DHC 4/27/98

Chevron

1921

April 2, 1998

Chevron U.S.A. Production Company
P.O. Box 1150
Midland, TX 79702

Request for Exception to Rule 303-A
Downhole Commingling
Blinebry (Pro Gas) Pool and Tubb (Pro Gas) Pool
J. N. Carson (NCT-A) #9
1874' FSL & 2086' FWL
Unit K, Section 28, T-21-S, R-37-E
Lea County, New Mexico

State of New Mexico
Energy, Minerals & Natural Resources Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

Attention: Lori Wrotenbury, Director

Dear Ms. Wrotenbury:

Chevron U.S.A. Inc. respectfully requests your administrative approval for an exception to Rule 303-A to permit the downhole commingling of the Blinebry (Pro Gas) and the Tubb (Pro Gas) zones in the subject wellbore.

Currently this well is a dual completion in these respective zones which are isolated by a packer set at 5980'. The proposed downhole commingling will allow maintaining current production rates in both zones while eliminating expensive frequent swabbing of the well on the Tubb side due to loading-up underneath packer. This will enable this well to produce from both zones to a lower economic limit thus increasing recovery and preventing waste.

Enclosed is the OCD Form C-107-A and supporting documentation for this administrative application for exception to Rule 303-A. A copy of this application is being provided via Certified Mail to all affected offset operators and, when applicable, the Commissioner of Public Lands and Bureau of Land Management.

If there are any questions or should you require additional information concerning this application, please contact Alan W. Bohling at (915) 687-7246.

Sincerely yours,

Alan W. Bohling
Petroleum Engineer
New Mexico Area

cc: NMOCD - Hobbs, New Mexico

OFFSET OPERATORS

Marathon
P. O. Box 552
Midland, Texas 79702

Titan Resources
500 W. Texas, Ste. 500
Midland, Texas 79701

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
New 3-12-96

APPROVAL PROCESS:
__ Administrative __ Hearing

EXISTING WELLBORE
__ YES __ NO

APPLICATION FOR DOWNHOLE COMMINGLING

CHEVRON U.S.A. PRODUCTION CO. (Operator) P. O. BOX 1150, MIDLAND, TX 79702 (Address)

J. N. CARSON (NCT-A) #9 (Lease / Well No.) K-28-21S-37E (Unit Ltr. - Sec. - Twp. - Rge) LEA (County)

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 4323 Property Code 002593 API NO. 30-025-06850 Federal ___, State ___, Indian Fee ___

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Blinebry (Pro Gas) 72480		Tubb (Pro Gas) 86440
2. Top and Bottom of Pay Section (Perforations)	5509'-5836'		5984'-6234'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 155# (Est.) b. (Original) (Approx. 1900# Est.)	a. b.	a. 230# (Est.) b. (Approx. 1600# Est.)
6. Oil Gravity (°API) or Gas BTU Content	1260 BTU/CF (Wet)		1228 BTU/CF (Wet)
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give date and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 3-1-98 Rates: 0/248/1	Date: Rates:	Date: 3-2-98 Rates: 1/205/0
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 0 % Gas: 50 %	Oil: % Gas: %	Oil: 100 % Gas: 50 %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? X Yes __ No
If not, have all working, overriding, and royalty interests been notified by certified mail? __ Yes __ No
Have all offset operators been given written notice of the proposed downhole commingling? X Yes __ No

11. Will cross-flow occur? __ Yes X No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. X Yes __ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? X Yes __ No

13. Will the value of production be decreased by commingling? __ Yes X No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. X Yes __ No

15. NMOCD Reference Cases for Rule 303(C) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS:
- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explaination.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of all offset operators.
- Notification list of working, overriding, and royalty interests for uncommon interest cases.
- Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Alan W. Bohling TITLE Petroleum Engineer DATE 4/2/98

TYPE OR PRINT NAME Alan W. Bohling TELEPHONE NO. (915) 687-7246

CHEVRON U. S. A., INC.

Request for Exception to Rule 303-A
Downhole Commingling
Blinebry (Pro Gas) Pool and
Tubb (Pro Gas) Pool
J. N. Carson (NCT-A) #9

Additional Statements to Form C-107A

5a. Bottomhole Pressure

The Blinebry (or upper completion) is currently producing flowing. Independant calculations from previous packer leakage tests and recent gas analysis results in a BHP of 155 psi. This calculated value is reasonable with pressures observed in this area and formation. Similarly, the Tubb (or lower completion) is currently producing, flowing, from beneath a packer. The BHP calculations, again utilizing previous packer leakage tests and recent gas analysis, results in a BHP of 230 psi. This also compares favorably with pressures observed in this area and formation. (see attached gas analysis)

7b. Marginal Production

Currently both the Blinebry and Tubb production from this dual completed well is economically marginal relevant to lease fixed operational costs. However, production from both zones can be maintained at their current respective decline rates (12%/yr. and 9%/yr.) as a result of eliminating wellbore restrictions (mechanical and fluids) through downhole commingling and hence render this production as no longer marginal. A single tubular completion within this wellbore will considerably reduce or eliminate the current need of swabbing the Tubb zone almost twice per month as a result of loading up with fluids beneath the packer.

8 & 9. Fixed Percentage Allocation

Recent test data would indicate that the gas production should *not* be allocated evenly between the Blinebry and Tubb pools (50/50). However, based on current gas decline rates, comparison of cumulative gas volumes produced and calculated remaining recoverable gas reserves, it is recommended that the total gas production from this well, subsequent to downhole commingling, be allocated 50% to each pool. The total oil production, or 100%, should be allocated to the Tubb pool while 100% of the total water production be allocated to the Blinebry pool.

	BOPD	MCFPD	BWPD
Blinebry % of Total DHC	**0%**	**50%**	**100%**
Tubb % of Total DHC	**100%**	**50%**	**0%**

10a. Ownership

All working interest and royalty interest owners in the subject spacing unit(s) are common in all commingled zones and thus correlative rights will not be compromised.

10c. Offset Operator Notification

By copy of this application, sent certified mail, we are notifying all affected offset operators (see list) of this proposed downhole commingling to include, when applicable, the Bureau of Land Management and the New Mexico State Land Office.

11a. Cross Flow

Due to the minimal difference in the calculated bottomhole pressures and in view of keeping the commingled production in a "pumped off" state, cross-flow between the commingled zones is not anticipated to occur.

12. Fluid Compatibility

Previous commingling of these zones by Chevron and other operators in this area have shown that the produced fluids are compatible and commingling will not cause formation damage or waste.

13. Value

Chevron receives essentially the same price for the gas from these zones and oil is only coming from the Tubb zone, thus the value will not be adversely affected by commingling.

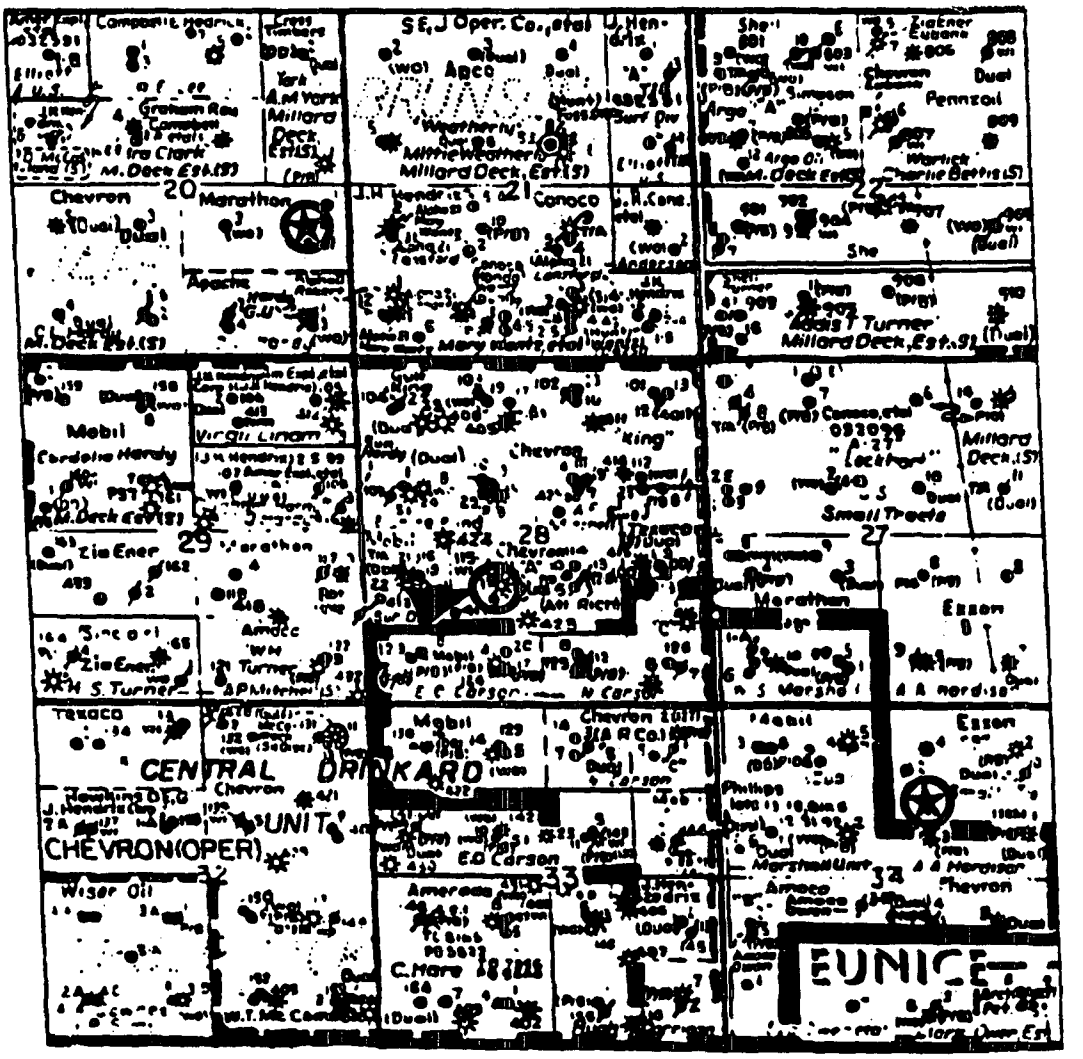
16. Attachments

The following attachments have been included with OCD Form C-107A:

a. OCD Form C-102 plats for each zoned to be commingled showing their dedicated acreage;
b. Production curves and respective tables for each zone showing production over the last several years;
c. N/A
d. See Items 8 & 9 above;
e. A list of affected offset operators;
f. N/A
g. (This addendum sheet to OCD Form C-107A)

CHEVRON U. S. A., INC.

Request for Exception to Rule 303-A
Downhole Commingling
Blinebry (Pro Gas) Pool and
Tubb (Pro Gas) Pool
J. N. Carson (NCT-A) #9
1874' FSL & 2086' FWL
Unit K, Section 28, T-21-S, R-37-E
Lea County, New Mexico



Denotes wells currently Downhole Commingled in Blinebry & Tubb

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 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	Pool Code	Pool Name
30-025-06850	72480	Blinebry (Pro Gas)

Property Code	Property Name	Well Number
002593	J. N. CARSON (NCT-A)	9

OGRID No.	Operator Name	Elevation
4323	Chevron U.S.A. Production	

Surface Location

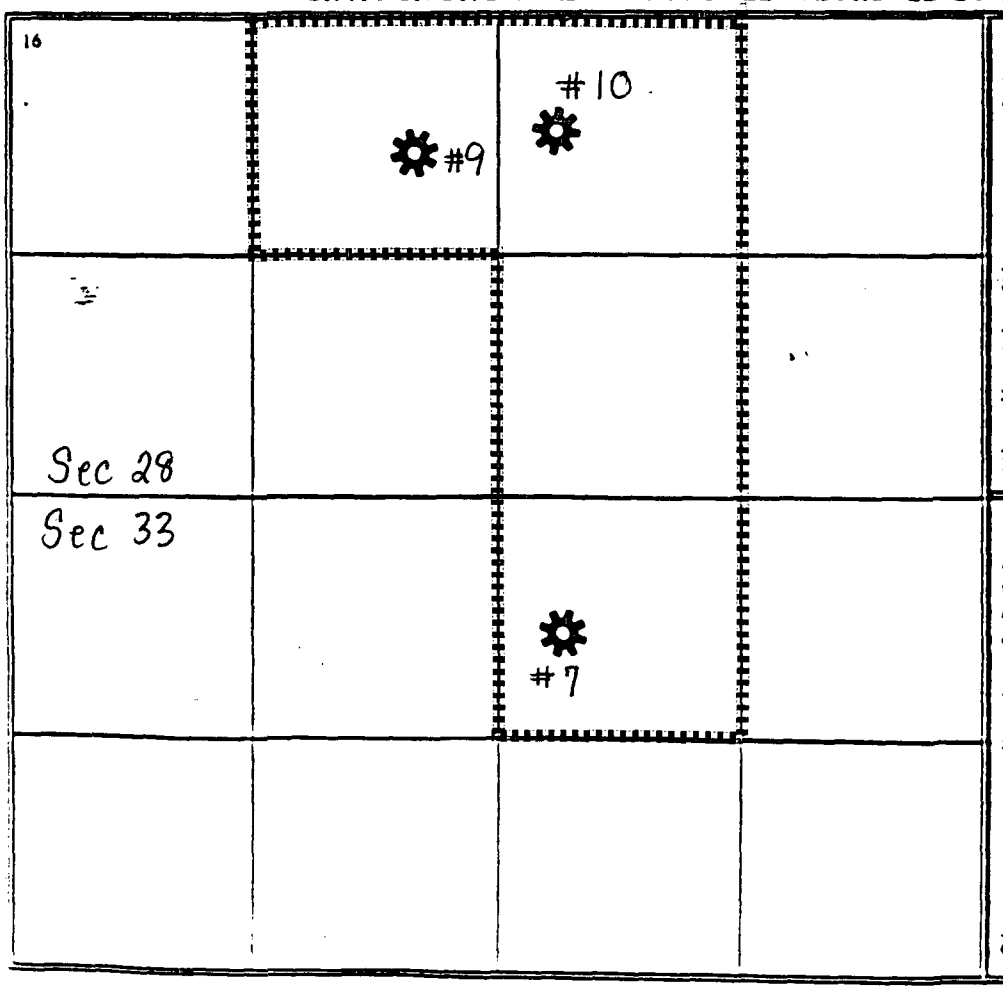
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	21S	37E		1874'	South	2086	West	Lea

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	Joint or Infill	Consolidation Code	Order No.
160			

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



OPERATOR CERTIFICATION

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

Tanya Kerley
Signature
Tanya Kerley
Printed Name
Office Assistant
Title
4-2-98
Date

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 Surveyor:

Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 10, 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

¹ API Number	² Pool Code	³ Pool Name
30-025-06850	96440	Tubb (Pro Gas)

⁴ Property Code	⁵ Property Name	⁶ Well Number
002593	J. N. CARSON (NCT-A)	9

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
4323	Chevron U.S.A. Production	

¹⁰ Surface Location

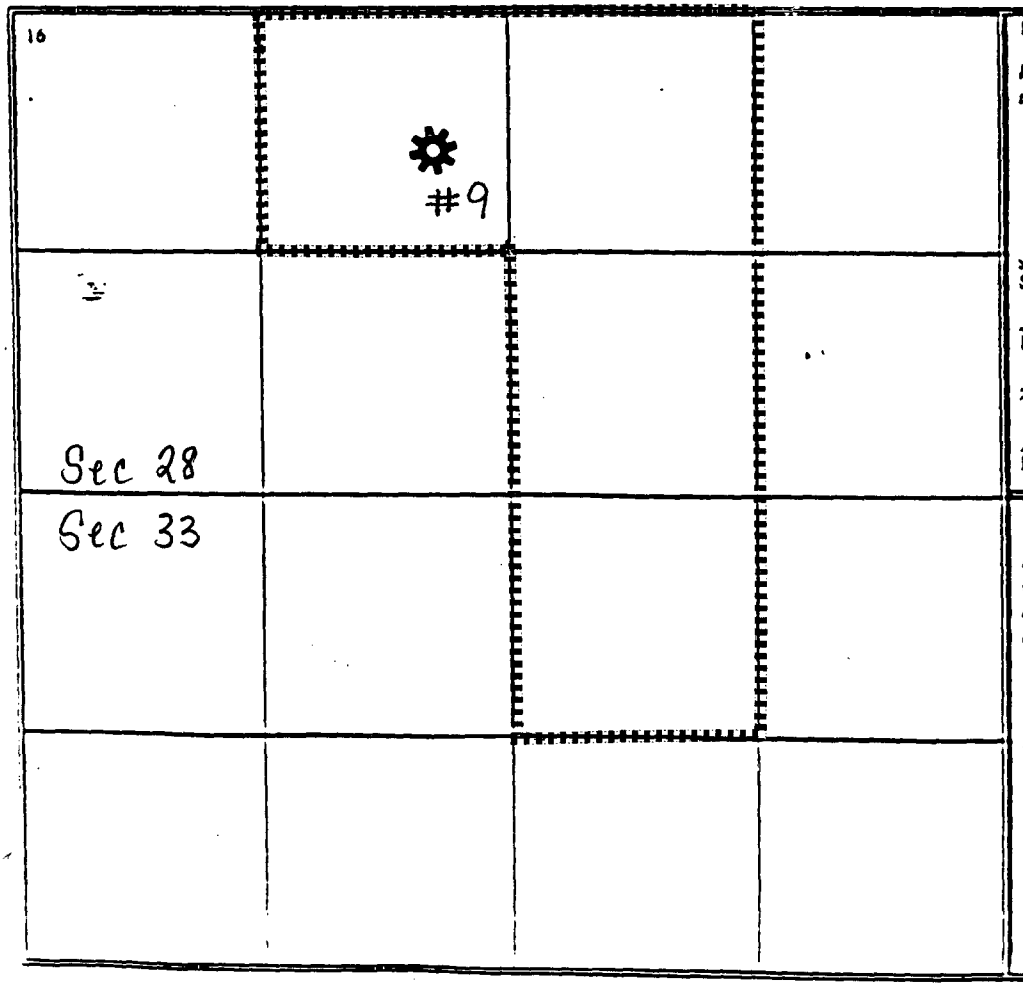
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	21S	37E		1874'	South	2086'	West	Lea

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

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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



¹⁷ OPERATOR CERTIFICATION

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

Tanya Kerley
Signature
Tanya Kerley
Printed Name
Office Assistant
Title
4-2-98
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 Surveyor:

Certificate Number

MIT 2 COPIES TO
ROPRIATE DISTRICT OFFICE
TRICT I -
. BOX 1980, HOBBS NM 88240
TRICT II -
. DRAWER DD, ARTESIA, NM 99210
TRICT III -
0 RIO BRAZOS RD., AZTEC, NM 87410

STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

FORM C-116
REVISED 1/1/89

GAS-OIL RATIO TEST

RATOR: CHEVRON U.S.A. INC.
RESS: P.O. BOX 668 EUNICE, NEW MEXICO 88231

POOL: Blq COUNTY Lea
TYPE(X) SCHEDULE___ COMPLETION___ SPECIAL ✓

SE IE	WELL NO	U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG PRESS.	LENGTH OF TEST HOURS	WATER BBLS	GRAV OIL	OIL BBLS	GAS MCF	GAS-OIL RATIO CU.FT/BBL
Carson "A"	9	K	28	21	37	3-1-98	F	2"4/0	50	24	1		0	248	

STRUCTIONS:
DURING GAS-OIL RATIO TEST, EACH WELL SHALL BE PRODUCED AT A RATE
T EXCEEDING THE TOP UNIT ALLOWABLE FOR THE POOL IN WHICH THE
LL IS LOCATED BY MORE THAN 25 PERCENT. OPERATOR IS ENCOURAGED
TAKE ADVANTAGE OF THIS 25 PERCENT TOLERANCE IN ORDER THAT WELL
N BE ASSIGNED INCREASED ALLOWABLES WHEN AUTHORIZED BY THE DIVISION.
GAS VOLUMES MUST BE REPORTED IN MCF AT 15.025 PSIA AND A TEMPER-
URE OF 60 DEGREES F. SPECIFIC GRAVITY BASE WILL BE 0.60.
REPORT CASING PRESSURE IN LIEU OF TUBING PRESSURE FOR ANY WELL
ODUCING THROUGH CASING.
EE RULE 301 RULE 1116 AND APPROPRIATE POOL RULES.)

I HEREBY CERTIFY THAT THE ABOVE INFORMATION
IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

C.W. Freeman
SIGNATURE
C.W. Freeman Prod Spec.
PRINTED NAME AND TITLE
3-10-98 505-394-1229
DATE TELEPHONE NO.

MIT 2 COPIES TO
IOPRIATE DISTRICT OFFICE
TRICT I -
. BOX 1980, HOBBS NM 88240
TRICT II -
. DRAWER DD, ARTESIA, NM 99210
TRICT III -
O RIO BRAZOS RD., AZTEC, NM 87410

STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
P.O. BOX 2088
SANTA FE, NEW MEXICO 87504-2088

FORM C-116
REVISED 1/1/89

GAS-OIL RATIO TEST

RATOR: CHEVRON U.S.A. INC.
RESS: P.O. BOX 688 EUNICE, NEW MEXICO 88231

POOL: Tubb COUNTY Lea
TYPE(X) SCHEDULE___ COMPLETION___ SPECIAL ✓

SE IE	WELL NO	U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG PRESS.	LENGTH OF TEST HOURS	WATER BBLS	GRAV OIL	OIL BBLS	GAS MCF	GAS-OIL RATIO CU.FT/BBL	
Carson A	9	K	28	21	37	3-2-98	F	2"	50	24	0		1	205		

STRUCTIONS:
DURING GAS-OIL RATIO TEST, EACH WELL SHALL BE PRODUCED AT A RATE
T EXCEEDING THE TOP UNIT ALLOWABLE FOR THE POOL IN WHICH THE
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EE RULE 301 RULE 1116 AND APPROPRIATE POOL RULES.)

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

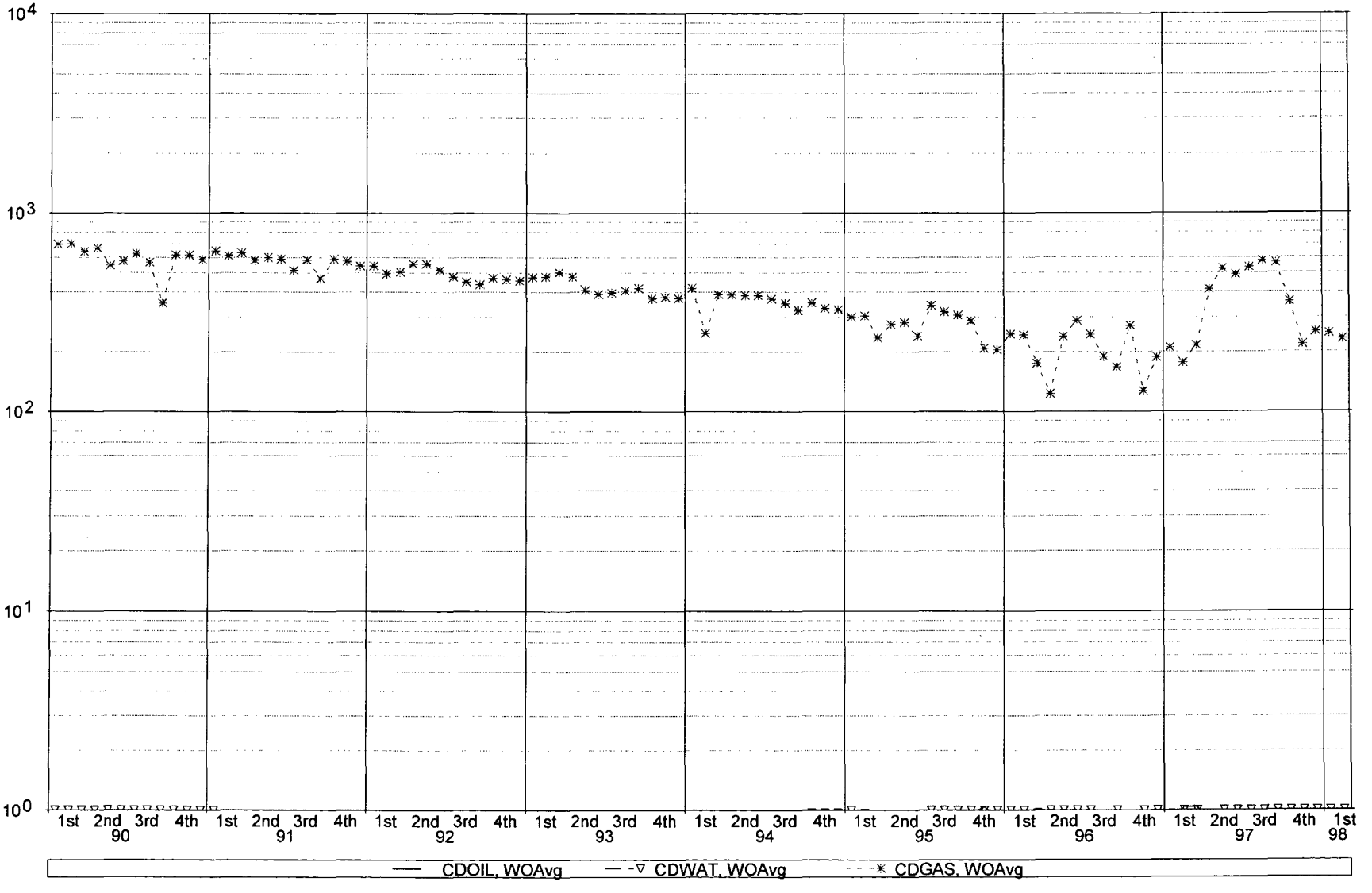
SIGNATURE

C.W. Freeman Prod. Spec
PRINTED NAME AND TITLE

3-10-98 505-394-1228
DATE TELEPHONE NO.

Chevron USA
03/31/1998,

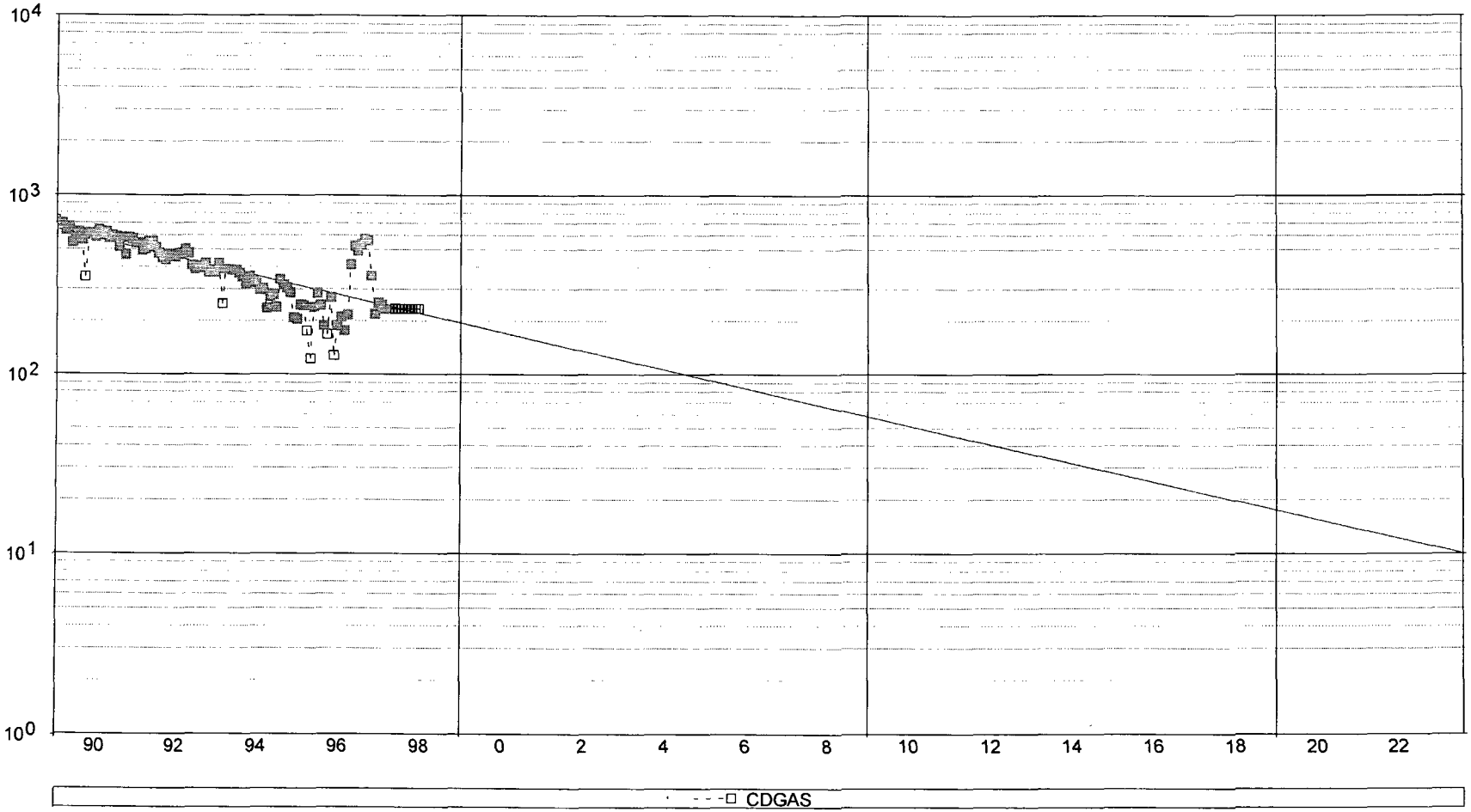
Lease: Well:	: J N CARSON	: 9	Footage	: 1874.000	: FSL
Field	: BLINEBRY OIL & GAS		Footage	: 2086.000	: FWL
API No.	: 30025068500002		Section	: 28	
Fld: Lse:	: U46 : 0800		Twnship	: S021	
Status	: FL		Range	: E037	



Chevron USA
03/31/1998,

Lease: Well: : J N CARSON : 9
Field : BLINEBRY OIL & GAS
API No. : 30025068500002
Fld: Lse: : U46 : 0800
Status : FL

Footage : 1874.000 : FSL
Footage : 2086.000 : FWL
Section : 28
Twnship : S021
Range : E037



Decline Stream: CDGAS Cum stream: GCUM, 7301673.0000
Fit Decline, 1/yr: Exp, 0.1203
Forecast Decline, 1/yr: Exp, 0.1203
Begin Date, Rate: 12/1/98, 218.89
End Date, Rate, Yrs: 7/24/2024, 10.00, 25.65
Cum at Begin: 7301673.00
Remaining: 634068.86
Total Reserves: 7935741.86

COMPANY: CUSA — CPHS 300 - WELL PRODUCTION HISTORY — 04/02/98

BUSINESS UNIT: MID-CONTINENT PRODUCTION B.U. — CHEVRON PRODUCTION HISTORY SYSTEM — * NONE *

PROFIT CENTER: PERMIAN GAS PC

FIELD: BLINEBRY OIL & GAS

PROPERTY: CARSON J N /NCT-A/ — UCA LEVEL 6: CARSON JN NCT A-BLINBRY

RESERVOIR: BLINEBRY — CARSON J N /NCT-A/ 9 (FA7947-02)

		Production per Calendar Day					Calc Values		Cumulative Production				
DATE	STAT	DAYS ON	OIL BPD	WTR BPD	GAS MCFD	CO2 MCFD	N2 MCFD	TOTAL GOR	WTR CUT%	CUM OIL MBBLS	CUM WTR MBBLS	CUM GAS MMCF	CUM CO2 MMCF	CUM N2 MMCF
01/94	FL	31	0		418					35	0	6857	0	0
02/94	FL	28	0		247					35	0	6864	0	0
03/94	FL	31	0		387					35	0	6876	0	0
04/94	FL	30	0		386					35	0	6887	0	0
05/94	FL	31	0		384					35	0	6899	0	0
06/94	FL	30	0		384					35	0	6911	0	0
07/94	FL	31	0		368					35	0	6922	0	0
08/94	FL	31	0		351					35	0	6933	0	0
09/94	FL	30	0		323					35	0	6943	0	0
10/94	FL	31	1	1	353			421000	53.6	35	0	6954	0	0
11/94	FL	30	1	1	330			380346	52.7	35	0	6964	0	0
12/94	FL	31	1	1	325			359500	51.7	35	0	6974	0	0
		365	0	0	356			1622125	52.7					
01/95	FL	31	1	1	298			329857	52.5	35	0	6983	0	0
02/95	FL	28	1	1	302			325346	50.9	35	0	6991	0	0
03/95	FL	30	1	0	235			279885	27.8	35	0	6999	0	0
04/95	FL	30	1		273			327400		35	0	7007	0	0
05/95	FL	31	1		280			347160		35	0	7016	0	0
06/95	FL	30	1	1	238			274538	51.9	35	0	7023	0	0
07/95	FL	31	1	1	342			365069	51.7	35	0	7033	0	0
08/95	FL	31	1	1	317			339000	51.7	35	0	7043	0	0
09/95	FL	30	1	1	306			316172	50.8	35	0	7052	0	0
10/95	FL	31	1	1	286			295133	50.8	35	0	7061	0	0
11/95	FL	30	1	1	208			201000	49.2	35	0	7067	0	0
12/95	FL	31	1	1	204			225643	52.5	35	1	7074	0	0
		364	1	1	274			301096	45.8					
01/96	FL	31	1	1	244			270679	52.5	35	1	7081	0	0
02/96	FL	29	1	1	243			281360	53.7	35	1	7088	0	0
03/96	FL	31	1	1	175			193464	51.7	35	1	7094	0	0
04/96	FL	30	1	1	122			141154	53.6	35	1	7097	0	0
05/96	FL	31	1	1	238			272963	53.4	35	1	7105	0	0
06/96	FL	30	1	1	285			388455	57.7	35	1	7113	0	0
07/96	FL	31	0	1	243			538857	68.9	35	1	7121	0	0
08/96	FL	31	0	1	188			530636	67.6	35	1	7127	0	0
09/96	FL	30	0	0	167					35	1	7132	0	0
10/96	FL	31	0	0	269			2088250	66.7	35	1	7140	0	0
11/96	FL	30	0	1	127			272000	68.2	35	1	7144	0	0
12/96	FL	31	1	1	187			361625	66.0	35	1	7150	0	0
		366	1	1	208			353274	58.6					

COMPANY: CUSA
BUSINESS UNIT: MID-CONTINENT PRODUCTION B.U.
PROFIT CENTER: PERMIAN GAS PC
FIELD: BLINEBRY OIL & GAS
PROPERTY: CARSON J N /NCT-A/
RESERVOIR: BLINEBRY

CPHS 300 - WELL PRODUCTION HISTORY
CHEVRON PRODUCTION HISTORY SYSTEM

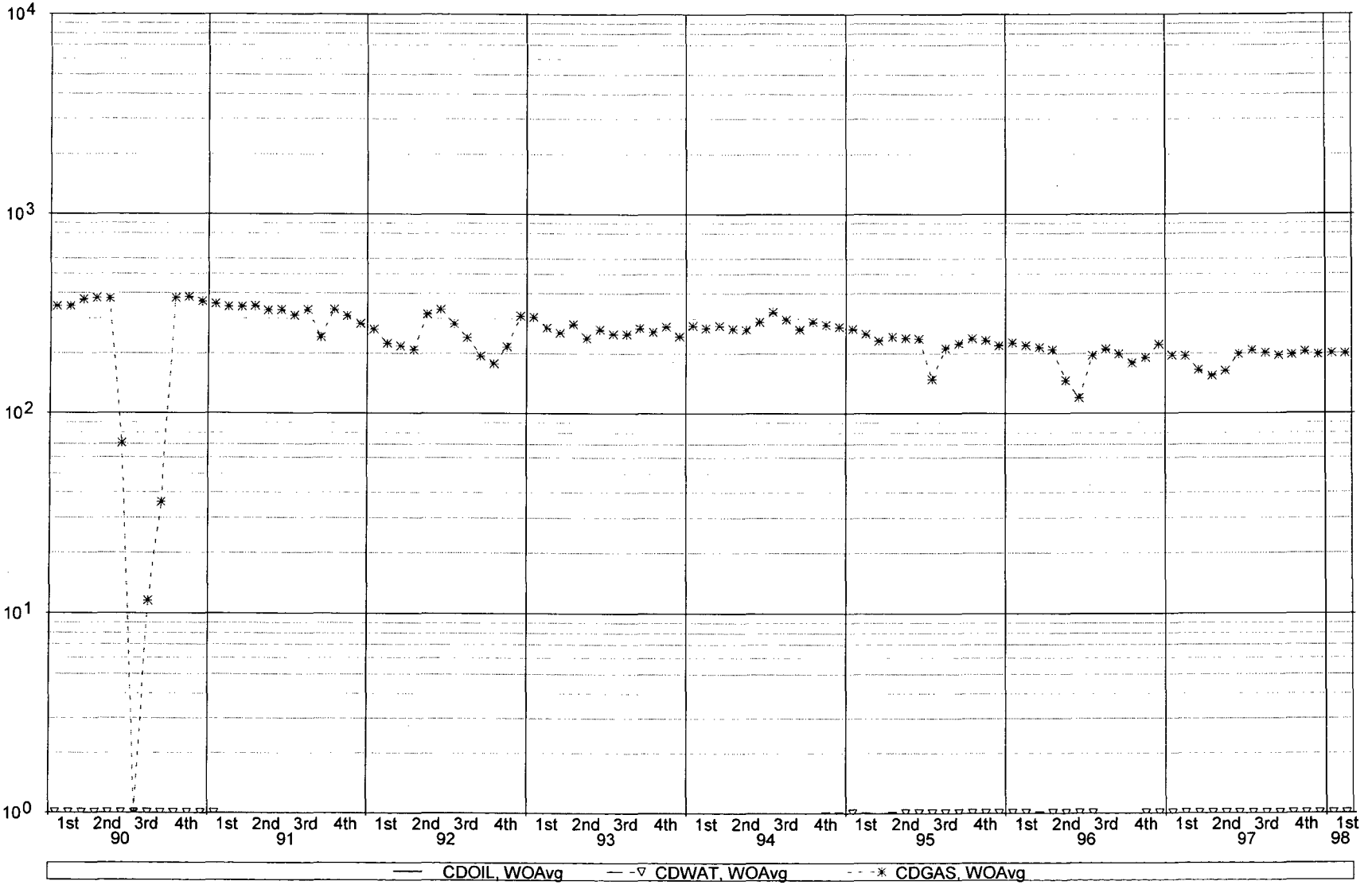
UCA LEVEL 6: CARSON JN NCT A-BLINBRY

CARSON J N /NCT-A/ 9 (FA7947-02)

		Production per Calendar Day					Calc Values		Cumulative Production				
DATE	STAT	DAYS ON	OIL BPD	WTR BPD	GAS MCFD	CO2 MCFD	N2 MCFD	TOTAL GOR	WTR CUT%	CUM OIL MBBLS	CUM WTR MBBLS	CUM GAS MMCF	CUM CO2 MMCF	CUM N2 MMCF
01/97	FL	31	1	0	210			270708	36.8	35	1	7156	0	0
02/97	FL	28	1	0	176			169828	0.0	35	1	7161	0	0
03/97	FL	31	1	0	215			208281	0.0	35	1	7168	0	0
04/97	FL	30	1	0	411			536696	36.1	35	1	7180	0	0
05/97	FL	31	0	1	524			1248846	70.5	35	1	7196	0	0
06/97	FL	30	0	1	490			1129923	69.8	35	1	7211	0	0
07/97	FL	31	0	1	533			1270462	70.5	35	1	7227	0	0
08/97	FL	31	0	1	576			2550429	81.6	35	1	7245	0	0
09/97	FL	30	0	1	560				100.0	35	1	7262	0	0
10/97	FL	31	0	1	356				100.0	35	1	7273	0	0
11/97	FL	30	0	1	217				100.0	35	1	7280	0	0
12/97	FL	31	0	1	252				100.0	35	1	7288	0	0
		365	0	1	378			895584	63.8					
01/98	FL	31	0	1	247				100.0	35	1	7295	0	0
02/98	FL	28	0	1	232				100.0	35	1	7302	0	0
		59	0	1	240				100.0					

Chevron USA
03/31/1998,

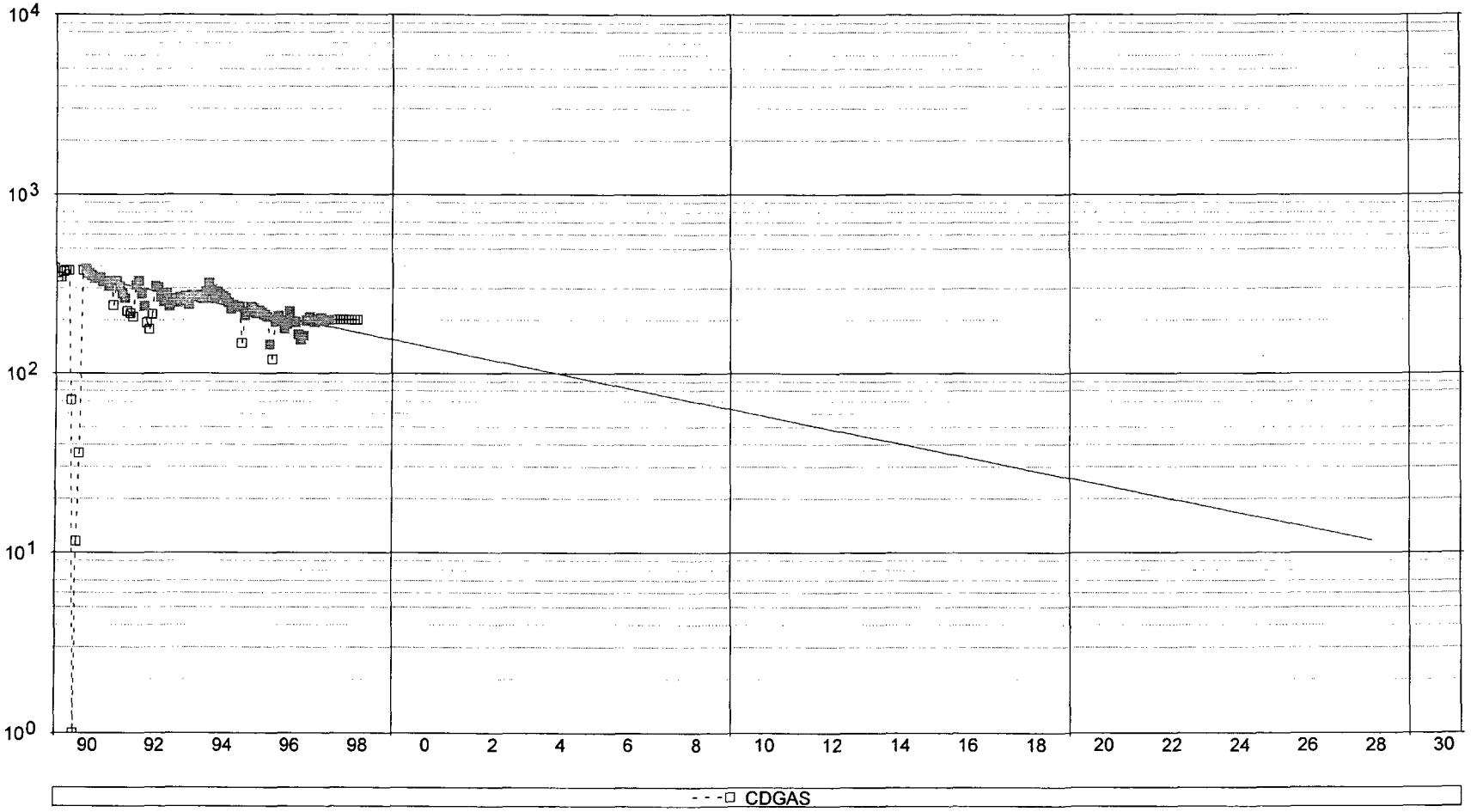
Lease: Well:	: J N CARSON	: 9	Footage	: 1874.000	: FSL
Field	: TUBB OIL & GAS		Footage	: 2086.000	: FWL
API No.	: 30025068500001		Section	: 28	
Fld: Lse:	: U47 : 2500		Twnship	: S021	
Status	: FL		Range	: E037	



Chevron USA
03/31/1998,

Lease: Well: : J N CARSON : 9
Field : TUBB OIL & GAS
API No. : 30025068500001
Fld: Lse: : U47 : 2500
Status : FL

Footage : 1874.000 : FSL
Footage : 2086.000 : FWL
Section : 28
Twnship : S021
Range : E037



Decline Stream: CDGAS Cum stream: GCUM, 2732130.0000
Fit Decline, 1/yr: Exp, 0.0892
Forecast Decline, 1/yr: Exp, 0.0892
Begin Date, Rate: 12/1/98, 168.62
End Date, Rate, Yrs: 11/30/2028, 11.60, 30.00
Cum at Begin: 2732130.00
Remaining: 642735.14
Total Reserves: 3374865.14

COMPANY: CUSA — CPHS 300 - WELL PRODUCTION HISTORY — 04/02/98
BUSINESS UNIT: MID-CONTINENT PRODUCTION B.U. — CHEVRON PRODUCTION HISTORY SYSTEM — * NONE *
PROFIT CENTER: PERMIAN GAS PC
FIELD: TUBB OIL & GAS
PROPERTY: CARSON J N /NCT-A/ — UCA LEVEL 6: CARSON J N NCT A-TUBB
RESERVOIR: TUBB — CARSON J N /NCT-A/ 9 (FA7947-01)

		Production per Calendar Day					Calc Values		Cumulative Production				
DATE	STAT	DAYS ON	OIL BPD	WTR BPD	GAS MCFD	CO2 MCFD	N2 MCFD	TOTAL GOR	WTR CUT%	CUM OIL MBBLS	CUM WTR MBBLS	CUM GAS MMCF	CUM CO2 MMCF	CUM N2 MMCF
01/94	FL	31	0		275					1	0	2405	0	0
02/94	FL	28	0		267					1	0	2412	0	0
03/94	FL	31	0		274					1	0	2420	0	0
04/94	FL	30	0		265					1	0	2428	0	0
05/94	FL	31	0		262					1	0	2437	0	0
06/94	FL	30	0		287					1	0	2445	0	0
07/94	FL	31	0		322					1	0	2455	0	0
08/94	FL	31	0		294					1	0	2464	0	0
09/94	FL	30	0		263					1	0	2472	0	0
10/94	FL	31	1	1	287			386522	53.1	1	0	2481	0	0
11/94	FL	30	1	1	277			319846	52.7	1	0	2489	0	0
12/94	FL	31	1	1	271			299679	51.7	1	0	2498	0	0
		365	0	0	279			1321130	52.5					
01/95	FL	31	1	1	264			292357	52.5	1	0	2506	0	0
02/95	FL	28	1	1	250			269000	50.9	1	0	2513	0	0
03/95	FL	29	1	1	230			274731	51.9	1	0	2520	0	0
04/95	FL	30	1	1	241			289680	53.7	1	0	2527	0	0
05/95	FL	31	1	1	237			294440	55.4	1	0	2535	0	0
06/95	FL	30	1	1	236			252929	51.7	1	0	2542	0	0
07/95	FL	31	1	1	148			157759	51.7	1	1	2546	0	0
08/95	FL	31	1	1	211			327400	60.8	1	1	2553	0	0
09/95	FL	30	0	1	222				100.0	1	1	2560	0	0
10/95	FL	31	0	1	236				100.0	1	1	2567	0	0
11/95	FL	30	0	1	232				100.0	1	1	2574	0	0
12/95	FL	31	0	1	218				100.0	1	1	2581	0	0
		363	1	1	227			400188	63.5					
01/96	FL	31	0	1	225				100.0	1	1	2588	0	0
02/96	FL	29	0	1	218			527333	70.7	1	1	2594	0	0
03/96	FL	31	1	1	214			236429	51.7	1	1	2600	0	0
04/96	FL	30	1	1	208			240077	53.6	1	1	2607	0	0
05/96	FL	31	1	1	146			167074	53.4	1	1	2611	0	0
06/96	FL	30	1	1	120			163227	57.7	1	1	2615	0	0
07/96	FL	31	0	1	195			431857	68.9	1	1	2621	0	0
08/96	FL	31	0	1	210			542583	70.7	1	1	2627	0	0
09/96	FL	30	0	1	198				100.0	1	1	2633	0	0
10/96	FL	31	0	1	179			1384750	83.3	1	1	2639	0	0
11/96	FL	30	0	1	190			406571	68.2	1	1	2645	0	0
12/96	FL	31	1	1	222			429250	66.0	1	1	2651	0	0
		366	0	1	194			404966	65.8					

COMPANY: CUSA
BUSINESS UNIT: MID-CONTINENT PRODUCTION B.U.
PROFIT CENTER: PERMIAN GAS PC
FIELD: TUBB OIL & GAS
PROPERTY: CARSON J N /NCT-A/
RESERVOIR: TUBB

CPHS 300 - WELL PRODUCTION HISTORY
CHEVRON PRODUCTION HISTORY SYSTEM

UCA LEVEL 6: CARSON J N NCT A-TUBB

CARSON J N /NCT-A/ 9 (FA7947-01)

		Production per Calendar Day					Calc Values		Cumulative Production				
DATE	STAT	DAYS ON	OIL BPD	WTR BPD	GAS MCFD	CO2 MCFD	N2 MCFD	TOTAL GOR	WTR CUT%	CUM OIL MBBLS	CUM WTR MBBLS	CUM GAS MMCF	CUM CO2 MMCF	CUM N2 MMCF
01/97	FL	31	1	1	195			378188	66.0	1	1	2657	0	0
02/97	FL	28	1	1	194			362267	65.1	1	1	2663	0	0
03/97	FL	31	1	1	165			319688	66.0	1	1	2668	0	0
04/97	FL	30	1	1	154			307800	66.7	1	1	2673	0	0
05/97	FL	31	0	1	163			388231	70.5	1	1	2678	0	0
06/97	FL	30	0	1	198			455769	69.8	1	1	2684	0	0
07/97	FL	31	0	1	207			492692	70.5	1	1	2690	0	0
08/97	FL	31	0	1	200				100.0	1	1	2696	0	0
09/97	FL	30	0	1	194				100.0	1	1	2702	0	0
10/97	FL	31	0	1	196				100.0	1	1	2708	0	0
11/97	FL	30	0	1	204				100.0	1	1	2714	0	0
12/97	FL	31	0	1	197				100.0	1	1	2720	0	0
		365	0	1	189			682416	78.3					
01/98	FL	31	0	1	200				100.0	1	1	2727	0	0
02/98	FL	28	0	1	199				100.0	1	1	2732	0	0
		59	0	1	199				100.0					

WELLBORE DIAGRAM

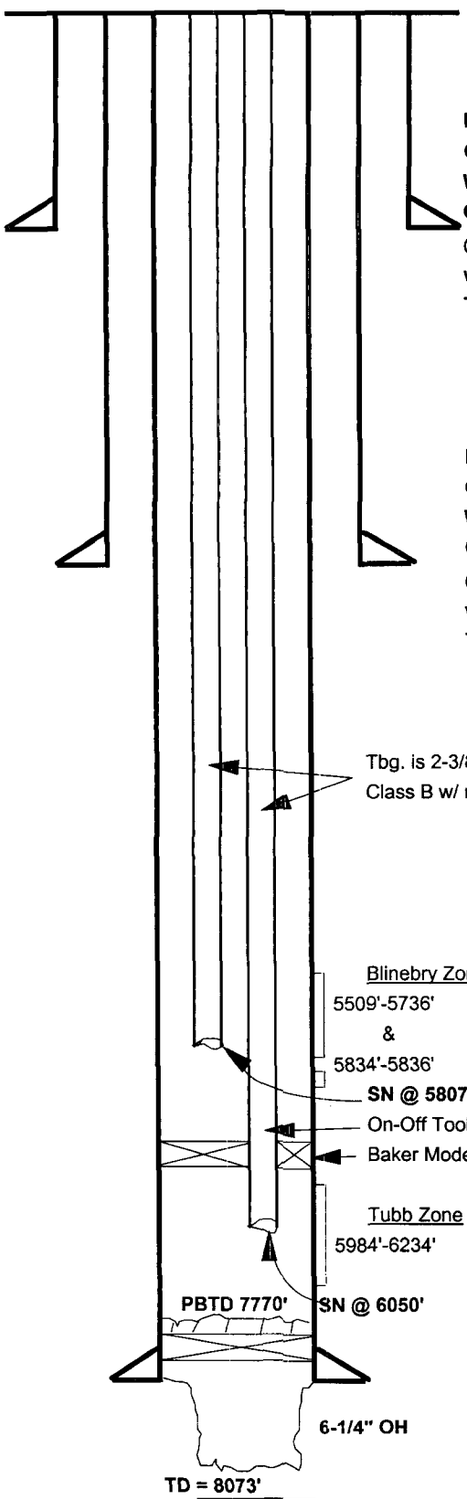
Last Updated: 3/30/98
By: AMB

WELL NAME: J. N. Carson (NCT-A) # 9

LOCATION: 1874 feet From S Line & 2086 feet From W Line; Unit: K Sec: 28 T: 21S R: 37E

COUNTY: Lea STATE: New Mexico

GE: 3450' KDB to GE: 6.8' DF to GE: '



Hole	17-1/2"
OD	13-3/8"
Wt.	48#
Gr.	H-40
@	317'
w/	300 sx. cmt.
TOC	Surface
	(Circulated)

Hole	12-1/4"
OD	9-5/8"
Wt.	36#
Gr.	H-40
@	2800'
w/	1300 sx. cmt.
TOC	1235'
	(by TS.)

Hole	8-3/4"
OD	7"
Wt.	23#
Gr.	H-Y & J-55#
@	7884'
w/	700 sx. cmt.
TOC	3065'
	(by TS.)

Spud Date: 12/22/48 @ 3 pm
Completion Date: 3/4/49
Initial Formation: Brunson (Ellenburger)
Interval Completed: From: 7884' To: 8073' OH

Initial Production:

BOPD:	1,716
MCFPD:	1479
BWPD:	0

Completion Data:

Flowed immediately upon drilling, no apparent completion.

Subsequent Workovers/Reconditionings/Repairs:

4/6/50 -	Installed gas lift equip.
5/26/51 -	Installed Reda downhole pump & plugged off water w/calseal & hyromite. PBTD @ 8005'. IP 276 BOPD/1332 BWPD
10/15/52 -	Replaced Reda pump. IP @143 BOPD/ 1538 BWPD
5/13/53 -	Replaced Reda pump. IP @ 76 BOPD/ 1465 BWPD/73.1 MCFPD
4/9/54-	Replaced Reda pump. IP @ 47 BOPD/ 1524 BWPD
9/14/55 -	Drilled out Hydromite plug & replaced Reda pump.
6/17/58 -	Cleaned out to TD @ 8073'. Perf'd. OH & aczd w/1000 gals 15% NEA. Ran Reda pump. IP @ 150 BOPD/1603 BWPD/60 MCFPD.
2/14/61 -	Replaced Reda pump after aczd. w/1500 gals 15% NEA. Brunson Cl as uneconomical to produce.
8/7/61 -	Abandoned Brunson zn w/7" Baker CIBP @ 7780' w/2sx cmt on top. Perf'd. 5834-36' w/4 1/2" JHPF. Acz'd. w/250 gals 15% NEA. & frac'd. w/7000 gals. ref. oil & 17,500# 20/40 sd. IP @ 2,511 MCF/D, 64 BOPD & trace of water.
8/9/76 -	Perf'd. Tubb zn 5984-6234' w/2 JHPF (26 holes) and Perf'd Blinebry 5509-5736' w/2 JHPF (20 holes). Trt'd. Tubb zn w/ 500 gals 15% NEA spot then pumped 3500 gals acid w/34 RCNB's having good ball action. Then spot acz'd Blinebry perfs 5509-5734' w/300 gals 15% NE HCL & 2500 gals acid w/RCNB's-little to no ball action. Frac'd. perfs w/10,000 gals gel pad then 25,000 gals gel w/ 50,000# sd. Then trt'd old perfs from 5834-36' w/750 gals 15% NE HCL. IP Blinebry @ 162 MCF/D & IP Tubb @ 926 MCF/D

Additional Remarks or Information:

MANLEY GAS TESTING, INC.
P.O. DRAWER 193 ODESSA, TEXAS 79760
OFFICE(915)367-3024 FAX(915)367-1166 E-MAIL: MANLEYGAS@AOL.COM

CHARGE..... 63 - 0 - 0
REC. NO. 17
TEST NUMBER.. 10303

DATE SAMPLED..... 10-09-97
DATE RUN..... 10-13-97
EFFEC. DATE..... 11-01-97

STATION NO. ... 161-000668 - BLINEBRY SIDE
PRODUCER ..... CHEVRON
LEASE NAME .... J.N. CARSON NCT A #9

LOCATION: WARREN EUNICE - PLANT #161

PRESSURE (WHEN TAKEN)..... 15 PSIG
PRESSURE (WHEN ANALYZED) .. 17 PSIG
SAMPLED BY:

TEMPERATURE (WHEN TAKEN) .... 0 F
TEMPERATURE (WHEN ANALYZED).. 130 F
CYLINDER NO. ... 0

FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (IDEAL)
HYDROGEN SULFIDE...	0.017	
NITROGEN.....	1.895	
CARBON DIOXIDE.....	0.321	
METHANE.....	77.234	
ETHANE.....	10.449	2.779
PROPANE.....	5.444	1.492
ISO-BUTANE.....	0.684	0.223
NOR-BUTANE.....	1.875	0.588
ISO-PENTANE.....	0.467	0.170
NOR-PENTANE.....	0.578	0.208
HEXANES + ...	1.036	0.444
TOTALS	100.000	5.904

CORRECTED H2S PPMV = 167

'Z' FACTOR (DRY) = 0.9961
'Z' FACTOR (WET) = 0.9958

..CALCULATED SPECIFIC GRAVITIES..

IDEAL, DRY..... 0.7529
IDEAL, WET 0.7506
REAL, DRY 0.7555
REAL, WET 0.7535

..CALCULATED GROSS HEATING VALUES..

BTU/CF - IDEAL, DRY 1276
BTU/CF - IDEAL, WET 1255
BTU/CF - REAL, DRY 1281
BTU/CF - REAL, WET 1260

DISTRIBUTION AND REMARKS:

2CC: PLANT / 1CC: MID-CONTINENT

S.COOPER

NOTE: BTU VALUES CALCULATED ON H2S-FREE BASIS

ANALYZED BY: JT
** R **

APPROVED:

MANLEY GAS TESTING, INC.
P.O. DRAWER 193 ODESSA, TEXAS 79760
OFFICE(915)367-3024 FAX(915)367-1166 E-MAIL: MANLEYGAS@AOL.COM

CHARGE..... 63 - 0 - 0
REC. NO. 11
TEST NUMBER.. 10297

DATE SAMPLED..... 10-09-97
DATE RUN..... 10-13-97
EFFEC. DATE..... 11-01-97

STATION NO. ... 161-000667 – TUBE SIDE
PRODUCER ..... CHEVRON
LEASE NAME .... J.N. CARSON NCT A #9T

LOCATION: WARREN EUNICE - PLANT #161

PRESSURE (WHEN TAKEN)..... 15 PSIG
PRESSURE (WHEN ANALYZED) .. 18 PSIG
SAMPLED BY:

TEMPERATURE (WHEN TAKEN) .... 0 F
TEMPERATURE (WHEN ANALYZED).. 130 F
CYLINDER NO. ... 0

FRACTIONAL ANALYSIS
CALCULATED @ 14.650 PSIA AND 60F

	MOL%	GPM (IDEAL)
HYDROGEN SULFIDE...	0.001	
NITROGEN.....	2.132	
CARBON DIOXIDE.....	0.063	
METHANE.....	78.529	
ETHANE.....	10.167	2.704
PROPANE.....	5.295	1.451
ISO-BUTANE.....	0.637	0.207
NOR-BUTANE.....	1.720	0.539
ISO-PENTANE.....	0.375	0.137
NOR-PENTANE.....	0.456	0.164
HEXANES + ...	0.625	0.268
TOTALS	100.000	5.470

CORRECTED H2S PPMV = 6

'Z' FACTOR (DRY) = 0.9964
'Z' FACTOR (WET) = 0.9960

..CALCULATED SPECIFIC GRAVITIES..

IDEAL, DRY..... 0.7306
IDEAL, WET 0.7287
REAL, DRY 0.7329
REAL, WET 0.7313

..CALCULATED GROSS HEATING VALUES..

BTU/CF - IDEAL, DRY 1244
BTU/CF - IDEAL, WET 1223
BTU/CF - REAL, DRY 1248
BTU/CF - REAL, WET 1228

DISTRIBUTION AND REMARKS:

2CC: PLANT / 1CC: MID-CONTINENT

S.COOPER

NOTE: BTU VALUES CALCULATED ON H2S-FREE BASIS

ANALYZED BY: JT
** R **

APPROVED: