

DATE IN 12/12/03	SUSPENSE	ENGINEER WVS	LOGGED LIR	TYPE PLR0335147297
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

DEC 12 2003

- Engineering Bureau -

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

Orig-

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.

CAROLYN J. HAYNIE

PE TECH. ASSISTANT

Print or Type Name

Signature

Title

Date

12-1-03

District I
1625 N. French 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 U.S.A. INC. PRODUCTION INC.

15 SMITH ROAD

MIDLAND, TX 79705

Operator
C.L. HARDY

4

Address
M-20-T21S-R37E

LEA CO, NM

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No. 4323 Property Code 2634 API No. 30-025-06705 Lease Type: ☐ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skelly Grayburg <input checked="" type="checkbox"/>	NA	Blinebry Oil & Gas <input checked="" type="checkbox"/>
Pool Code	50350	NA	6660
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3667' - 3867'	NA	5570' - 5670'
Method of Production (Flowing or Artificial Lift)	Artificial Lift	NA	Zone abandoned, will be 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)	Est. 900 PSI	NA	Est. 250 PSI
Oil Gravity or Gas BTU (Degree API or Gas BTU)	NA	NA	NA
Producing, Shut-In or New Zone	Producing	NA	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: 11-29-03 Rates: 6 Oil, 217 Wtr, 212 MCF	Date: Rates:	Date: 9-20-03 Rates: 7 Oil, 5 Wtr, 113 MCF
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil WTR Gas 46 % 98 % 65 %	Oil Gas % %	Oil WTR Gas 54 % 2% 35 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones?
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

Yes ☒ No ☐
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 Carolyn J. Haynie TITLE NM Technical Assistant DATE 12-8-03

TYPE OR PRINT NAME Carolyn J. Haynie TELEPHONE NO. (432) 687-7384

E-MAIL ADDRESS CHaynie@ChevronTexco.com

Chevron USA Production Company Inc.
Carolyn J. Haynie
Waterflood Technical Assistant
15 Smith Road
Midland, TX 79705
Tel 915-687-7384
Fax 915-687-7557

ChevronTexaco

December 8, 2003

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 C.L. Hardy # 4

Attn: Oil & Gas Regulatory Department

ChevronTexaco, Exploration & Production, Inc., formerly Chevron U.S.A. Production Co., Inc., respectfully requests administrative approval to Downhole Commingling the Blinbry Oil & Gas and the Penrose Skelly Grayburg in the C.L. Hardy well # 4, API # 30-025-06705. The # 4 is located in Penrose Skelly Grayburg Pool, 660' FSL & 660' FWL, Unit M, Section 20, T-21S, R-37E, NMPM, Lea County, NM,.

The C.L. Hardy # 4 was producing in the Blinbry formation, making 7 BOPD, 5 BWPD, & 113 MCFPD, prior to plugging back to the Penrose Skelly Grayburg. ChevronTexaco proposes to downhole commingle and produce both zones in the C. L. Hardy # 4 by pulling the retrievable bridge plug, installing additional tubing and then returning the well to production. The C.L. Hardy wells production is gathered in the C.L. Hardy Tank Battery, (COMMINGLING ORDER PC-357-A), located within SW/4 of Section 20, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

Attached in support of this request is a table showing oil production volumes for each of the pools proposed for commingling. Also, included is a proposed well schematic diagram for the C.L. Hardy # 4, well test, C107A, a C102 for each zone, and a lease plat. As can be seen on the table, the value of the production will not be significantly impacted by the proposed action.

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

For your convenience, I have enclosed a stamped self-addressed envelope, for your returned decision. If you have any questions concerning this application, please contact me, at (915) 687-7384.

Sincerely,



Carolyn Haynie
New Mexico Technical Assistant

Cc: NMOCD – Hobbs District 2
Lease File
Mike Howell
Nathan Mouser
Vicki Duncan/Denise Pinkerton

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

Operator

Chevron U.S.A., Inc.
15 Smith Road
Midland, TX 79705

Lease Name and Well Number

C.L. Hardy # 4
660' FSL & 660' FWL
Section 20, 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 C.L. Hardy # 4

(50350) Penrose Skelly Grayburg
(6660) Blinebry oil & Gas

Perforated Intervals

Penrose Skelly Grayburg (3667'-3867')
Blinebry Oil & Gas (5570'-5670')

Location Plat

Attached

Well Test Report & Production Plots

Attached.

Product Characteristics And Value

Previous commingling of these zones by Chevron and other operators in the area have shown that the produced 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 Grayburg	6	217	212	Well Test Report 11-29-03
Blinebry Oil & Gas	7	5	113	Well Test Report 9-20-03
Totals	13	222	325	

<u>Allocated %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Gas %</u>	<u>Remarks</u>
Penrose Skelly Grayburg	46.15	97.75	65.23	Calculated using above production volumes.
Blinebry Oil & Gas	53.85	2.25	34.77	Calculated using above production volumes.
Totals	100.00	100.00	100.00	

Ownership

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

State / Federal Land Notification

Well is on a fee lease.

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

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 30-025-06705	² Pool Code 50350	³ Pool Name Penrose Skelly Grayburg
⁴ Property Code 2634	⁵ Property Name C.L. HARDY	⁶ Well Number 4
⁷ OGRID No. 4323	⁸ Operator Name Chevron U.S.A. Inc.	⁹ Elevation 3494'


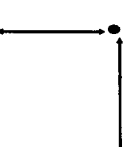
¹⁰ Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	20	21S	37E		660'	South	660'	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 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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

20				17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature C. J. Haynie Printed Name New Mexico Technical Assistant Title December 4, 2003
				18 SURVEYOR CERTIFICATION <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> Signature and Seal of Professional Surveyor: Certificate Number
C.L. HARDY # 4 660' FWL  660' FSL	40-acre proration unit			

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1625 N. French Dr., Hobbs, NM 88240

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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 30-025-06705	² Pool Code 6660	³ Pool Name Blinbry Oil & Gas (Oil)
⁴ Property Code 2634	⁵ Property Name C.L. HARDY	⁶ Well Number 4
⁷ OGRID No. 4323	⁸ Operator Name Chevron U.S.A. Inc.	⁹ Elevation 3494'

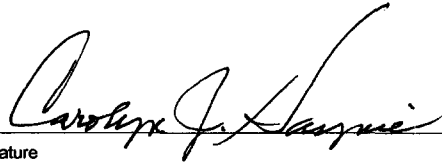
¹⁰ Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	20	21S	37E		660'	South	660'	West	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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20				17
				OPERATOR CERTIFICATION
				<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>
				
				Signature
				C. J. Haynie
				Printed Name
				New Mexico Technical Assistant
				Title
				December 4, 2003
				18
				SURVEYOR CERTIFICATION
				<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>
				Signature and Seal of Professional Surveyor:
				Certificate Number

C.L. HARDY # 4

660' FWL

660' FSL

40-acre proration unit

WELL DATA SHEET

FIELD: Penrose Skelly

FORMATION: Grayburg

LOC: 660' FSL & 660' FWL

TOWNSHIP: 21S

RANGE: 37E

SEC: 20

COUNTY: Lea

STATE: NM

LOT: M

WELL NAME: C. L. Hardy #4

GL: 3494'

KB:

DF:

PROPOSED STATUS:

API NO: 30-025-06705

REFNO: FA7806

Spud Date: 6/20/48

Date Completed: 8/4/48

SAP: UCU493600

Surface Casing

13-3/8", 48#, H-40 casing

17-1/2" hole

Set @ 290' w/300 sx cmt

Circ cmt to surface

Intermediate Casing

9-5/8", 36#, H-40 casing

12-1/4" hole

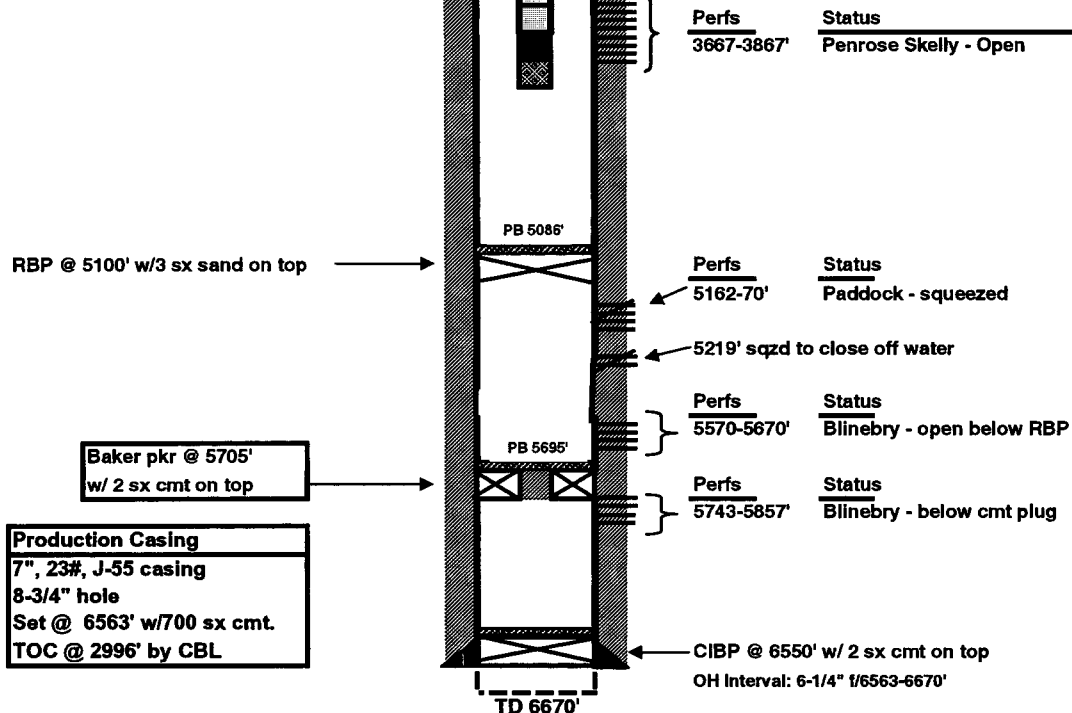
Set @ 2913' w/1300 sx cmt

TOC @ 1315' by TS

Tubing Detail:

#Jts.	Size:	Footage
	KB Correction	10.00
108	2 7/8" J-55 Cl. 'A'	3590.00
	TAC	2.36
7	2 7/8" J-55 Cl. 'A'	2015.00
1	2 7/8" J-55 IPC	31.79
	2 7/8" API S.N.	1.10
116	Pump Intake >>>	5650.25
	2 7/8" Perf. Sub	4.08
	2 7/8" BPMA Jt.	32.05
		5686.38

Initially completed as Drinkard OH completion
Later dually produced in the
Penrose Skelly and the Paddock



Production Casing

7", 23#, J-55 casing

8-3/4" hole

Set @ 6563' w/700 sx cmt.

TOC @ 2996' by CBL

WELL DATA SHEET

FIELD: Penrose Skelly & Blinebry O&G

LEASE NAME: C. L. Hardy #4

FORMATION: Grayburg/Blinebry-DHC
LOC: 660' FSL & 660' FWL
TOWNSHIP: 21S
RANGE: 37E

SEC: 20
COUNTY: Lea
STATE: NM
LOT: M

GL: 3494'
KB:
DF:

PROPOSED STATUS: DHC
API NO: 30-025-06705
REFNO: FA7806
Spud Date: 6/20/48
Date Completed: 8/4/48
SAP: UCU493600

Surface Casing

13-3/8", 48#, H-40 casing
 17-1/2" hole
 Set @ 290' w/300 sx cmt
 Circ cmt to surface

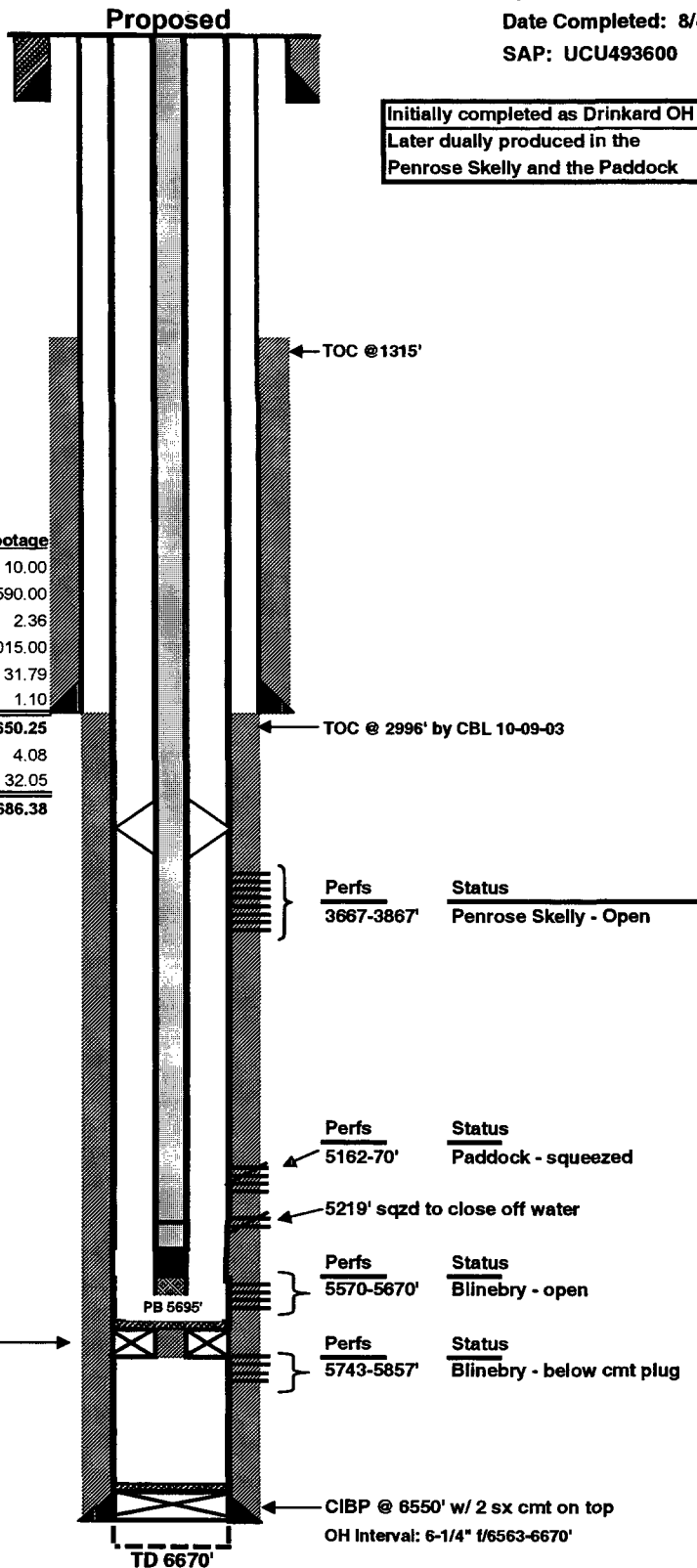
Intermediate Casing

9-5/8", 36#, H-40 casing
 12-1/4" hole
 Set @ 2913' w/1300 sx cmt
 TOC @ 1315' by TS

tubing Detail:

#Jts.	Size:	Footage
	KB Correction	10.00
116	2 7/8" J-55 Cl. 'A'	3590.00
	TAC	2.36
65	2 7/8" J-55 Cl. 'A'	2015.00
1	2 7/8" J-55 IPC	31.79
	2 7/8" API S.N.	1.10
182	Pump Intake >>>	5650.25
	2 7/8" Perf. Sub	4.08
	2 7/8" BPMA Jt.	32.05
		5686.38

Initially completed as Drinkard OH completion
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Production Casing

7", 23#, J-55 casing
 8-3/4" hole
 Set @ 6563' w/700 sx cmt.
 TOC @ 2996' by CBL

WELL TEST REPORT

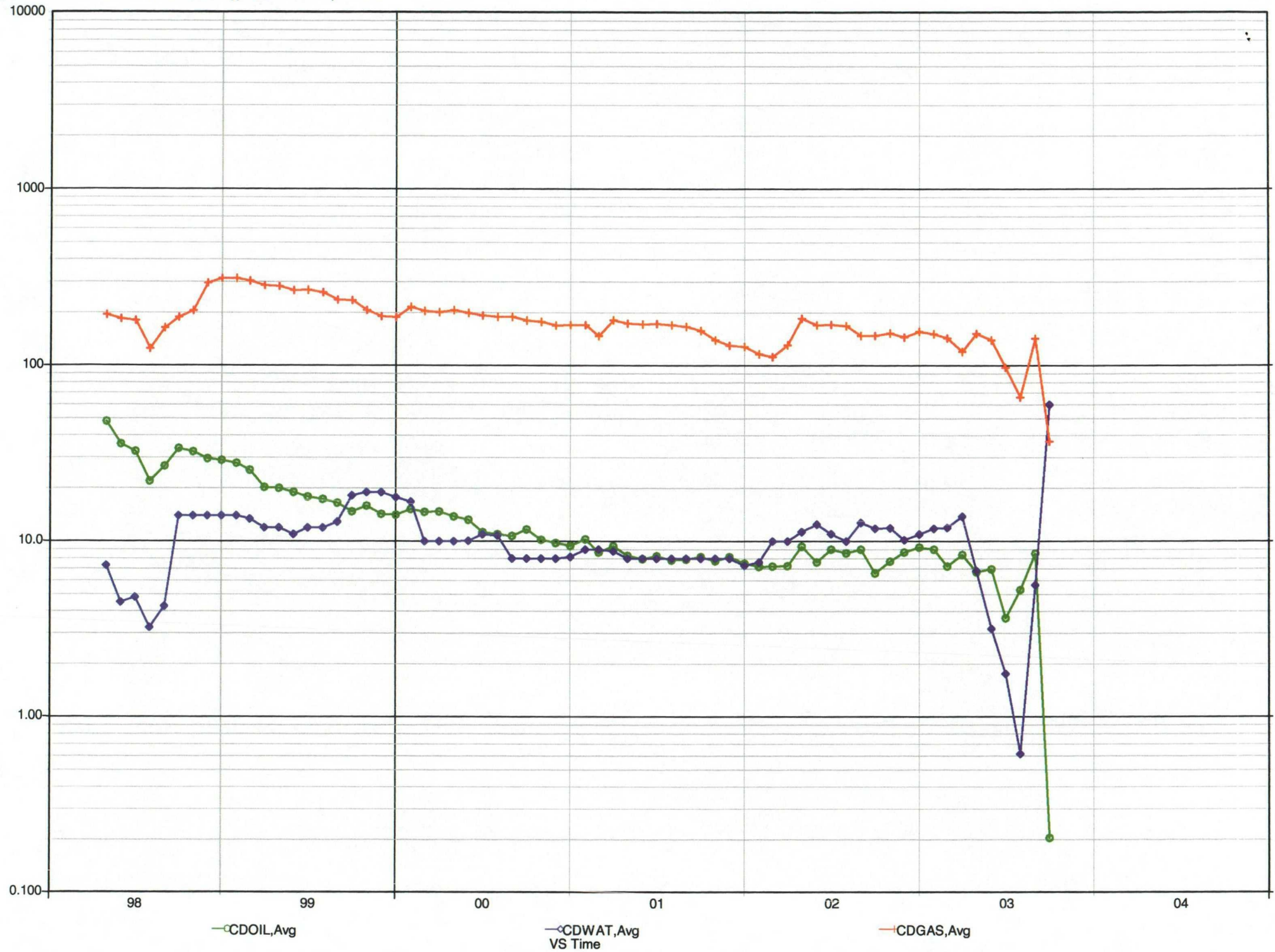
Lease: HARDY C L	Field: FLD-BLINEBRY OIL & GAS	Reservoir: BLINEBRY
Well: 4B	Field Code: U46	Resv Code: 0000004532
	Unique Code: PU461900	Battery: HARDY C L
	Wellbore: 047388	API No: 300250670500

Test Date	BOPD	BWPD	MCFPD	Tbg PSI	GOR	% Oil	Comp No.	Status	Remarks	Fluid Level	Fld Lvl Date	BTFPD
	0	0	0	150			02	PR		5593	9/17/03	
	0	0	0	150			02	PR		5593	9/17/03	
11/29/03	6	217	212	150	35333	2.7	02	PR	Grayburg	3594	11/23/03	223
11/28/03	7	239	232	150	33143	2.8	02	PR		3594	11/23/03	246
11/27/03	6	189	186	150	31000	3.1	02	PR		3594	11/23/03	195
11/25/03	6	221	211	150	35167	2.6	02	PR		3594	11/23/03	227
11/24/03	7	232	223	150	31857	2.9	02	PR		3594	11/23/03	239
11/23/03	6	210	214	150	35667	2.8	02	PR	9CF LIQUID 112PSI INTAKE GAS FLOW 398	3594	11/23/03	216
11/20/03	4	169	191	150	47750	2.3	02	PR		3113	10/29/03	173
11/15/03	6	179	204	150	34000	3.2	02	PR		3113	10/29/03	185
11/13/03	4	233	255	150	63750	1.7	02	PR		3113	10/29/03	237
11/11/03	16	176	214	150	13375	8.3	02	PR		3113	10/29/03	192
11/6/03	4	198	251	150	62750	2.0	02	PR		3113	10/29/03	202
11/3/03	6	226	221		36763	2.6	03	PR				232
11/3/03	6	226	225	150	37500	2.6	02	PR		3113	10/29/03	232
10/31/03	2	305	211		105390	0.7	03	PR				307
10/31/03	2	305	215	150	107500	0.7	02	PR		3113	10/29/03	307
10/30/03	1	297	192		192150	0.3	03	PR				298
10/30/03	1	297	196	150	196000	0.3	02	PR		3113	10/29/03	298
10/28/03	1	298	170		169600	0.3	03	PR				299
10/28/03	1	298	173	150	173000	0.3	02	PR		846	10/27/03	299
10/27/03	2	325	163		81370	0.6	03	PR				327
10/27/03	2	325	166	150	83000	0.6	02	PR	GRAYBURG	846	10/27/03	327
10/26/03	0	337	137		#DIV/0!	0.0	03	PR				337
10/26/03	0	337	140	150	#DIV/0!	0.0	02	PR	BLINEBRY	5593	9/17/03	337
9/20/03	7	5	113	150	16143	58.3	02	PR		5593	9/17/03	12
9/3/03	9	6	139	150	15444	60.0	02	PR		5410	3/14/03	15
9/1/03	8	6	101	150	12625	57.1	02	PR		5410	3/14/03	14
8/15/03	10	0	101	150	10100	100.0	02	PR		5410	3/14/03	10
7/8/03	7	4	171	150	25147	65.4	02	PR	REG MONTH WELL TEST	5410	3/14/03	10
6/15/03	7	3	168	150	24000	70.0	02	PR	REG MONTH WELL TEST	5410	3/14/03	10
5/17/03	8	3	189	150	23625	70.2	02	PR	REG MONTH WELL TEST	5410	3/14/03	11
5/13/03	7	5	196	150	28000	58.3	02	PR		5410	3/14/03	12
5/11/03	4	0	173	150	43250	100.0	02	PR		5410	3/14/03	4
4/3/03	7	14	122	150	18769	31.7	02	PR	REG MONTH WELL TEST	5410	3/14/03	21
2/7/03	8	12	139	150	16548	41.2	02	PR	REG MONTH WELL TEST	5376	7/10/02	20
1/10/03	7	11	153	150	22836	37.0	02	PR	REG MONTH WELL TEST	5376	7/10/02	18
12/4/02	8	10	144	150	17349	45.4	02	PR	REG MONTH WELL TEST	5376	7/10/02	18
12/4/02	8	10	144	150	17349	45.4	02	PR	REG MONTH WELL TEST	5376	7/10/02	18
11/11/02	8	12	151	150	18875	40.0	02	PR	REG MONTH WELL TEST	5376	7/10/02	20
11/11/02	8	12	151	150	18875	40.0	02	PR	REG MONTH WELL TEST	5376	7/10/02	20
11/11/02	8	12	151	150	18875	40.0	02	PR	REG MONTH WELL TEST	5376	7/10/02	20
10/2/02	5	12	129	150	23835	31.4	02	PR	REG MONTH WELL TEST	5376	7/10/02	17
9/4/02	7	13	142	150	20935	34.2	02	PR	REG MONTH WELL TEST	5424	4/26/02	20
7/12/02	8	10	137	150	17156	44.4	02	PR	REG WELL TEST	5424	4/26/02	18
5/18/02	7	13	165	150	23529	35.0	02	PR	REG MONTH WELL TEST	5424	4/26/02	20
4/4/02	8	10	158	150	19730	44.4	02	PR	REG MONTH WELL TEST	5460	1/10/02	18
2/23/02	7	10	151	150	21569	41.2	02	PR	REG MONTH WELL TEST	5460	1/10/02	17
1/11/02	8	7	166	150	20710	53.3	02	PR	REG MONTH WELL TEST	5460	1/10/02	15
10/25/01	9	8	172	150	19062	52.9	02	PR		5500	6/28/00	17
7/26/01	9	8	177	150	19717	52.9	02	PR		5500	6/28/00	17

ChevronTexaco Corp

Eunice Primary Area - C. L. Hardy # 4 - Blinebry Formation

Name: HARDYCL4B ID: FA7806:0:02 Type: ZR Format: producer



ChevronTexaco Corp
Eunice Primary Area - C. L. Hardy # 4 - Grayburg Formation

Name: HARDYCL4G ID: FA7806:0:03 Type: PR Format: producer

