

District I
1625 N. Franch Drive, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION TYPE
☒ Single Well
☐ Establish Pre-Approved Pools
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Chevron Corporation 15 Smith Road, Midland TX 79705
Operator Address

Harry Leonard E #1 G-16-21S-37E United States
Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 4323 Property Code 2669 API No. 30-025-06620 Lease Type: Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly	Blinebry Oil & Gas	Drinkard
Pool Code	50350	06660	19190
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3770'-3972'	5822'-5960'	6438'-6590'
Method of Production (Flowing or Artificial Lift)	Artificial Lift, pending OCD approval	Artificial Lift, pending OCD approval	Artificial Lift, pending OCD approval
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	1127 PSI, Calculated from fluid level on offset (H Leonard E #5)	115 PSI, fluid level from offset (48 hr SI)	322 PSI, fluid level from offset (48 hr SI)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	31.2°	39.8°	N/A (gas)
Producing, Shut-In or New Zone	Producing	Shut-in	Shut-in
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: 5/13/2005 Rates: 17/29/84	Date: 4/18/2002 Rates: 4/1/62	Date: 4/18/2002 Rates: 0/0/39
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 81% Gas 45%	Oil 19% Gas 34%	Oil 0% Gas 21%

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

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

NMOCD Reference Case No. applicable to this well: _____

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 working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

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

SIGNATURE Keith Lopez TITLE Petroleum Engineer DATE 6/12/2005

TYPE OR PRINT NAME Keith Lopez TELEPHONE NO. (432) 687-7120

E-MAIL ADDRESS lopk@chevrontexaco.com

**Mid Continent Business Unit
North America Upstream**

15 Smith Road
Midland, Texas 79705
Tel (432) 687 7120
LOPK@chevrontexaco.com

June 14, 2005

ChevronTexaco

State of New Mexico
Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Request to DHC the Harry Leonard E #1

Attn: Oil & Gas Regulatory Department

Chevron Corporation respectfully requests administrative approval to Downhole Commingle the Penrose Skelly, Blinebry Oil & Gas, and Drinkard in the Harry Leonard E #1, API #30-025-06620. The #1 is located 1980' FNL 1980' FEL, Unit G, Section 16, T-21S, R-37E, Lea County, NM.

The Harry Leonard E #1 was drilled as a Drinkard producer in 1947. It was then plugged back to the Blinebry in 61' and then to the Grayburg in 02'. The #1 is currently a Grayburg producer with the Blinebry & Drinkard zones shut-in. Chevron Corporation proposes to DHC the Grayburg/Blinebry/Drinkard zones to increase production.

Attached in support of this request is current production from the Grayburg and the last production tests on the Blinebry and Drinkard before they were shut off. Also, included is a proposed well schematic diagram for the Harry Leonard E #1, C107A, a C102 for each zone, a lease plat, and supporting production data. As can be seen on the table, the value of the production will not be significantly impacted by the proposed action.

Chevron Corporation is the operator of these wells with 100% working interest, and the Royalty Interest Owners are the same on each lease. The Harry Leonard E facility will test monthly for allocation of production to the well.

If you have any questions concerning this application, please contact Keith Lopez at (432)-687-7120 or by email at LOPK@CHEVRONTEXACO.COM.

Sincerely,



Keith Lopez
Petroleum Engineer

Attachments

cc: NMOCD District 1 – Hobbs, NM

Keith Lopez
Well File
Nathan Mouser
Vicki Duncan/Denise Pinkerton
State of New Mexico Commissioner of Public Lands

REQUEST FOR EXCEPTION TO RULE 303-A
FOR WELLS LOCATED IN PRE-APPROVED POOLS OR AREAS

Operator

Chevron Corporation
15 Smith Road
Midland, TX 79705

Lease Name and Well Number

Harry Leonard E #1
1980' FNL & 1980' FEL, Unit G
Section 16, T21S, R37E
Lea County, New Mexico

Division Order

Pre-approved pools or area established by Division Order No. R-11363.

Pools To Be Commingled In Harry Leonard E #1

(50350) Penrose Skelly
(06660) Blinebry Oil & Gas
(19190) Drinkard

Perforated Intervals

Penrose Skelly (3770'-3972')
Blinebry Oil & Gas (5822'-5960')
Drinkard (6438'-6594')

Location Plat

Attached

Well Test Report & Production Plots

Attached.

Product Characteristics And Value

Analysis of the produced fluids by Chevron shows that the fluids are compatible and commingling will not cause formation damage or producing problems. Also, the price received by Chevron for products from these zones is very similar, so value will not be adversely affected.

Production Allocation

<u>Pool</u>	<u>BOPD</u>	<u>BWPD</u>	<u>MCFPD</u>	<u>Estimation Method</u>
Penrose Skelly	17	29	84	5/13/05 Well Test
Blinebry Oil & Gas	4	1	62	4/18/02 Well Test
Drinkard	0	0	39	4/18/02 Well Test
Totals	21	30	185	

<u>Allocated %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Gas %</u>	<u>Remarks</u>
Penrose Skelly	81%	97%	45%	Calculated using above production volumes.
Blinebry Oil & Gas	19%	3%	34%	Calculated using above production volumes.
Drinkard	0%	0%	21%	Calculated using above production volumes.
Totals	100%	100%	100%	

Ownership

Ownership of all zones is identical so correlative rights will not be compromised.

State / Federal Land Notification

Well is on a state lease.

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District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised March 17, 1999

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06620	² Pool Code 50350	³ Pool Name Penrose Skelly; Grayburg
⁴ Property Code 2669	⁵ Property Name Harry Leonard E	⁶ Well Number 1
⁷ OGRID No. 4323	⁸ Operator Name Chevron Corporation	⁹ Elevation 3506' DF

¹⁰ Surface Location

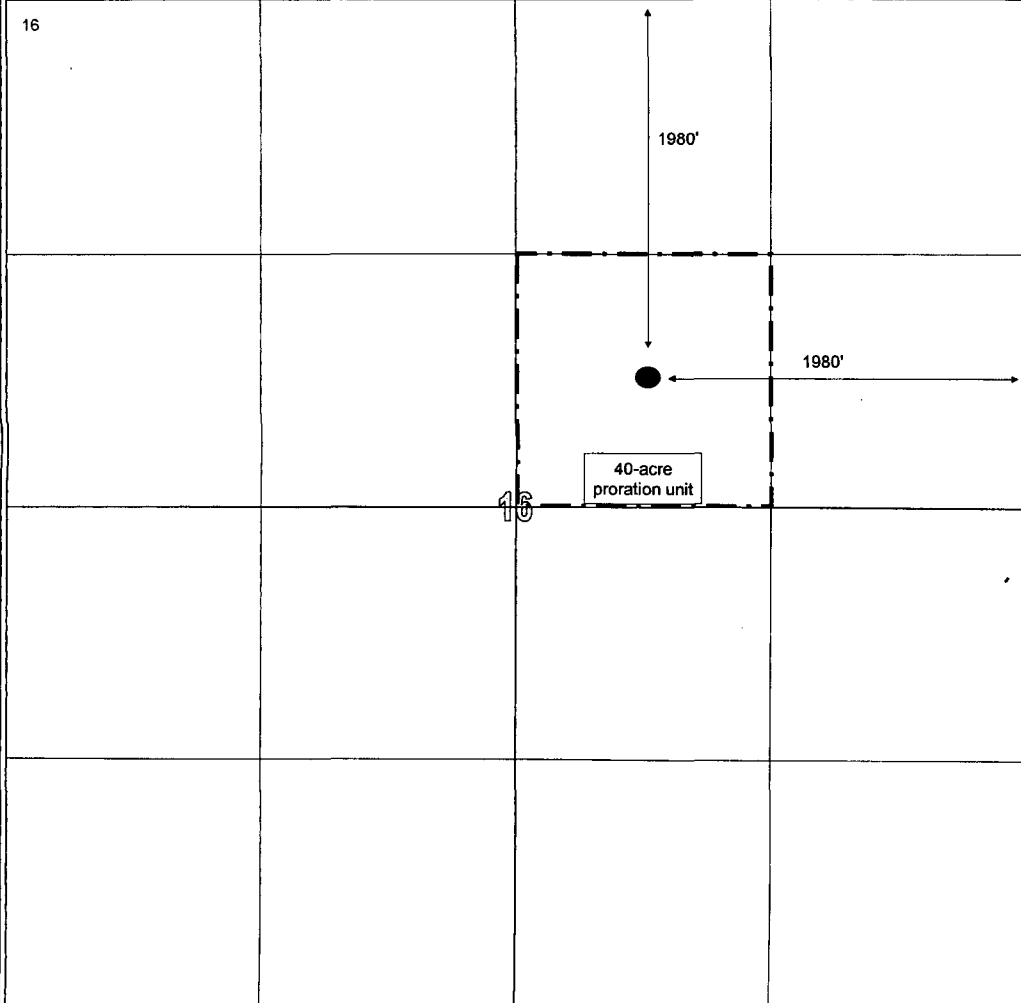
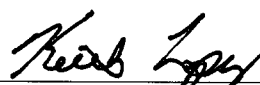
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	16	21S	37E		1980'	North	1980'	East	Lea

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 Dedicated 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

<div>16</div> 	<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p> Signature</p> <p>Keith Lopez Printed Name</p> <p>Petr. Engineer Title</p> <p>June 13, 2005</p>
	<p>SURVEYOR CERTIFICATION</p> <p><i>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.</i></p> <p>Signature and Seal of Professional Surveyor:</p>

Certificate Number

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06620	² Pool Code 06660	³ Pool Name Blinebry Oil & Gas
⁴ Property Code 2669	⁵ Property Name Harry Leonard E	⁶ Well Number 1
⁷ OGRID No. 4323	⁸ Operator Name Chevron Corporation	⁹ Elevation 3506' DF

¹⁰ Surface Location

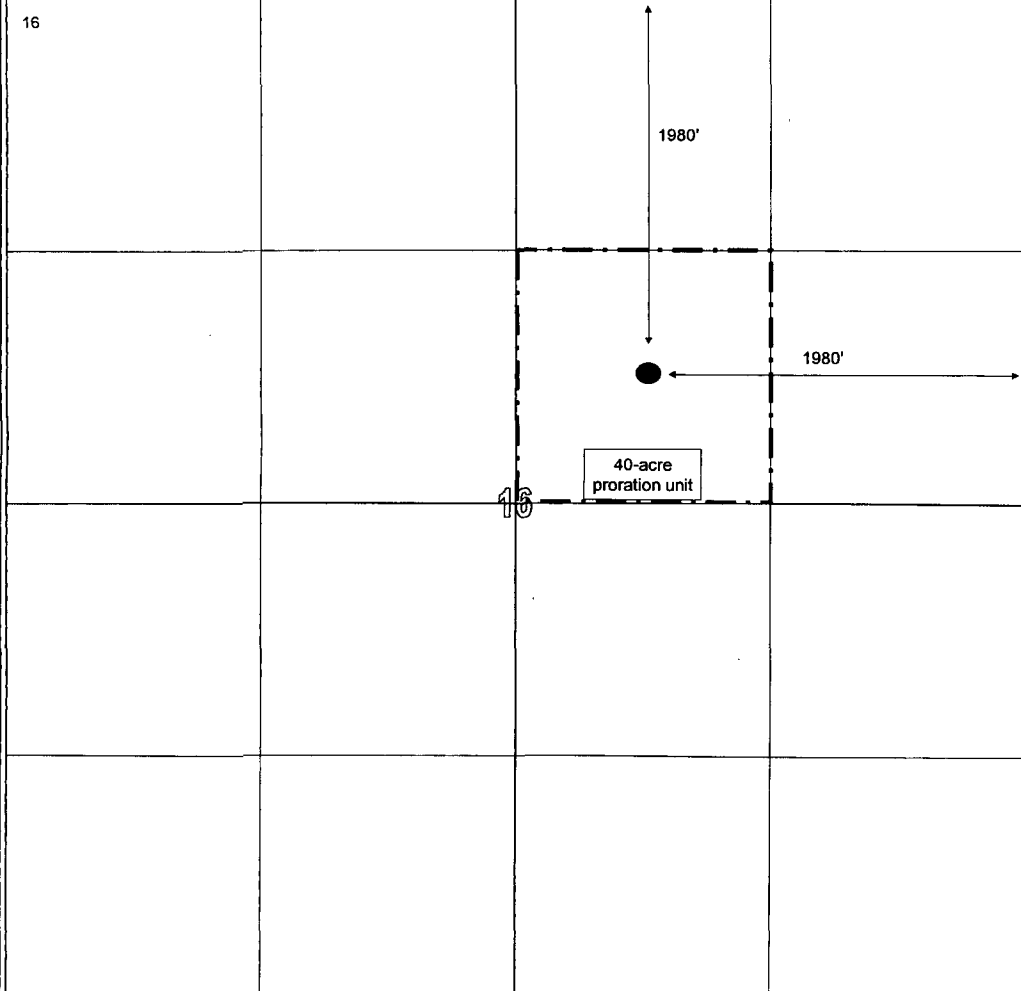
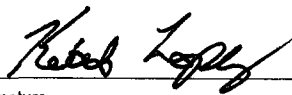
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	16	21S	37E		1980'	North	1980'	East	Lea

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-06620	² Pool Code 19190	³ Pool Name Drinkard
⁴ Property Code 2669	⁵ Property Name Harry Leonard E	⁶ Well Number 1
⁷ OGRID No. 4323	⁸ Operator Name Chevron Corporation	⁹ Elevation 3506' DF

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
G	16	21S	37E		1980'	North	1980'	East	Lea

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UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Well: **Harry Leonard E # 1**

Field: **Penrose Skelly**

Reservoir: **Grayburg**

Location:
1980' FNL & 1980' FEL
Section: 16
Township: 21S
Range: 37E
County: Lea State: NM

Elevations:
GL: 3494'
KB: 3507'
DF: 3508'

**Current
Wellbore Diagram**

Well ID Info:
Chevno: FA7724
API No: 30-025-06620
L5/L6: U492000
Spud Date: 9/14/47
Compl. Date: 11/16/47

Surf. Csg: 13 3/8", 48#, SS Csg
Set: @ 294' w/ 300 sks
Hole Size: 17 1/4"
Circ: Yes **TOC:** Surface
TOC By: Circulated

Intermed. Csg: 9 5/8", 36#, H-40
Set: @ 2950' w/ 1300 sks
Hole Size: 12 1/4"
Circ: No **TOC:** 1345'
TOC By: Temperature Survey

TAC @ 3,704'

Perfs:	Status:
3770-74'	Grayburg - Open
3781-91'	Grayburg - Open
3800-08'	Grayburg - Open
3812-18'	Grayburg - Open
3822-24'	Grayburg - Open
3833-43'	Grayburg - Open
3846-54'	Grayburg - Open
3860-66'	Grayburg - Open
3872-80'	Grayburg - Open
3898-3908'	Grayburg - Open
3912-18'	Grayburg - Open
3924-34'	Grayburg - Open
3960-72'	Grayburg - Open

3958-62'	Grayburg - Cmt. Sqz'd
3966-71'	Grayburg - Cmt. Sqz'd
3975-80'	Grayburg - Cmt. Sqz'd
3984-90'	Grayburg - Cmt. Sqz'd
3994-4004'	Grayburg - Cmt. Sqz'd

RBP @ 5800'
(Sand on top to 5,767')

Perfs:	Status
5822-24'	Blinbry - Below RBP
5835-37'	Blinbry - Below RBP
5883-85'	Blinbry - Below RBP
5920-22'	Blinbry - Below RBP
5958-60'	Blinbry - Below RBP

Baker Model D Pkr w/ DR Plug @ 6375'

6438-40'	Drinkard - Below Plug
6464-66'	Drinkard - Below Plug
6495-97'	Drinkard - Below Plug
6538-40'	Drinkard - Below Plug
6571-73'	Drinkard - Below Plug
6592-94'	Drinkard - Below Plug

Prod. Csg: 7", 23#, J-55 & N-80
Set: @ 6610' w/ 700 sks
Hole Size: 8 3/4"
Circ: No **TOC:** 1360'
TOC By: Temperature Survey

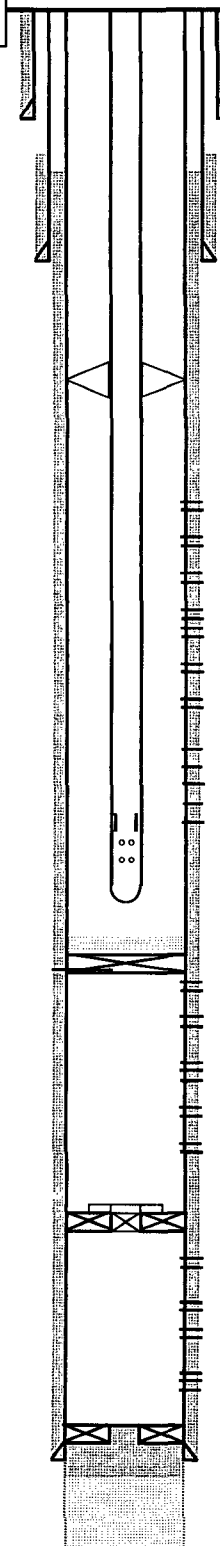
OH from 6610-70' filled with 20/40 frac sand

CICR @ 6600'

COTD: 6600'
PBTD: 6600'
TD: 6670'

Updated: 6-24-02

By: LPW



Well: **Harry Leonard E # 1**

Field: **Penrose Skelly/Blinebry O&C**

Reservoir: **Grayburg/Blinebry/Drinkard**

Location:
1980' FNL & 1980' FEL
Section: 16
Township: 21S
Range: 37E
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**Proposed
Wellbore Diagram**

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TOC By: Circulated

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3958-62'	Grayburg - Cmt. Sqz'd
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RBP @ 5800'
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5920-22'	Blinebry - Open
5958-60'	Blinebry - Open

6438-40'	Drinkard - Open
6464-66'	Drinkard - Open
6495-97'	Drinkard - Open
6538-40'	Drinkard - Open
6571-73'	Drinkard - Open
6592-94'	Drinkard - Open

Prod. Csg: 7", 23#, J-55 & N-80
Set: @ 6610' w/ 700 sks
Hole Size: 8 3/4"
Circ: No **TOC:** 1360'
TOC By: Temperature Survey

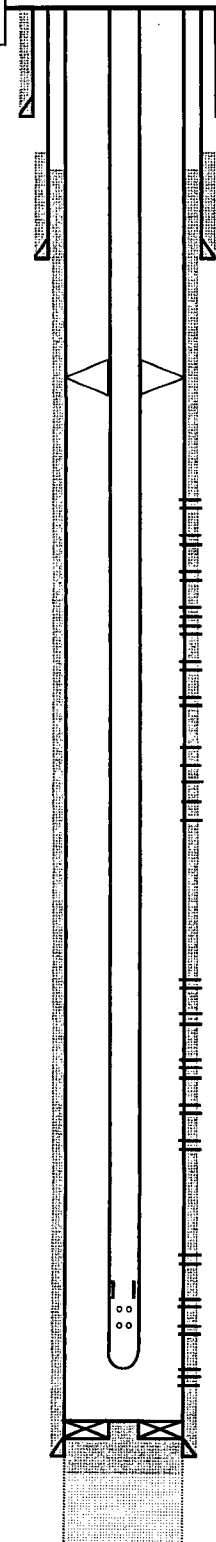
OH from 6610-70' filled with 20/40 frac sand

CICR @ 6600'

COTD: 6600'
PBSD: 6600'
TD: 6670'

Updated: 6-14-05 LOPK

By: LPW



WELL TEST REPORT

Lease: **LEONARD H /NCT-E/**

Field: **DRINKARD**

Reservoir: **DRINKARD**

Well: **1**

Field Code: **U41**

Resv Code: **00000058**

Unique Code: **UCU412800**

Battery: **LEONARD**

Wellbore: **044707**

API No: **30025066**

Test Date	BOPD	BWPD	MCFPD	Tbg PSI	GOR	% Oil	Comp No.	Status	Remarks	Fluid Level	Fld Lvl Date
5/13/05	17	29	84		4941	37.0	03	PR	Gmyberg	3828	4/20/05
4/23/05	18	27	88		4889	40.0	03	PR		3828	4/20/05
3/28/05	9	35	87		9667	20.5	03	PR		4089	3/27/05
2/9/05	14	30	76		5429	31.8	03	PR		3884	12/11/04
1/12/05	12	22	66		5500	35.3	03	PR		3884	12/11/04
12/20/04	12	20	65		5417	37.5	03	PR		3884	12/11/04
11/14/04	13	26	75		5769	33.3	03	PR		4089	11/14/04
11/14/04	13	26	75		5769	33.3	03	PR		4089	11/14/04
10/14/04	12	33	95		7917	26.7	03	PR		4089	10/14/04
9/1/04	12	34	95		7917	26.1	03	PR		4089	9/21/04
8/9/04	13	38	100		7692	25.5	03	PR		3963	6/29/04
8/8/04	11	34	84		7636	24.4	03	PR		3963	6/29/04
8/7/04	14	24	94		6714	36.8	03	PR		3963	6/29/04
7/11/04	13	39	113		8692	25.0	03	PR		3963	6/29/04
6/29/04	12	36	89		7417	25.0	03	PR		3963	6/29/04
6/14/04	12	37	73		6083	24.5	03	PR		4090	3/17/04
6/13/04	18	48	97		5389	27.3	03	PR		4090	3/17/04
5/31/04	15	45	80		5333	25.0	03	PR		4090	3/17/04
5/30/04	15	42	75		5000	26.3	03	PR		4090	3/17/04
4/27/04	15	36	76		5067	29.4	03	PR		4090	3/17/04
4/26/04	19	24	71		3737	44.2	03	PR		4090	3/17/04
4/25/04	19	31	72		3789	38.0	03	PR		4090	3/17/04
3/24/04	25	28	73		2920	47.2	03	PR		4090	3/17/04
3/23/04	28	26	76		2714	51.9	03	PR		4090	3/17/04
3/22/04	30	23	73		2433	56.6	03	PR		4090	3/17/04
2/20/04	44	24	75		1705	64.7	03	PR		4090	2/6/04
2/6/04	44	30	71		1614	59.5	03	PR		4090	2/6/04
1/1/04	45	55	80		1778	45.0	03	PR		3885	9/3/03
10/10/03	23	57	101		4391	28.8	03	PR		3885	9/3/03
8/7/03	27	64	151		5593	29.7	03	PR		3782	8/26/02
7/5/03	35	120	255		7286	22.6	03	PR		3782	8/26/02
6/13/03	38	132	266		7000	22.4	03	PR		3782	8/26/02
6/12/03	38	132	266		7000	22.4	03	PR	REG WELL TEST	3782	8/26/02
5/25/03	57	52	150		2632	52.3	03	PR		3782	8/26/02
3/9/03	66	38	154		2333	63.5	03	PR	REG WELL TEST	3782	8/26/02
3/8/03	69	42	148		2145	62.2	03	PR	REG WELL TEST	3782	8/26/02
10/15/02	46	89	142		3095	34.1	03	PR		3782	8/26/02
10/15/02	46	89	142		3095	34.1	03	PR		3782	8/26/02
10/14/02	50	80	133		2652	38.5	03	PR		3782	8/26/02
9/21/02	47	90	143		3050	34.3	03	PR	REG WELL TEST	3782	8/26/02
9/15/02	54	103	159		2943	34.4	03	PR		3782	8/26/02
9/15/02	54	103	159		2943	34.4	03	PR		3782	8/26/02
9/15/02	54	103	159		2943	34.4	03	PR		3782	8/26/02
9/11/02	54	100	157		2882	35.2	03	PR		3782	8/26/02
9/11/02	54	100	157		2882	35.2	03	PR		3782	8/26/02
9/11/02	54	100	157		2882	35.2	03	PR		3782	8/26/02
9/11/02	54	100	157		2882	35.2	03	PR		3782	8/26/02
9/11/02	54	100	157		2882	35.2	03	PR		3782	8/26/02
9/9/02	60	110	174		2893	35.3	03	PR	REG WELL TEST	3782	8/26/02
9/9/02	60	110	174		2893	35.3	03	PR	REG WELL TEST	3782	8/26/02
9/9/02	60	110	174		2893	35.3	03	PR	REG WELL TEST	3782	8/26/02
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[illegible]

Rate/Time Graph

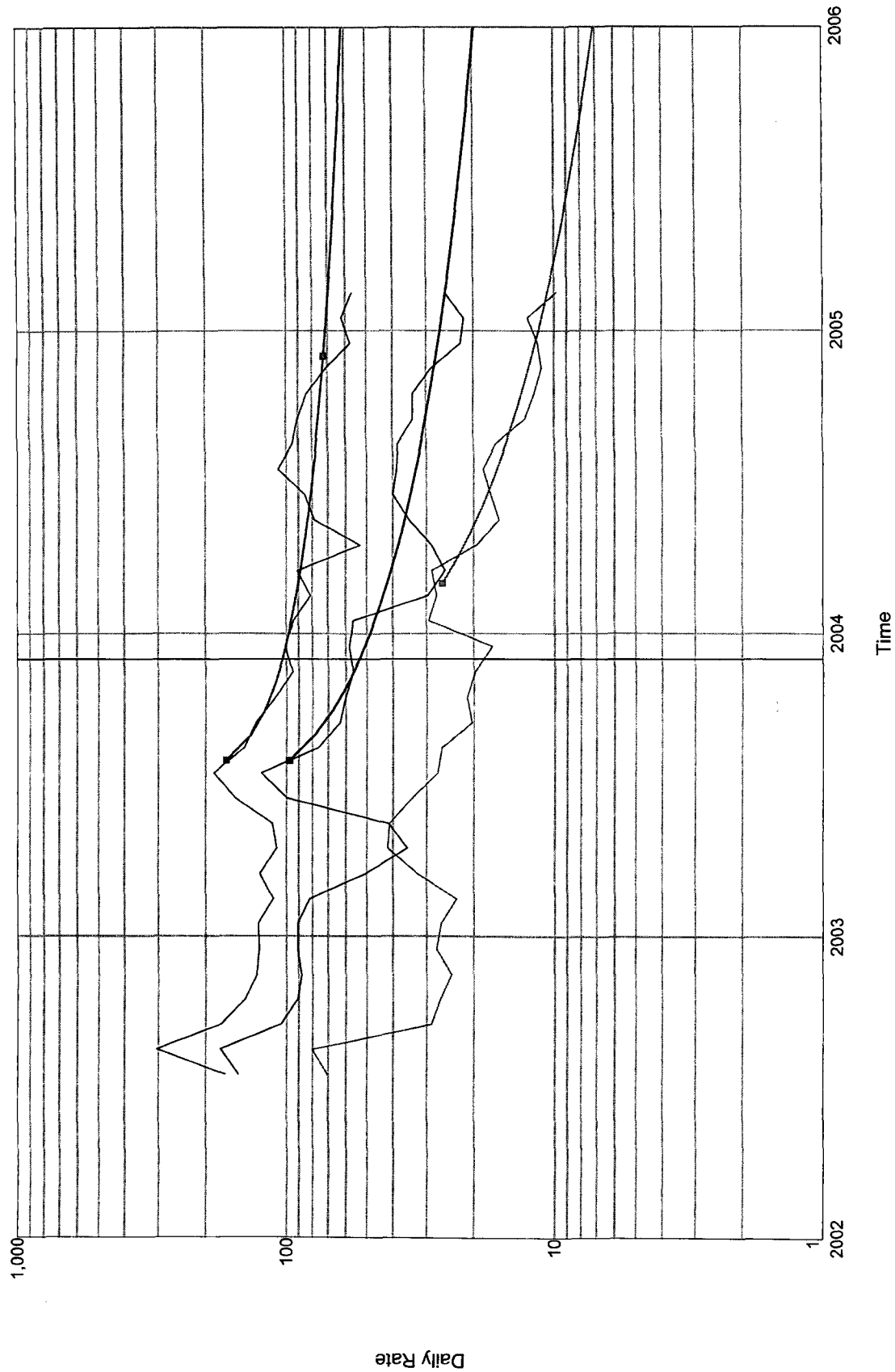
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Date: 6/13/2005
Time: 3:16 PM

Lease Name: HARRY LEONARD NCT E (1)
County, ST: LEA, NM
Location: 16G 21S 37E C SW NE

Operator: CHEVRON U S A INCORPORATED
Field Name: PENROSE-SKELLY

PENROSE-SKELLY HARRY LEONARD NCT E (1) HARRY LEONARD NCT E 111,205 mcf 25,269 bbl



Rate/Time Graph

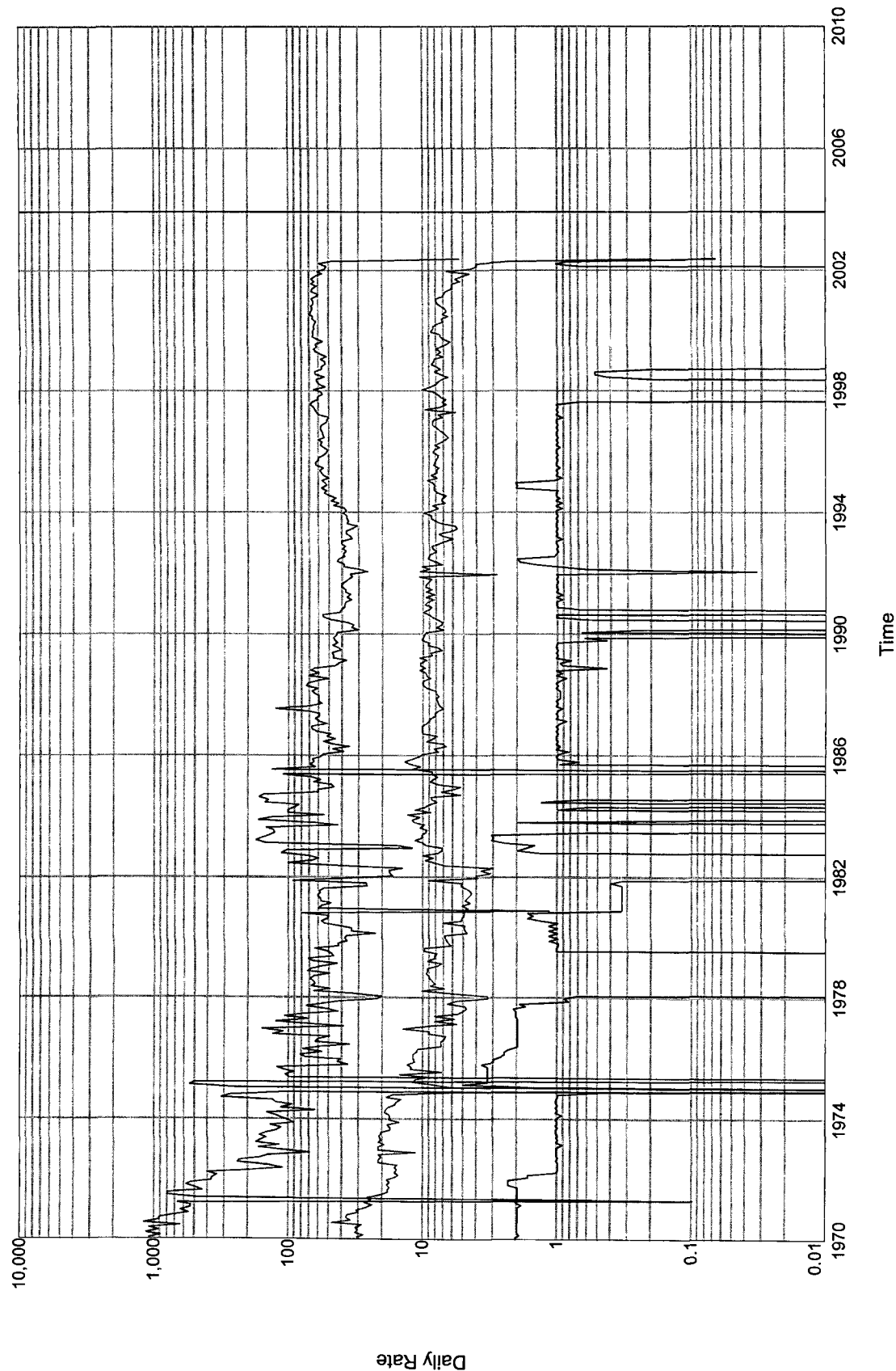
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Date: 6/13/2005
Time: 3:15 PM

Lease Name: HARRY LEONARD NCT E (1)
County, ST: LEA, NM
Location: 16G 21S 37E C SW NE

Operator: CHEVRON U S A INCORPORATED
Field Name: BLINEBRY

BLINEBRY HARRY LEONARD NCT E (1) HARRY LEONARD NCT E 3,248,881 mcf 237,586 bbl



Rate/Time Graph

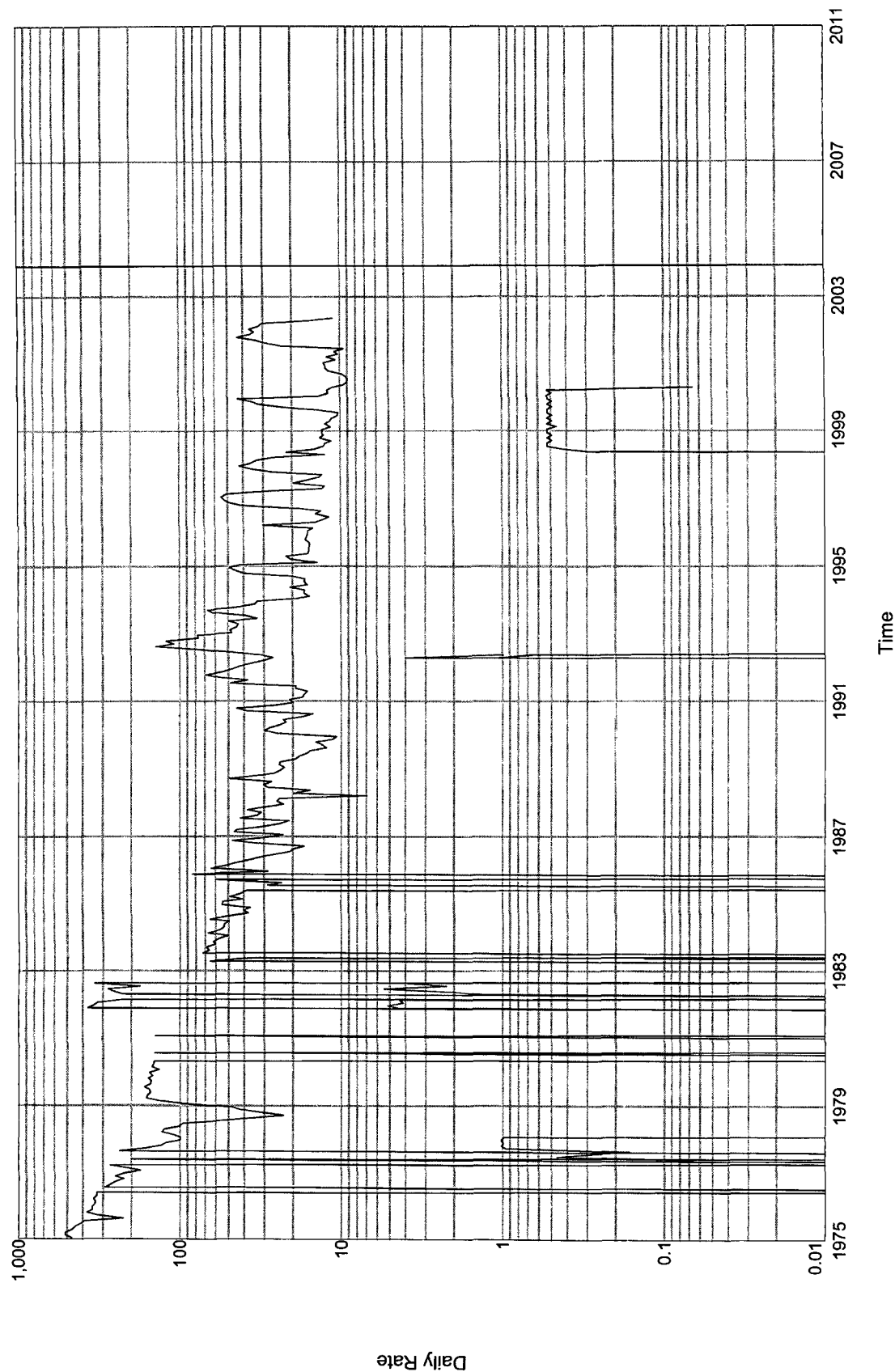
Lease Name: HARRY LEONARD NCT E (1)
County, ST: LEA, NM
Location: 16G 21S 37E C SW NE

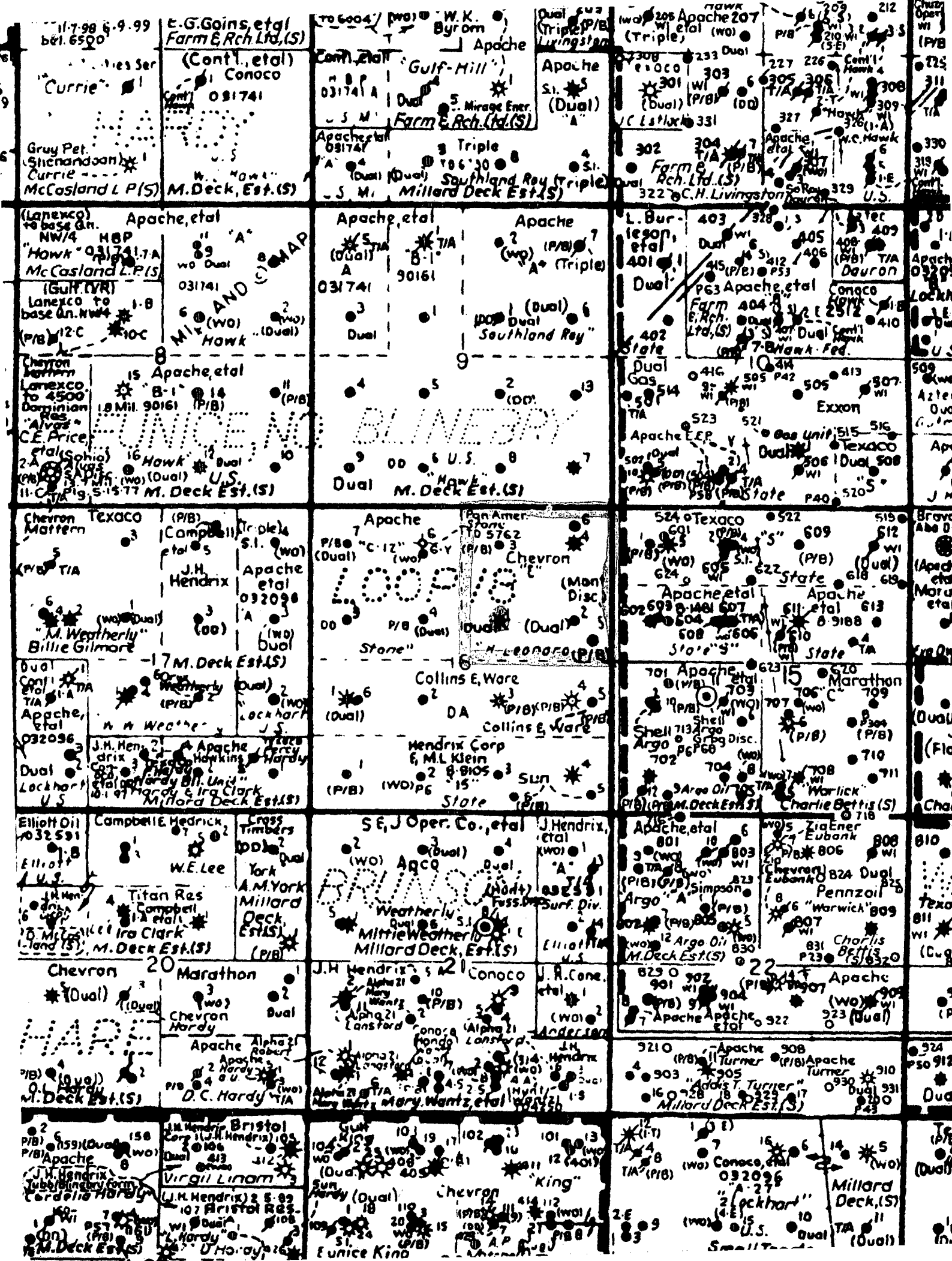
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Operator: CHEVRON U S A INCORPORATED
Field Name: DRINKARD

Date: 6/13/2005
Time: 3:15 PM

DRINKARD HARRY LEONARD NCT E (1) HARRY LEONARD NCT E 693,741 mcf 1,343 bbl





P5em0517236375

DATE IN 6.20.05	SUSPENSE	ENGINEER Jones	LOGGED 6.21.05	TYPE DHC 3482
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

RECEIVED
JUN 20 2005
OIL CONSERVATION
DIVISION

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]**
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling**
 NSL NSP DD SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement**
☒ DHC CTB PLC PC OLS OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery**
 WFX PMX SWD IPI EOR PPR

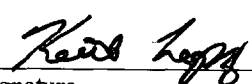
[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] Working, Royalty or Overriding Royalty Interest Owners**
[B] Offset Operators, Leaseholders or Surface Owner
[C] Application is One Which Requires Published Legal Notice
[D] ☒ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
[F] Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Keith Lopez		Petro. Engineer	6/12/2005
Print or Type Name	Signature	Title	Date