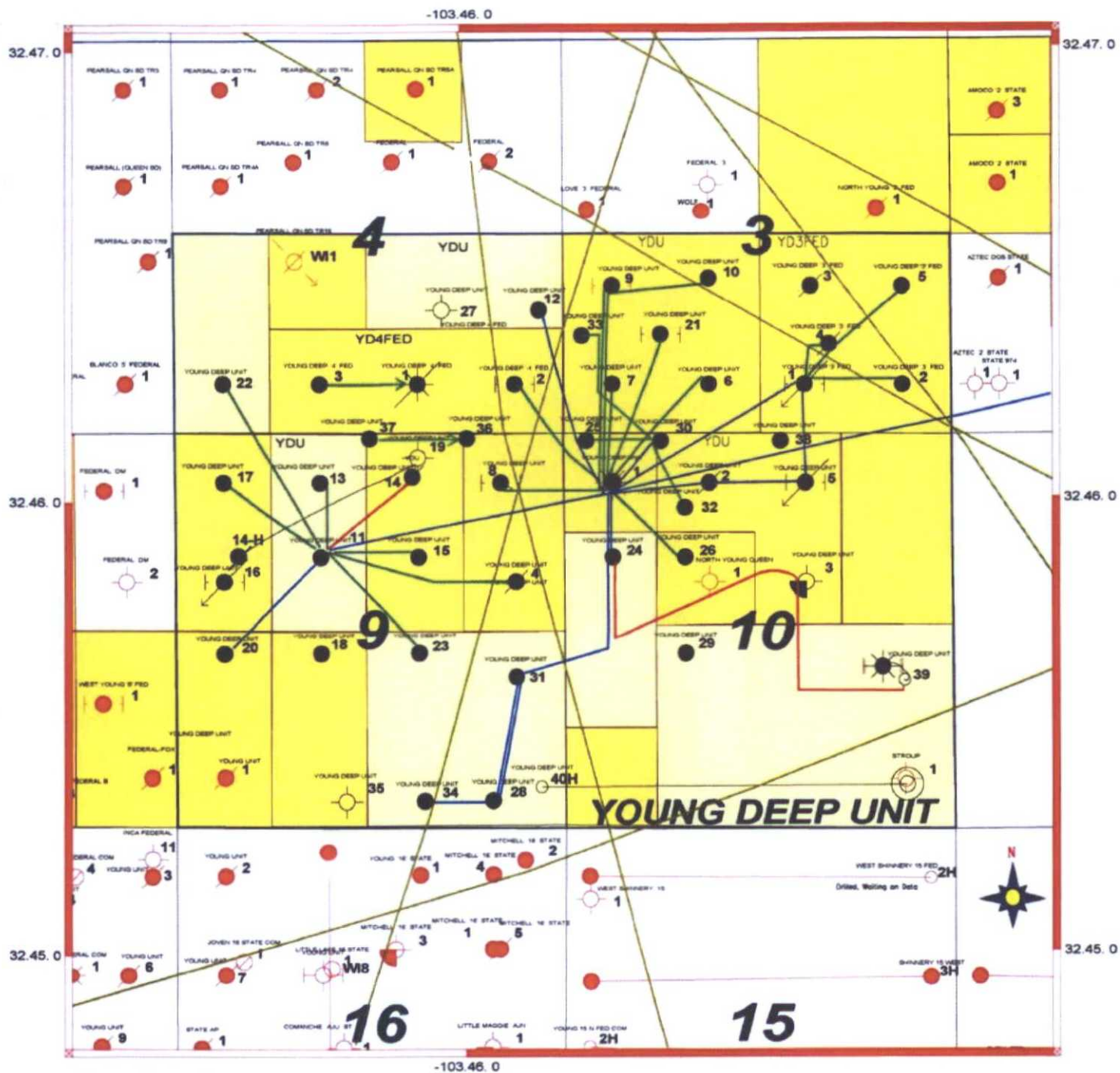
2/26/2015

YDU\_POD15-ROADS

Scale 1:24000.

YDU\_POD3.gpf





- YDU OIL GATHERING LINES
- YDU OIL GATHERING LINES
- 3RD PARTY PIPELINES
- YDU PRESSURE MAINTENANCE SYSTEM WATER LINES
- YDU GAS GATHERING LINES

#### LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- \* Gas Well
- Location - Active or Proposed
- Oil Well
- ✕ Plugged and Abandoned Oil Well
- ⌘ Oil Well converted to water injector
- ⊕ Oil Well Workover
- ✕ Gas Well Plugged and Abandoned
- ⌘ Injector - Plugged

## HARVEY E. YATES COMPANY

### YOUNG DEEP UNIT T-18-S, R-32-E, LEA COUNTY, NM Pipelines and Flowlines

Suzi Yahney

1" = 2,000 ft.

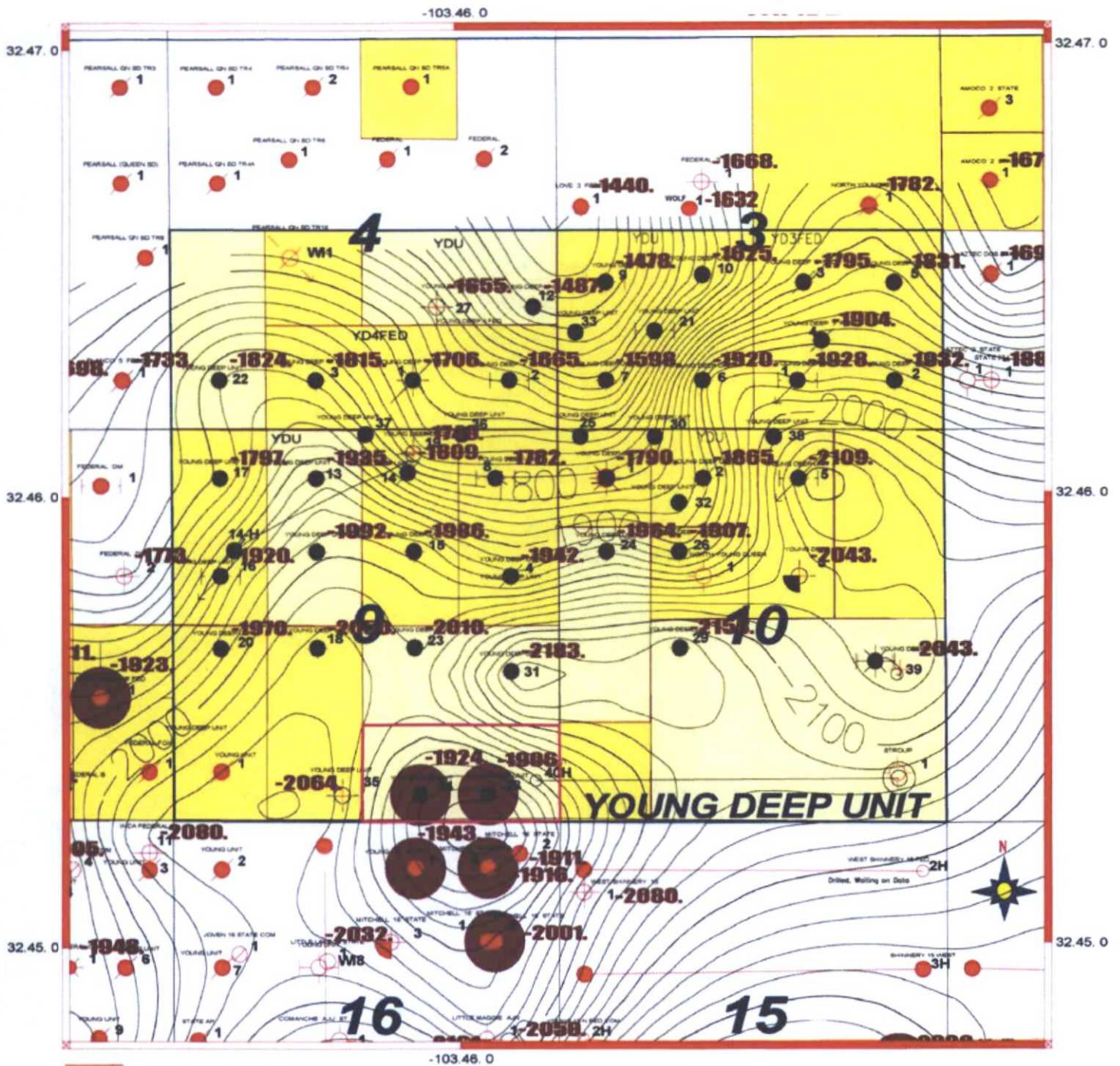
2/26/2015

YDU\_POD15-PIPELINES

Scale 1:24000.

YDU\_POD4.gpf





Scale 1:24000



#### LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- Gas Well
- ◊ Location - Active or Proposed
- Oil Well
- Plugged and Abandoned Oil Well
- ◊ Oil Well converted to water injector
- Oil Well Workover
- Gas Well Plugged and Abandoned
- ◊ Injector - Plugged

#### HARVEY E. YATES COMPANY

**YOUNG DEEP UNIT**  
**T-18-S, R-32-E - LEA COUNTY, NM**  
**T/U. BRUSHY CANYON DLWR MARKER**

CI = 20 FT.

1" = 2,000 ft.

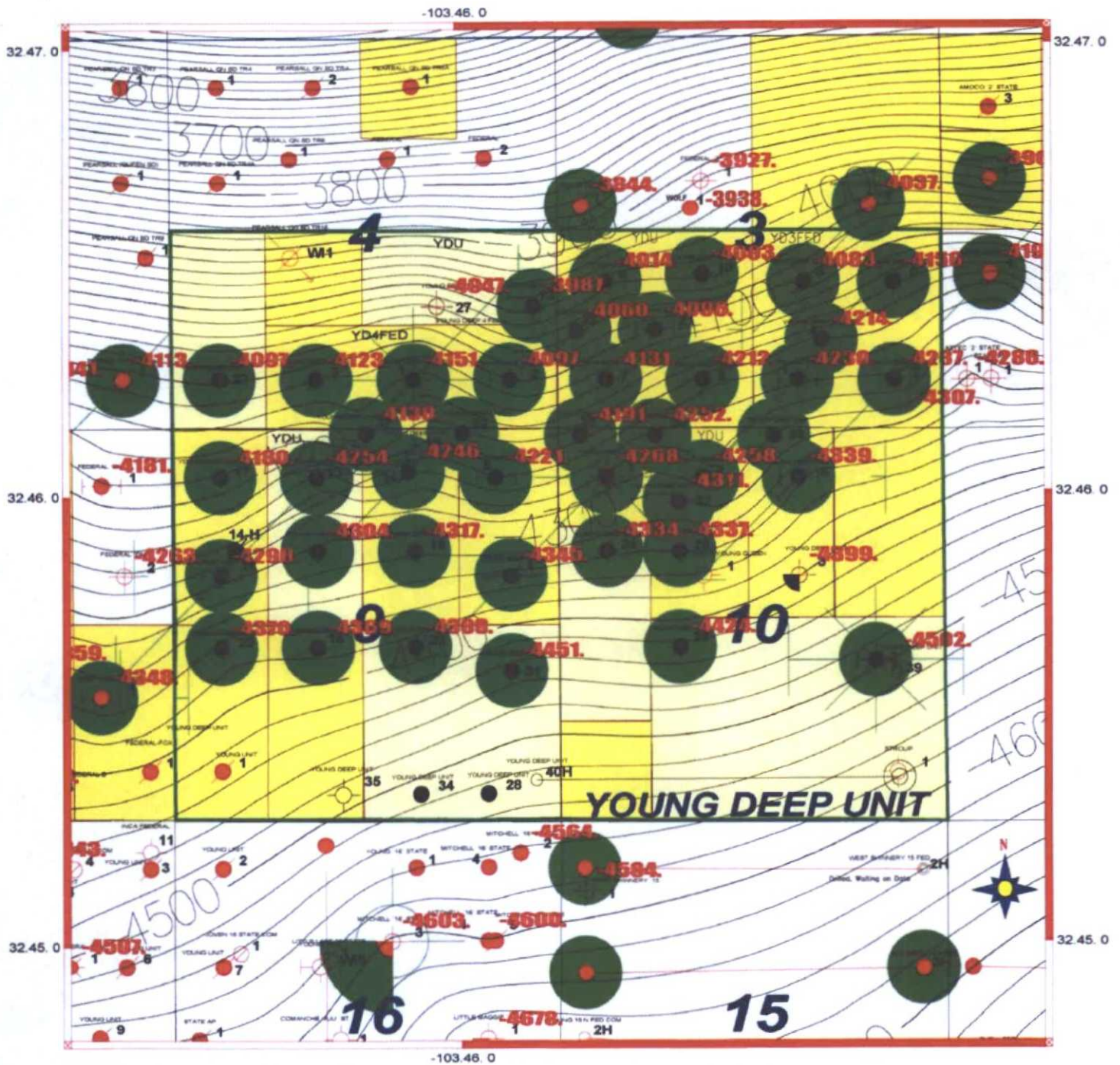
2/26/2015

YDU\_POD15-BCNYN

Scale 1:24000

YDU\_POD5.gpf





### LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- \* Gas Well
- Location - Active or Proposed
- Oil Well
- Plugged and Abandoned Oil Well
- ◊ Oil Well converted to water injector
- Oil Well Workover
- Gas Well Plugged and Abandoned
- ◊ Injector - Plugged

## HARVEY E. YATES COMPANY

### YOUNG DEEP UNIT T-18-S, R-32-E - LEA COUNTY, NM T/BONE SPRING "B" CARBONATE

C I = 20 FT.

1" = 2,000 ft.

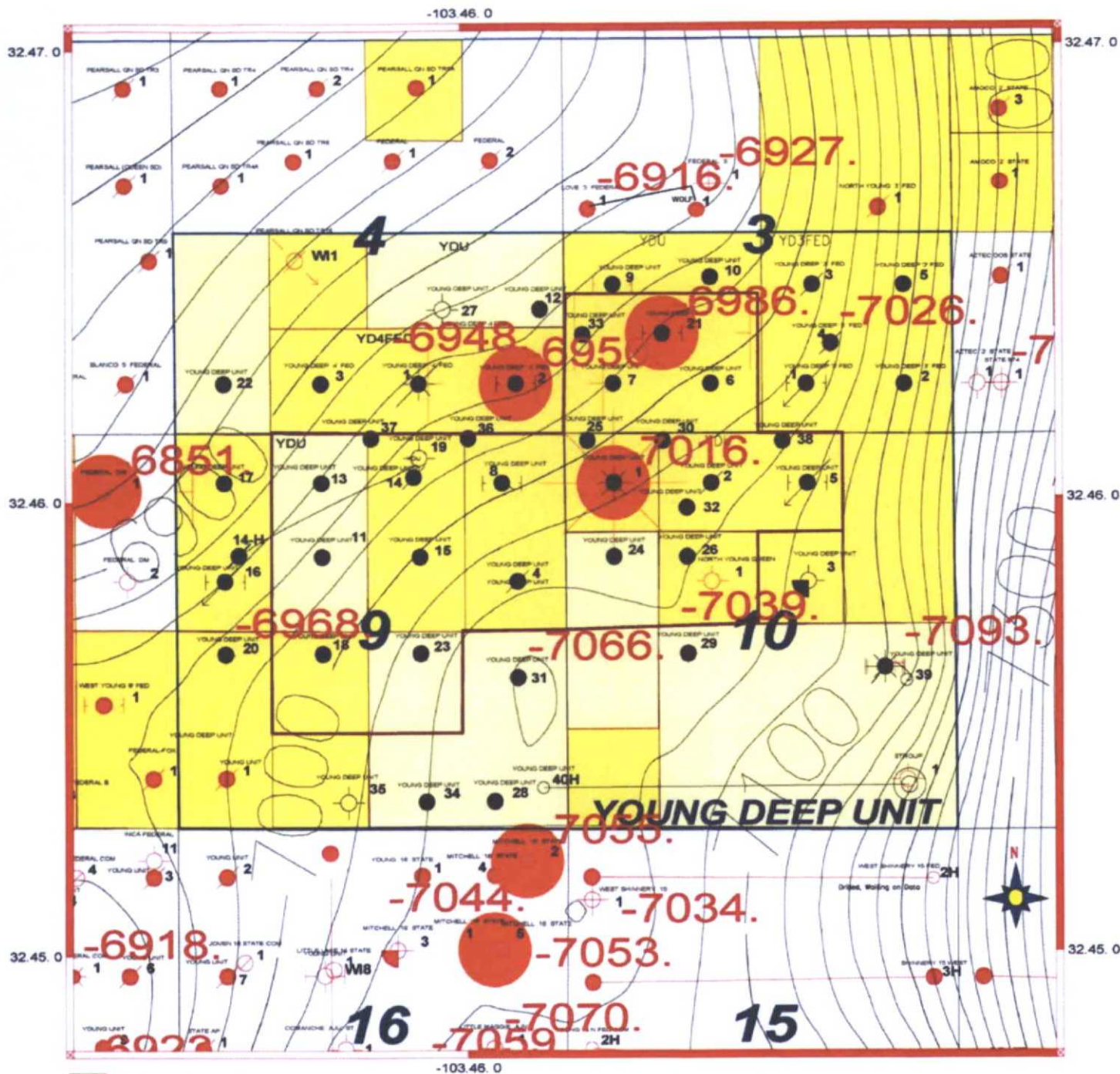
2/26/2015

YDU\_POD15-BCARB

Scale 1:24000

YDU\_POD6.gpf





Scale 1:24000



#### LEGEND

- Abandoned Location
- ◊ Dry and Abandoned
- \* Gas Well
- Location - Active or Proposed
- Oil Well
- # Plugged and Abandoned Oil Well
- ◊ Oil Well converted to water injector
- Oil Well Workover
- # Gas Well Plugged and Abandoned
- ◊ Injector - Plugged

#### HARVEY E. YATES COMPANY

#### YOUNG DEEP UNIT T-18-S, R-32-E - LEA COUNTY, NM STRUCTURE AT BASE WOLFCAMP FM.

C I = 20 FT

1" = 2,000 ft.

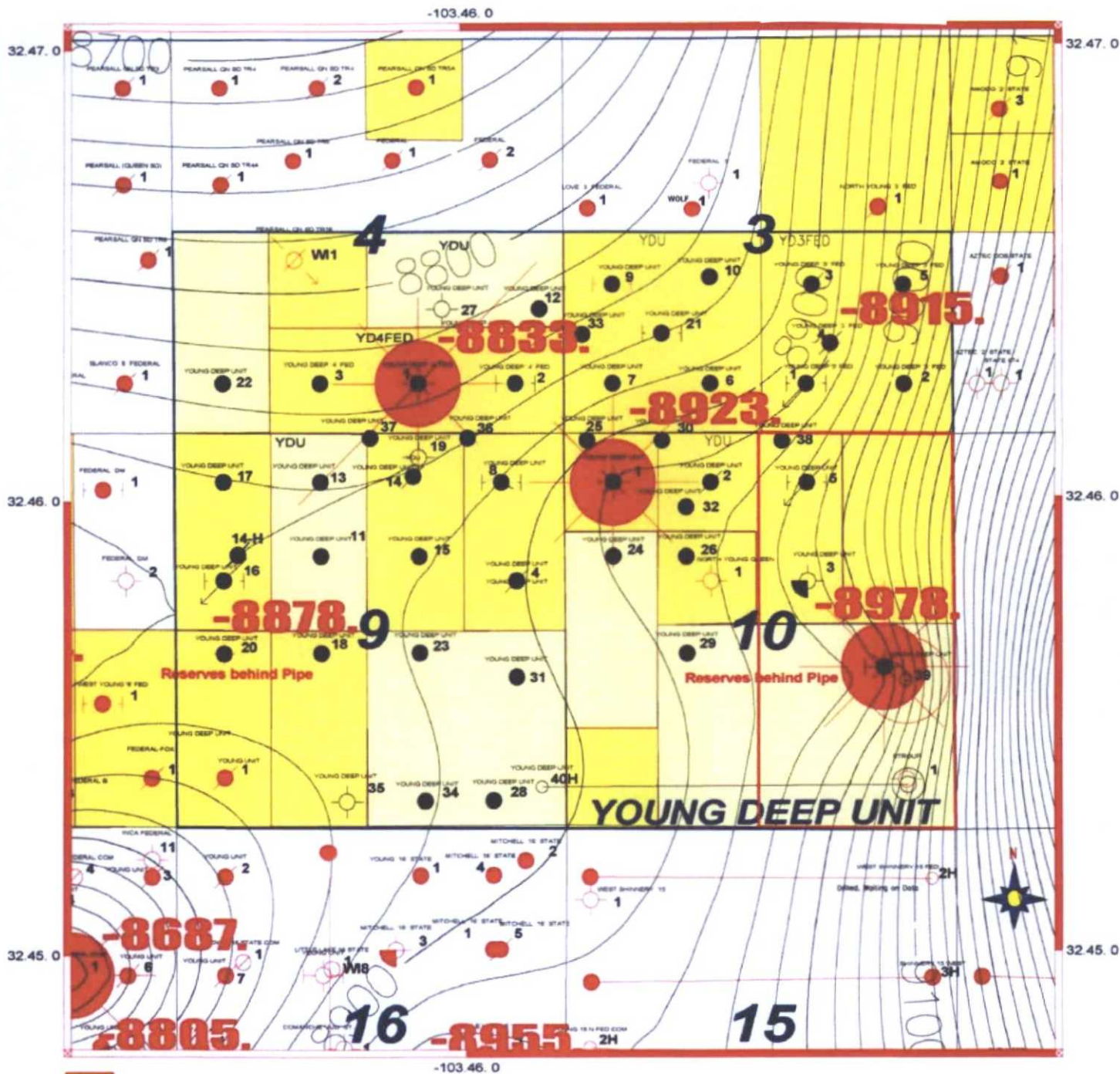
2/26/2015

YDU\_POD15-WFMP

Scale 1:24000.

YDU\_POD7.gpf





## HARVEY E. YATES COMPANY

### YOUNG DEEP UNIT T-18-S, R-32-E - LEA COUNTY, NM STRUCTURE T/ LOWER MORROW

CI = 20 FT.

1" = 2,000 ft.

2/26/2015

YDU\_POD15-MRRW

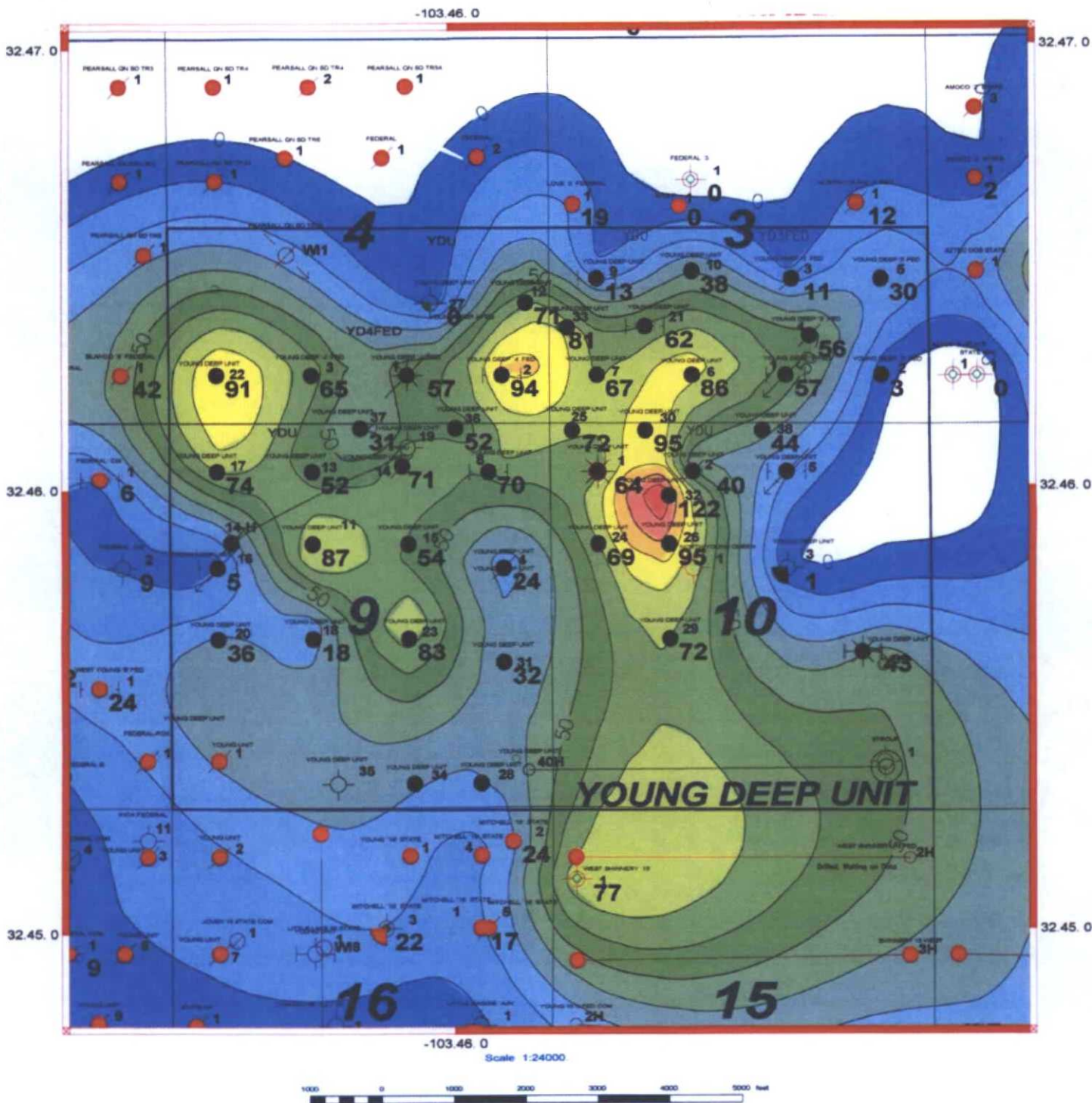
Scale 1:24000

YDU\_POD8.gpf



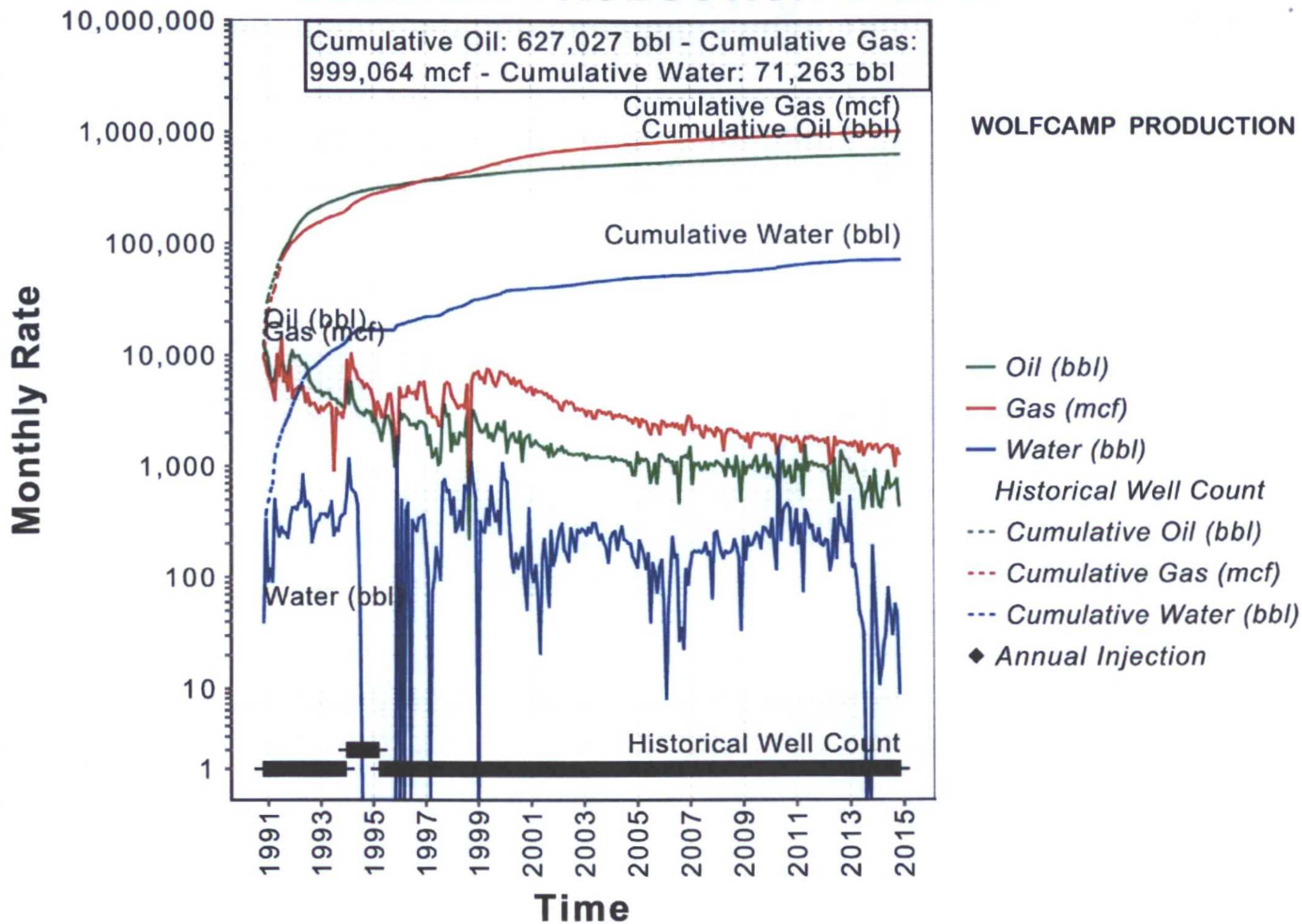






<b>LEGEND</b> <ul style="list-style-type: none"> <li>• Abandoned Location</li> <li>◊ Dry and Abandoned</li> <li>• Gas Well</li> <li>◊ Location - Active or Proposed</li> <li>• Oil Well</li> <li>• Plugged and Abandoned Oil Well</li> <li>◊ Oil Well converted to water injector</li> <li>• Oil Well Workover</li> <li>• Gas Well Plugged and Abandoned</li> <li>• Injector - Plugged</li> </ul>	<b>HARVEY E YATES COMPANY</b>		
	<b>YOUNG DEEP UNIT</b> <b>T-18-S, R-32-E, LEA COUNTY, NM</b> <b>Bone Spring 2nd Sd Pay - Porosity &gt;10%</b>		
	CI = 10 FT. YDU_POD15-2SD POR	1" = 2,000 ft. Scale 1:24000.	2/26/2015 YDU_POD0.gpf

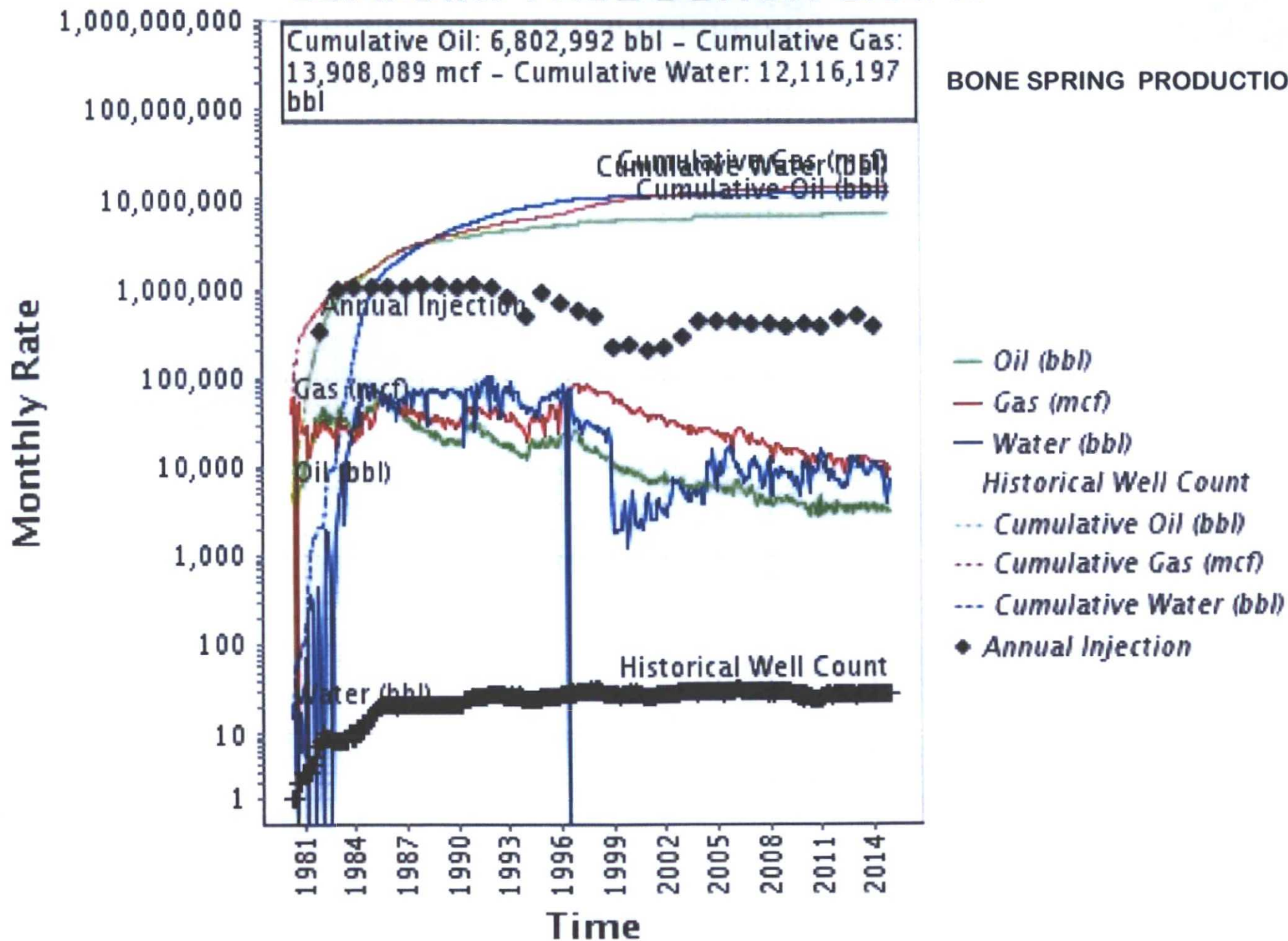
# SUMMARY PRODUCTION GRAPH





# SUMMARY PRODUCTION GRAPH

BONE SPRING PRODUCTION

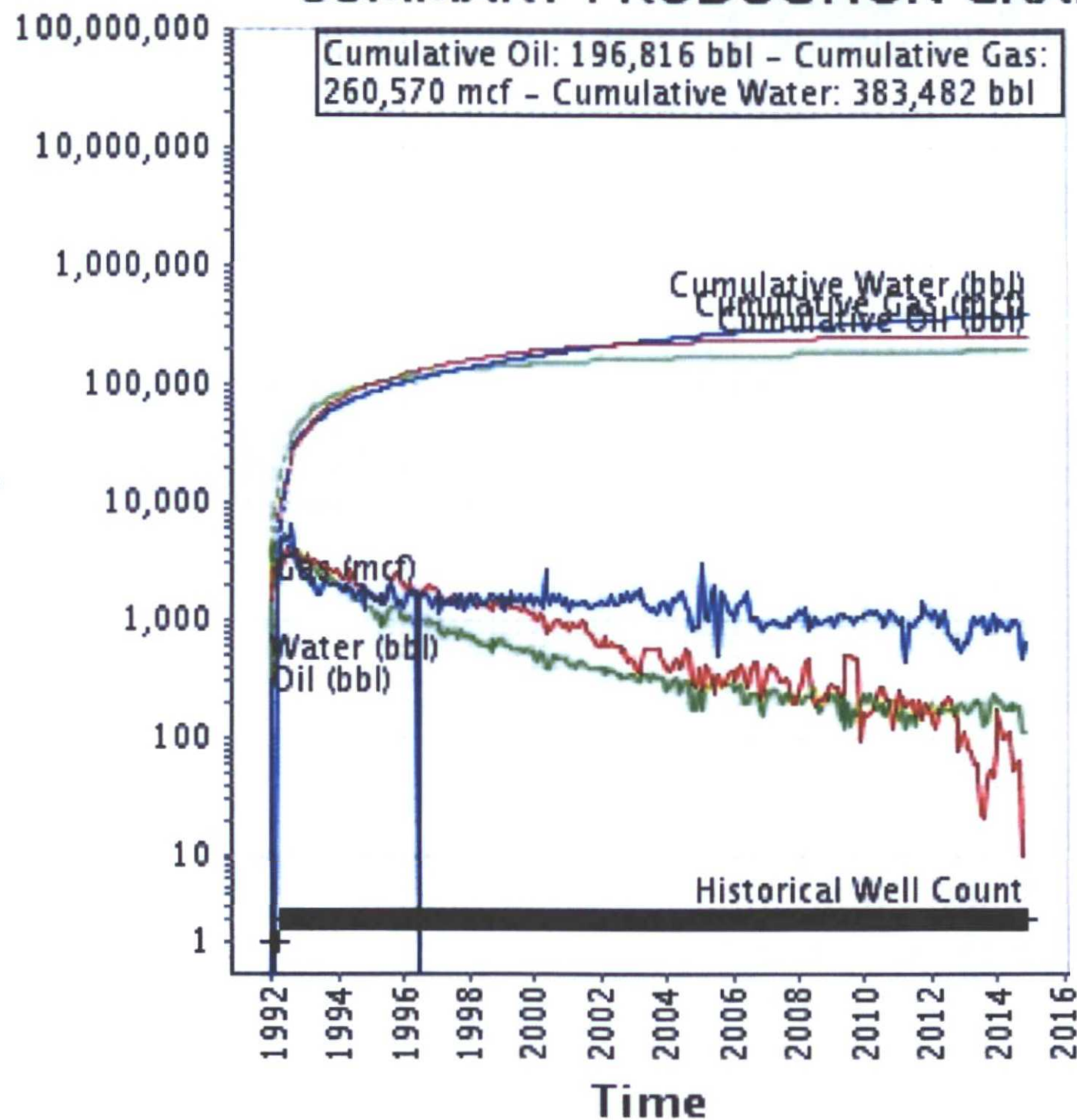


# SUMMARY PRODUCTION GRAPH

Cumulative Oil: 196,816 bbl - Cumulative Gas: 260,570 mcf - Cumulative Water: 383,482 bbl

DELAWARE PRODUCTION

Production Rate



- Oil (bbl)
- Gas (mcf)
- Water (bbl)
- Historical Well Count
- Cumulative Oil (bbl)
- Cumulative Gas (mcf)
- Cumulative Water (bbl)
- Annual Injection

Lease Name: MULTIPLE  
County, State: LEA, NM  
Operator: MULTIPLE  
Field: YOUNG  
Reservoir: MORROW  
Location:

### HARVEY E. YATES COMPANY YOUNG MORROW

Production Rates

