

DHC 11/17/97



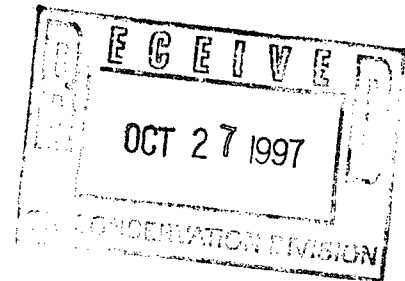
Chevron

1736

October 22, 1997

**Request for Exception to Rule 303-A
Downhole Commingling
Blinebry Oil & Gas Pool and Tubb (Pro Gas) Pool
Harry Leonard (NCT-E) #4
660' FNL & 660' FEL
Unit A, Section 16, T-21-S, R-37-E
Lea County, New Mexico**

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



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

Attention: Mr. William J. LeMay, Director

Dear Mr. LeMay:

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 Oil & Gas (Oil) 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 6000'. The proposed downhole commingling will allow the continued production rate in the Blinebry zone while restoring the production rate in the Tubb zone to previous higher levels. 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 to all affected offset operators and the Commissioner of Public Lands via Certified Mail.

If there are any questions or you should 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



CHEVRON U. S. A., INC.

Request for Exception to Rule 303-A
Downhole Commingling
Blinebry Oil & Gas Pool and Tubb (Pro Gas) Pool
Harry Leonard (NCT-E) #4
660' FNL & 660' FEL
Unit A, Section 16, T-21-S, R-37-E
Lea County, New Mexico

Offset Operators

Altura Energy, Ltd.
P. O. Box 4294
Houston, Texas 77210-4294

Amerada Hess Corporation
500 Dallas Street
Houston, Texas 77002

Amoco Production Company
P. O. Box 4072
Odessa, Texas 79760

Conoco, Inc.
10 Desta Dr. West, Ste. 100W
Midland, Texas 79705

Exxon Corporation
P. O. Box 4698
Houston, Texas 77210-4698

John H. Hendrix Corporation
P. O. 3040
Midland, Texas 79702

Shell Western E&P, Inc.
P. O. Box 576
Houston, Texas 77001

Texaco E&P, Inc.
P. O. Box 3109
Midland, Texas 79702

Commissioner of Public Lands
Attn: James Lewis, Dir.-O&G Dept.
P. O. Box 1148
State Land Office Bldg.
Santa Fe, New Mexico 87501

DISTRICT I

P.O. Box 1990, Hobbs, NM 88240

DISTRICT II

911 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Grande Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6420Form C-107-A
New 3-12-86

APPROVAL PROCESS:

___ Administrative ___ Hearing

EXISTING WELLBORE

___ YES ___ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Chevron U.S.A. Production Company

P. O. Box 1150

Operator

Address

Harry Leonard (NCT-E) #4

A-16-21S-37E

Lea

Lease

Well No.

Unit ID: Sec. 1 Twp. 1 N 10 E

County

OARID NO. 4323

Property Code

002669

API NO.

30-025-06623

Spacing Unit Lease Type: (check 1 or more)

Federal ___ State ☒ Local ___

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Blinebry Oil & Gas (Oil) 06660		Tubb (Pro Gas) 86440
2. Top and Bottom of Pay Section (Perforations)	5793'-5888', 5915', 5945'		6185'-6290'
3. Type of production (Oil or Gas)	Oil		Gas
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 148# (Estimated) b. (Original) 1948 Est. (7/14/54)	a. b.	a. 196# (Estimated) b. 2032 Est. (7/21/54)
6. Oil Gravity (° API) or Gas BTU Content	38°		1226
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 * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates: Date: 8-27-97 Rates: 2/70/0	Date: Rates: Date: Rates:	Date: Rates: Date: 8-20-97 Rates: 0/75/1
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 100 % Gas: 25 %	Oil: % Gas: %	Oil: 0 % Gas: 75 %

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? ☒ 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? ☒ Yes ___ No11. Will cross-flow occur? ___ Yes ☒ 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. ___ Yes ___ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ___ No13. Will the value of production be decreased by commingling? ___ Yes ☒ 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. ☒ 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 explanation.)
- * 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

10/21/97

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 Oil & Gas Pool and
Tubb (Pro Gas) Pool
Harry Leonard (NCT-E) #4

Additional Statements to Form C-107-A

5a. Bottomhole Pressure

The Blinebry (or upper completion) is currently producing by artificial lift and is generally kept in a "pumped-off" state. The bottom hole pressure is estimated using an anticipated fluid level of 300' above the pump or seating nipple and a shut-in pressure of 170 psi from a recent packer leakage test. The calculated BHP is reasonable with pressures observed in this area and formation.

The Tubb (or lower completion) is currently producing, flowing, from beneath a packer. The BHP is estimated utilizing an assumed full column of gas and a recent gas analysis (attached), as any fluid levels and resulting pressure measurements would be indeterminate due to restrictions caused by questionable downhole equipment configuration and swabbing cups and other wireline debris downhole on this side. This calculated BHP is also consistent with anticipated pressures and those observed in this area and formation.

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, as stated below, the Tubb (Pro Gas) production is anticipated to restore itself to pre-July levels which would render this portion of the production as no longer being economically marginal.

8 & 9. Fixed Percentage Allocation

Although current production tests for this well would indicate an approximate 50% / 50% split in allocation of gas production between Blinebry O&G (Casinghead Gas) and Tubb (Pro Gas), it is anticipated that the Tubb (Pro Gas) test of 75 MCF/D will increase to its pre-July average of around 204 MCF/D. This would suggest, with Blinebry pre-July average of 67 MCF/D, a 25% / 75% split in allocating gas production between the Blinebry O&G (Casinghead Gas) and Tubb (Pro Gas), respectively, would be more appropriate.

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 a copy of this application, sent certified mail, we are notifying all affected offset operators (see list) of this proposed downhole commingling as well as 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 Blinbry zone, thus the value will not be adversely affected by commingling.

14. New Mexico State Land

The principal land owner for the Harry Leonard (NCT-E) lease is the State of New Mexico and therefore the Commissioner of Public Lands is being sent a copy of this application and OCD Form C-107-A, by certified mail, as notification of this downhole commingle proposal.

16. Attachments

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

- a. OCD Form C-102 plats for each zone 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-107-A)

CHEVRON U. S. A., INC.

Request for Exception to Rule 303-A

Downhole Commingling

Blinebry Oil & Gas Pool and

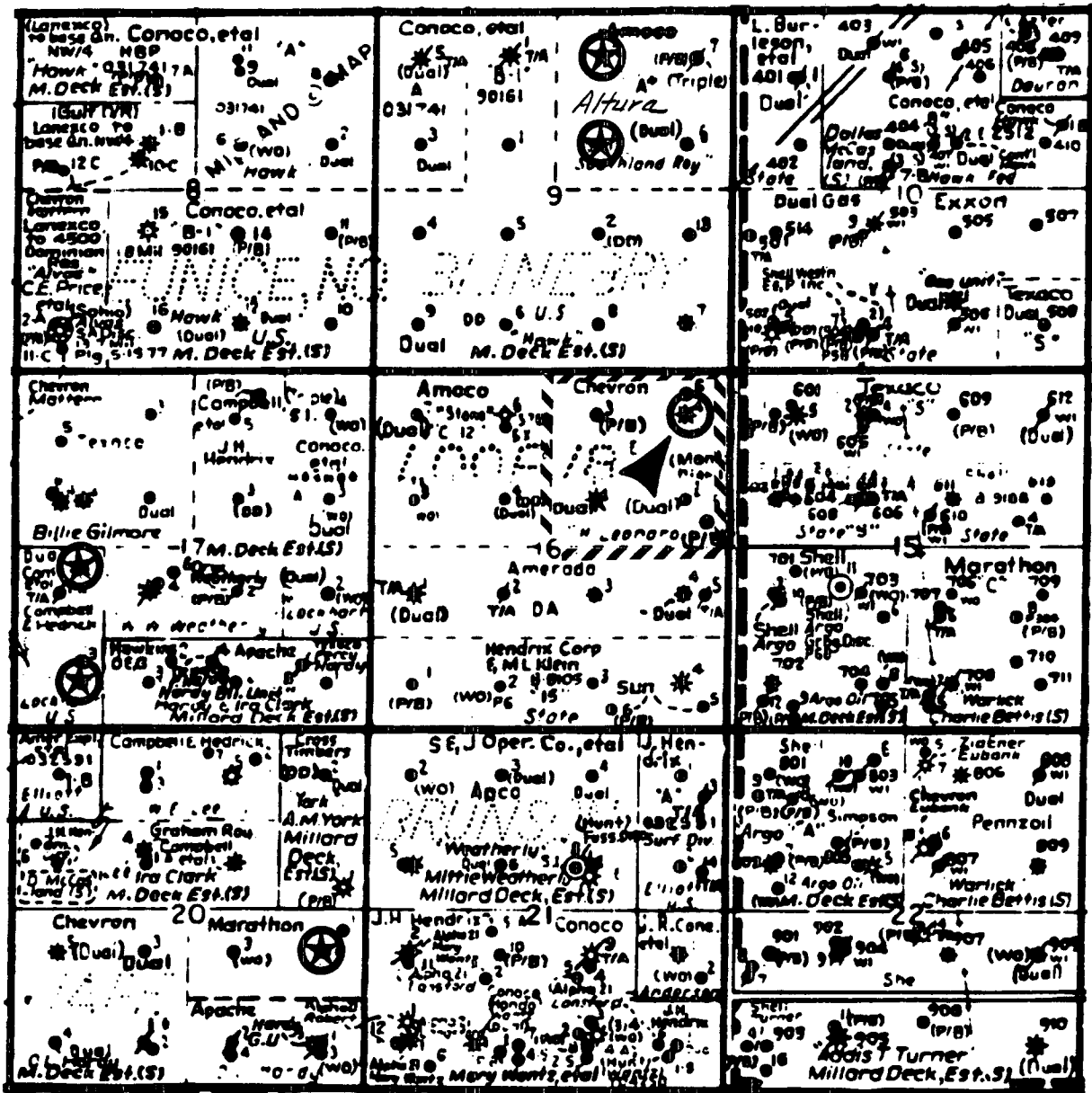
Tubb (Pro Gas) Pool

Harry Leonard (NCT-E) #4

660' FNL & 660' FEL

Unit A, Section 16, T-21-S, R-37-E

Lea County, New Mexico



Denotes wells currently Downhole Commingled in Blinebry and Tubb

District I
PO Box 1900, Hobbs, NM 88241-1900
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Bravo 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 30-025-06623		Pool Code 06660		Pool Name Blinebry Oil and Gas (Oil)	
Property Code 002669		Property Name Harry Leonard (NCT-E)			Well Number 4
OGRID No. 4323		Operator Name Chevron U.S.A. Inc.			Elevation

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	21S	37E		660	North	660	East	Lea

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedication Acres 40	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>Alan W. Bohling</i> Signature Alan W. Bohling Printed Name Petroleum Engineer Title October 20, 1997 Date
				18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was placed 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	

0 = Other active Blinebry Oil and Gas wells on lease.

District I
PO Box 1908, Hobbs, NM 88241-1908
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
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-025-06623		* Pool Code 86440	* Pool Name Tubb (Pro Gas)
* Property Code 002669	* Property Name Harry Leonard (NCT-E)		* Well Number 4
* OGRID No. 4323	* Operator Name Chevron U.S.A. Inc.		* Elevation

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	16	21S	37E		660	North	660	East	Lea

* Dedication Acres 160	* Joint or Infill	* Consolidation Code	* Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					660' 4
		16			

17 OPERATOR CERTIFICATION

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

Alan W. Bohling
Signature
Alan W. Bohling
Printed Name
Petroleum Engineer
Title
October 20, 1997
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

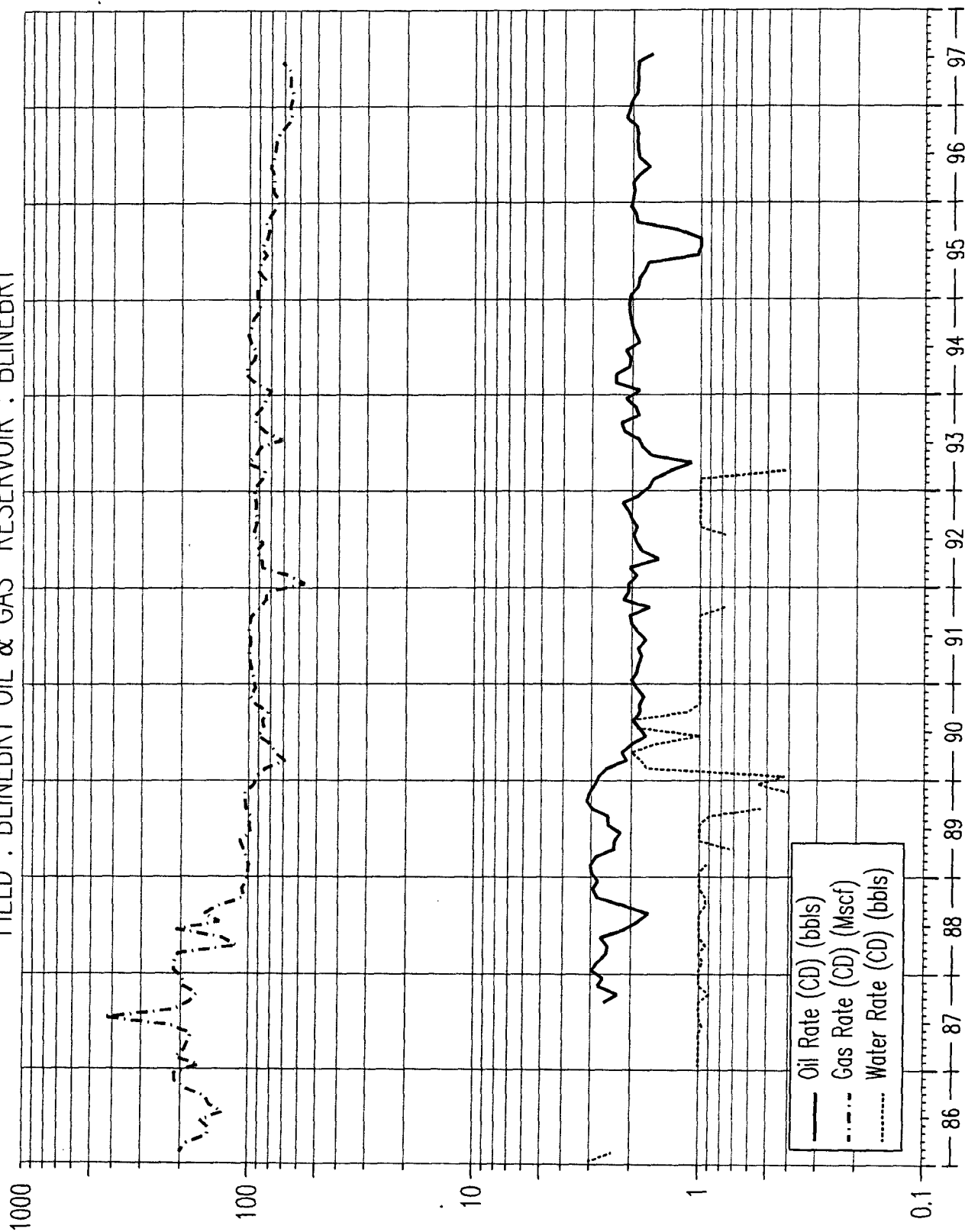
Certificate Number

STANDARD
DATE 1-23-91
PRINTED NAME AND TITLE W. F. Ferguson, Asst. Dir. Field Operations
TELEPHONE NO. 505-394-1229

CHEVRON U.S.A.

LEASE : LEONARD H /NCT-E/ 4

FIELD : BLINEBRY OIL & GAS RESERVOIR : BLINEBRY



CHEVRON U.S.A.

LEASE : LEONARD H /NCT-E/ 4

FIELD : BLINEBRY OIL & GAS RESERVOIR : BLINEBRY

DATE	OIL RATE (CD) bbls	Cum Oil Prod Mbbbls	GAS RATE (CD) Mscf	Cum Gas Prod MMscf	WATER RATE (CD) bbls	GAS OIL RATIO Mscf/bbls
9302	2	60	88	3890	1	54
9303	1	60	86	3892	0	63
9304	1	60	101	3895	0	92
9305	2	60	93	3898	0	57
9306	2	60	89	3901	0	50
9307	2	60	72	3903	0	38
9308	2	60	85	3906	0	39
9309	2	60	94	3908	0	42
9310	2	60	94	3911	0	50
9311	2	61	87	3914	0	45
9312	2	61	85	3917	0	40
9401	2	61	80	3919	0	43
9402	2	61	94	3922	0	40
9403	2	61	102	3925	0	43
9404	2	61	102	3928	0	49
9405	2	61	94	3931	0	46
9406	2	61	93	3934	0	44
9407	2	61	98	3937	0	53
9408	2	61	101	3940	0	52
9409	2	61	98	3943	0	49
9410	2	61	96	3946	0	47
9411	2	61	91	3948	0	44
9412	2	61	90	3951	0	44
9501	2	61	92	3954	0	45
9502	2	61	92	3957	0	48
9503	2	62	85	3959	0	46
9504	2	62	90	3962	0	51
9505	2	62	90	3965	0	52
9506	1	62	84	3967	0	81
9507	1	62	88	3970	0	88
9508	1	62	84	3973	0	84
9509	1	62	82	3975	0	65
9510	2	62	84	3978	0	44
9511	2	62	80	3980	0	42
9512	2	62	76	3983	0	37
9601	2	62	75	3985	0	37
9602	2	62	78	3987	0	40
9603	2	62	78	3990	0	39
9604	2	62	78	3992	0	42
9605	2	62	80	3994	0	48
9606	2	62	79	3997	0	42
9607	2	62	77	3999	0	41
9608	2	62	76	4001	0	40
9609	2	62	74	4004	0	39
9610	2	63	69	4006	0	36
9611	2	63	65	4008	0	31
9612	2	63	66	4010	0	32
9701	2	63	65	4012	0	32
9702	2	63	64	4014	0	33

CHEVRON U.S.A.

LEASE : LEONARD H /NCT-E/ 4

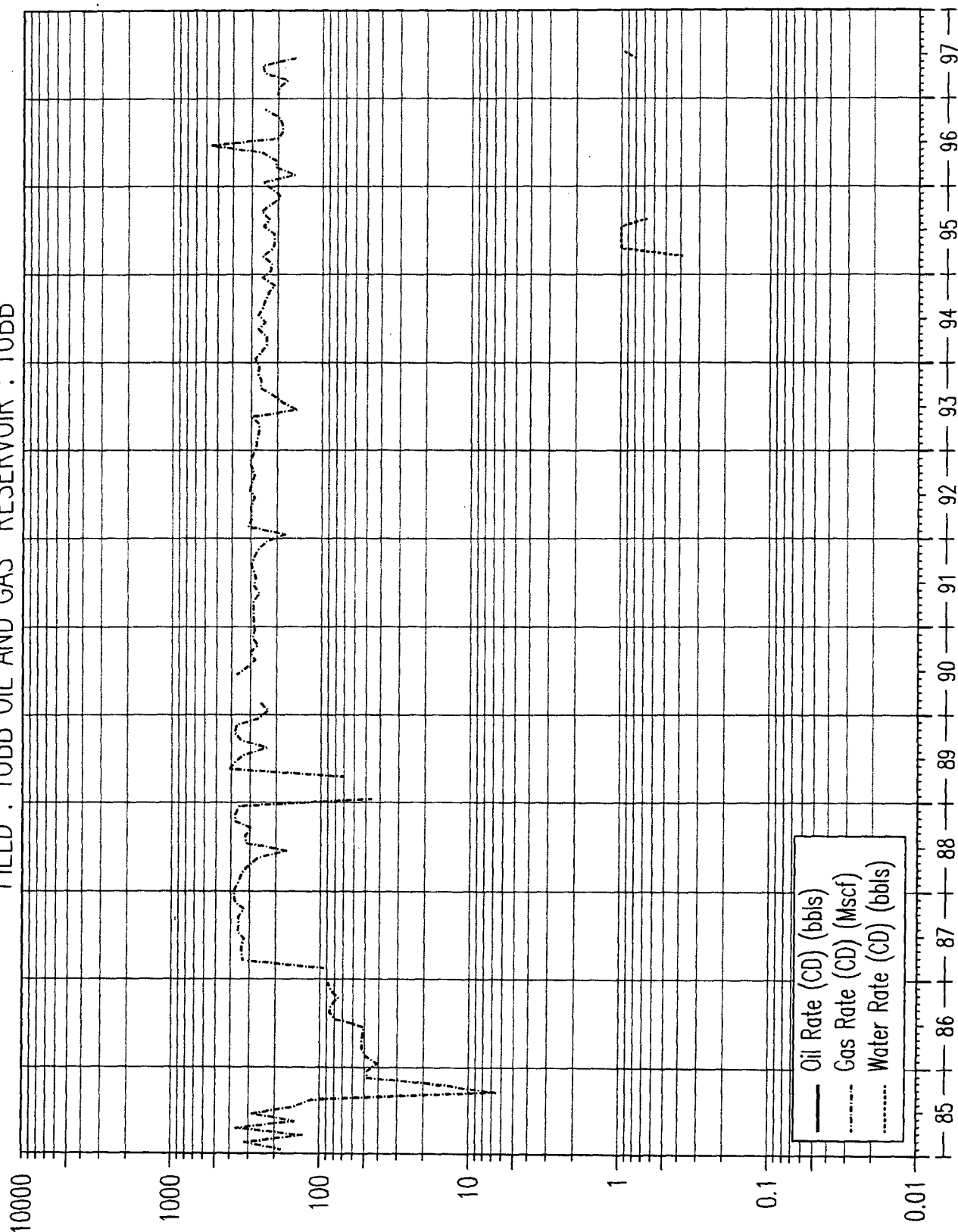
FIELD : BLINEBRY OIL & GAS RESERVOIR : BLINEBRY

DATE	OIL RATE (CD) bbls	Cum Oil Prod Mbbls	GAS RATE (CD) Mscf	Cum Gas Prod MMscf	WATER RATE (CD) bbls	GAS OIL RATIO Mscf/bbls
9703	2	63	66	4016	0	35
9704	2	63	66	4018	0	35
9705	2	63	67	4020	0	35
9706	2	63	71	4022	0	38
9707	2	63	0	4022	0	0

CHEVRON U.S.A.

LEASE : LEONARD H /NCT-E/ 4

FIELD : TUBB OIL AND GAS RESERVOIR : TUBB



CHEVRON U.S.A.

LEASE : LEONARD H /NCT-E/ 4

FIELD : TUBB OIL AND GAS RESERVOIR : TUBB

DATE	OIL RATE (CD) bbls	Cum Oil Prod Mbbbls	GAS RATE (CD) Mscf	Cum Gas Prod MMscf	WATER RATE (CD) bbls	GAS OIL RATIO Mscf/bbls
9206	0	20	283	5664	0	*
9207	0	20	304	5674	0	*
9208	0	20	296	5683	0	*
9209	0	20	283	5691	0	*
9210	0	20	294	5700	0	*
9211	0	20	304	5709	0	*
9212	0	20	287	5718	0	*
9301	0	20	277	5727	0	*
9302	0	20	273	5735	0	*
9303	0	20	265	5743	0	*
9304	0	20	264	5751	0	*
9305	0	20	296	5760	0	*
9306	0	20	147	5764	0	*
9307	0	20	186	5770	0	*
9308	0	20	215	5777	0	*
9309	0	20	259	5784	0	*
9310	0	20	256	5792	0	*
9311	0	20	271	5801	0	*
9312	0	20	265	5809	0	*
9401	0	20	281	5817	0	*
9402	0	20	255	5825	0	*
9403	0	20	237	5832	0	*
9404	0	20	236	5839	0	*
9405	0	20	269	5847	0	*
9406	0	20	244	5855	0	*
9407	0	20	268	5863	0	*
9408	0	20	251	5871	0	*
9409	0	20	243	5878	0	*
9410	0	20	231	5885	0	*
9411	0	20	209	5891	0	*
9412	0	20	253	5899	0	*
9501	0	20	224	5906	0	*
9502	0	20	219	5912	0	*
9503	0	20	252	5920	0	*
9504	0	20	218	5927	1	*
9505	0	20	210	5933	1	*
9506	0	20	213	5940	1	*
9507	0	20	250	5947	1	*
9508	0	20	229	5954	1	*
9509	0	20	256	5962	0	*
9510	0	20	221	5969	0	*
9511	0	20	192	5975	0	*
9512	0	20	216	5982	0	*
9601	0	20	253	5989	0	*
9602	0	20	155	5994	0	*

CHEVRON U.S.A.

LEASE : LEONARD H /NCT-E/ 4

FIELD : TUBB OIL AND GAS RESERVOIR : TUBB

DATE	OIL RATE (CD) bbls	Cum Oil Prod Mbbls	GAS RATE (CD) Mscf	Cum Gas Prod MMscf	WATER RATE (CD) bbls	GAS OIL RATIO Mscf/bbls
9603	0	20	205	6000	0	*
9604	0	20	207	6006	0	*
9605	0	20	252	6014	0	*
9606	0	20	567	6031	0	*
9607	0	20	200	6037	0	*
9608	0	20	186	6043	0	*
9609	0	20	187	6049	0	*
9610	0	20	202	6055	0	*
9611	0	20	243	6062	0	*
9612	0	20	0	6062	0	*
9701	0	20	201	6069	0	*
9702	0	20	197	6074	0	*
9703	0	20	173	6079	0	*
9704	0	20	247	6087	0	*
9705	0	20	252	6095	0	*
9706	0	20	153	6099	1	*
9707	0	20	0	6099	1	*

WELLBORE DIAGRAM

Last Updated: 9/16/97

By: A.W. Bohling

WELL NAME: Harry Leonard (NCT-E) #4 API# 30-025-06623
 LOCATION: 660 feet From N Line & 660 feet From E Line; S: 16 T: 215 R: 37E
 COUNTY: Lea STATE: NM

GE: 3475 ' KDB to GE: _____ ' DF to GE: _____ ' Spud Date: 9/25/48Completion Date: 12/1/48Initial Formation: DrinkardInterval Completed: From: 6645 To: 6699 off

Initial Production:

BOPD: 5-6 BOPDMCFPD: 222 MCFPDBWPD: 5-6 BWPD

} Oil Portion only

Initial Oil Gravity = 38.5 API

Completion Data:

11/12/48 - Aczd w/1000 gals 15% NEFE11/16/48 - Aczd w/1000 gals 15% NEFE11/16/48 - Aczd w/3000 gals 15% NEFE

Hole 17 1/4 "
 OD 13 3/8 "
 Wt. 48 #
 Gr. H-40, R2, SS
 @ 297 '
 w/ 300 sq. cmt.
 TOC Circ. '

Hole 12 1/4 "
 OD 9 5/8 "
 Wt. 36 #
 Gr. H-40, R3, SS
 @ 2800 '
 w/ 1300 sq. cmt.
 TOC 540 ' by TS

Subsequent Workovers/Reconditionings/Repairs:

3/15/54 Plugged off Drkd zone & perf'd
 Tubb zone 6185-6290' & Blinbry
 zone from 5585-5640' & 5660-5720'
 w/4 1/2" JHPF. Treated Blinbry zn
 w/4000 gals 15% LTNE acid. JPD
 Blinbry @ 2080 MCFPD and Tubb @
3/20/54 4,870 MCFPD.

7/22/63 Sqzd Blinbry Perfs 5585-5720' & pushed
 CIBP @ 6350 down to 6680

Perfd Drkd 6565-6624' w/5 1" holes
 Set CIBP @ 6612' w/2 sk cmt on top -

7/25/63 Aczd perfs 6565-6624' w/4450 gals
 15% NEA Then trtd in 3 stages each
 with 250 gals 15% NEA & 4750 gals TGA
 dropping 5 1/4" HCHPS ex stage.

7/22/63 Perfd Blinbry 5793-5888 w/5 1" holes
 + Aczd perfs w/1000 gals 15% NEFE

7/30/63 Fracd perfs w/20,000 gals gelled lse oil
 containing 1.5-3# SPG

8/23/63 Tested Drkd - not commercial so
 set CIBP @ 6350 capped w/2 sk cmt.

9/6/63 Aczd Tubb perfs 6185-6290' w/500 gals
 15% MCA. Dual Completed Tubb Gas

w/ Blinbry Oil

9/17/74 Trtd Blinbry Perfs 5793-5888 w/1000
 gals 15% NEA. Re-classed to gas well.

7/8/85 Perfd 5915' & 5945' w/4 JHPF Then
 Acid fracci all Blinbry w/18000 gals
 15% NEFE - Blinbry Oil

** 23 Jts A.O. Smith R-3 on bottom Re-dual completed.
 175 Jts. J-55 R-2 on top

Additional Remarks or Information:

PLEASE CHECK TBS DETAILS FOR MORE ACCURATE RECORD ON PKRS ETC.

Harry Leonard (NCT-E) #4
Tubb (Pro Gas) - Gas Analysis



806-797-4325 □ P.O. BOX 64489 □ LUBBOCK, TX 79464-4489
 806-669-6821 □ P.O. BOX 2439 □ PAMPA, TX 79068-2439

GAS / VAPOR FRACTIONAL ANALYSIS

SAMPLE ID	COMPONENT	MOL %	GPM
Customer..... Warren Petroleum Co.	Hyd.Sulf. H ₂ S	0.001	(Ideal)
	Nitrogen N ₂	2.040	
Station No.... 161000673	Carbon D. CO ₂	0.074	
Operator..... Chevron	Methane C ₁	77.963	
Lease..... Leonard	Ethane C ₂	10.893	2.898
Plant..... Eunice	Propane C ₃	5.307	1.454
Sample Point.. N/A	i-Butane iC ₄	0.657	0.214
Pressure..... 15 psig	n-Butane nC ₄	1.605	0.503
Temperature... N/A	i-Pentane iC ₅	0.357	0.130
Atm. Temp..... N/A	n-Pentane nC ₅	0.408	0.147
Sample Date... 03/13/97	Hexanes+ C ₆ +	0.695	0.284
Effective Date	Totals:	100.000	5.630
Sampled By.... WPC/			
Sample Cyl.No. PL2087			

Field H₂S..... 6 ppmv (corrected)
 Lab Pressure.. 20 psig at 150 F
 Analysis Date. 03/20/97

CALCULATIONS / METHODS

14.65 psia & 60 F
 Current GPA methods and procedures
 n-Hexane constants used for C₆+

DISTRIBUTION

Warren Petroleum Company
 3-Jerry Collis; Eunice, NM

GASOLINE CONTENT, Ideal GPM

(For Test Car Equivalent)
 Pentanes & Heavier 0.561

HEATING VALUE, Ideal Gross Btu/CF

Water Vapor Saturated .. 1226.3
 Dry 1247.2

SPECIFIC GRAVITY

Real, Water Saturated .. 0.7324
 Ideal, Dry 0.7317

COMPRESSIBILITY FACTOR (Z)

Water Vapor Saturated .. 0.99602
 Dry 0.99640

REMARKS / COMMENTS / OTHER

Approved: R. Popejoy

W.P.C. Approved:



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

10/29/97

GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC X _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Chevron USA Inc H Leonard NCT-E #4-A-16-21537e
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

Recommend approval.

Yours very truly,

Chris Williams

Chris Williams
Supervisor, District 1

/ed