

## District I

1625 N French Dr., 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

Form C-101

June 16, 2001

Oil Conservation Division

Submit to appropriate District Office

AUG 14 2008

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORTAPPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,  
PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address CHEVRON U.S.A INC 15 SMITH ROAD MIDLAND, TEXAS 79705		<sup>2</sup> OGRID Number 4323
		<sup>3</sup> API Number 30 - 025-33998
<sup>3</sup> Property Code 18927	<sup>5</sup> Property Name MONUMENT '12' STATE	
<sup>9</sup> Proposed Pool 1 MONUMENT NORTH; DELAWARE (WILDCAT)		<sup>6</sup> Well No 10
<sup>9</sup> Proposed Pool 1		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no M	Section 12	Township 19-S	Range 36-E	Lot Idn	Feet from the 677	North/South line SOUTH	Feet from the 791	East/West line WEST	County LEA
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<sup>8</sup> Proposed 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
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## Additional Well Information

Work Type Code P	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3735' GL
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 7470'	<sup>18</sup> Formation DELAWARE	<sup>19</sup> Contractor	<sup>20</sup> Spud Date

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
NO CHANGE					

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any Use additional sheets if necessary

CHEVRON U S A INC. INTENDS TO RECOMPLETE THE SUBJECT WELL TO THE DELAWARE RESERVOIR  
THE DELAWARE FORMATION HAS NOT PRODUCED WITHIN 1 MILE FROM THE SUBJECT WELL THE DELAWARE WILL BE A WILDCAT & WE  
WOULD LIKE TO NAME IT THE MONUMENT NORTH; DELAWARE.

THE INTENDED PROCEDURE AND CURRENT AND PROPOSED WELLBORE DIAGRAM ARE ATTACHED

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway**

**Plugback**

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief		OIL CONSERVATION DIVISION	
Signature <i>Denise Pinkerton</i>		Approved by <i>[Signature]</i>	
Printed name. DENISE PINKERTON		Title PETROLEUM ENGINEER	
Title REGULATORY SPECIALIST		Approval Date AUG 21 2008	Expiration Date:
E-mail Address leakejd@chevron.com			
Date 08-04-2008	Phone 432-687-7375	Conditions of Approval Attached <input type="checkbox"/>	

Monument 12 State # 10  
Monument North  
T19S, R36E, Section 12  
Job: Repair Casing Leak and Test Delaware

7/9/2008

Procedure:

1. *This procedure is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well files and computer databases as of 7/9/2008. Verify what is in the hole with the well file in the Eunice Field office. Discuss w/ WEO Engineer, Workover Rep, OS, ALS, and FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.*
2. Displace flowline with fresh water. Have field specialist close valve at header. Pressure line according to the type of line. Buried fiberglass lines will be tested with 300 psi. All polypipe (SDR7 and SDR11) will be tested w/100 psi. All steel lines will be tested w/500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If test is good, bleed off pressure and **open valve** at header. Document this process in the morning report.
3. MI & RU workover unit. Bleed pressure from well, if any. Pump down csg with 8.6 PPG cut brine water, if necessary to kill well. Remove WH. Install BOP's and test as required. POH and stand back 2-7/8" production tbg. **Scan tubing using Tuboscope scanner, LD all jts. but yellow band.**
4. PU and GIH with 4-3/4" bit on 2-7/8" 6.50# L-80 workstring to 6826'. If fill is tagged above 6826' notify engineering before proceeding. POH with WS and bit. LD bit.
5. RU WL. PU and GIH w/ 5-1/2" CIBP to 6685'. Set CIBP at 6685' and POH. GIH and conduct GR/CCL/CBL from 6000' to 4000'. Evaluate cement over completion interval from 4400' to 5400'. POH. GIH and dump bail 35' of cement on top of CIBP at 6685'. POH. RD and release WL.  
**Note: Use Wedge Dia-Log CBL dated 7/21/1997 for depth correction.**
6. PU and GIH w/ 5-1/2" packer on 2-7/8" workstring to 6600'. Pressure test CIBP to 500 psi. Pressure annulus to 500 psi. Begin to isolate suspected casing leak. Test annulus to 500 psi during each stage. (top of cement at 5878' by CBL) Notify engineering when casing leak is identified.
7. RU WL. Perforate 8 squeeze holes w/ 4 JSPF per results of CBL, completion interval, and casing leak depth. RD and Release WL.
8. RIH w/ 5-1/2" packer Set packer 50' above squeeze holes. Fill annulus. Establish injection rate into squeeze holes and attempt to circulate to surface through 5-1/2" x 8-5/8" annulus. **Note: Notify engineering of injection rate and pressure for squeeze design.**
9. Release packer and POH. RIH w/ 5-1/2" CICR on 2-7/8" workstring. Set CICR.

10. MIRU SLB cement crew. Sting into CICR and squeeze casing leak, circulating cement to surface through 5-1/2" x 8-5/8" casing vavle, as per SLB recommendation. Sting out of CICR, circulate clean, and pull complete out of hole with 2-7/8" workstring. RD Schlumberger. WOC overnight.
11. PU and GIH with 4-3/4" MT bit on 2-7/8" WS to CICR. Drill CICR and cement to CIBP at 6685'. Pressure annulus to 500 psi to test squeeze perfs. POH. **Notify engineering if squeeze perfs do not test.**
12. MIRU WL. GIH with 3-3/8" RHSC Gunslinger casing guns (0.42" EH & 47" penetration) and perforate the following intervals with 2 JSPF at 120 degree phasing using 25 gram premium charges:

Top	Bottom	Net Ft.	No. Shots
4608	4615	7	14
4618	4624	6	12
4628	4634	6	12
4962	4972	10	20
5122	5130	8	16
5140	5150	10	20
5236	5246	10	20

13. POH. RD and Release WL. **Note: Use CBL ran in Step #5 of procedure for depth correction.**
14. RIH w/ 5-1/2" PPI packer w/ SCV and 12' element spacing. Test PPI packer in blank pipe. Mark Settings.
15. MI & RU DS Services. Acidize perfs 4608'-5246' with 1,400 gal 15% NEFE HCl acid\* at a maximum rate of 1/2 BPM and a maximum surface pressure of **4000 psi** as follows:

Top Depth	Btm Depth	Rate	Volume
5235	5247	1/2	200
5139	5151	1/2	200
5120	5132	1/2	200
4961	4973	1/2	200
4626	4638	1/2	200
4614	4626	1/2	200
4606	4618	1/2	200

Displace acid with 8.6 PPG cut brine water -- do not over displace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Note: If communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 500 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.**

\* Acid system to contain:

1 GPT A264 Corrosion Inhibitor  
8 GPT L63 Iron Control Agents

2 PPT A179 Iron Control Aid  
20 GPT U66 Mutual Solvent  
2 GPT W53 Non-Emulsifier

16. Release PPI & PU to approximately 4550'. Set pkr @ 4550'. Fish SCV. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered volumes, pressures, and/or swabbing fluid levels. **Note: Selectively swab perfs as directed by engineering if excessive water is produced.**
17. Open well. Release PPI pkr. POH w/ WS and PPI pkr. LD PPI tool.
18. PU and GIH with 4-3/4" bit on 2-7/8" 6.50# L-80 workstring to 5500'. If fill is tagged above 5500', notify engineering before proceeding. POH with WS and bit. LD WS and bit.
19. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS.
20. RD Key PU & RU. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Engineer – Richard Jenkins  
432-687-7120 Office  
432-631-3281 Cell

**Monument: Drinkard North****Location:**

677' FSL &amp; 791' FWL, Sec12, T-19S, R-36E

**Unit Letter:** M**Field:** Monument. Drinkard North**County:** Lea**State:** NM**Area:** Hobbs**Monument "12" State #10****Well Info:****Comp. Date:** 7/1/1997**Spud Date:** -**API:** 30-025-33998**RefNO:** BN7570**Lease No:** State**Elevations****KB:** 13'**GL:** 3735'**DF:****Current  
Wellbore Diagram**State  
Oil

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland Office well file, computer databases as of the update below. Verify what is in the hole with well file in the Eunice Field Office. E w/ WEO Engineer, WO Rep, OS, ALS, & to rigging up on well regarding any h: unknown issues pertaining to the w:

**Tubing Detail as of 10/7/2003**

jts. component	length
KB	13
215 2-7/8" J-55 6 50# EUE Tubing	6752 12
2 25" Seat Nipple - STD	1 1
Bottom Hole Bumper Assembly	2 25
215	Bottom Depth => 6768.47

**Surface Casing****Size:** 11-3/4", 42#, H-40**Set @:** 400'**With:** 300 sx. cmt.**Hole Size:** 14-3/4"**Circ:** Yes**TOC @:** Surface**Intermediate Casing****Size:** 8-5/8", 24#, K-55 8rd**Set @:** 2775'**With:** 850 sx cmt.**Hole Size:** 11"**TOC:** Surface

TOC @ 5878'

**Perfs**

6722'-46'

6748'-56'

6791'-6800'

**Status**

Drinkard - Open

Drinkard - Open

Drinkard - Open

**Perfs**

6840'-58'

**Status**

Drinkard - Sqz'd

**Perfs**

6976'-86'

7009'-15'

**Status**

Drinkard - Sqz'd

Drinkard - Sqz'd

**Production Casing****Size:** 5-1/2", 15 5/17#, K-55**Set @:** 7210'**With:** 200 sx. cmt.**Hole Size:** 7-7/8"**TOC:** 5878' by CBL**Abo: 7210' - 7470' Open hole (Sqz'd)****Updated:** 24-Jun-08**By:** rjdg

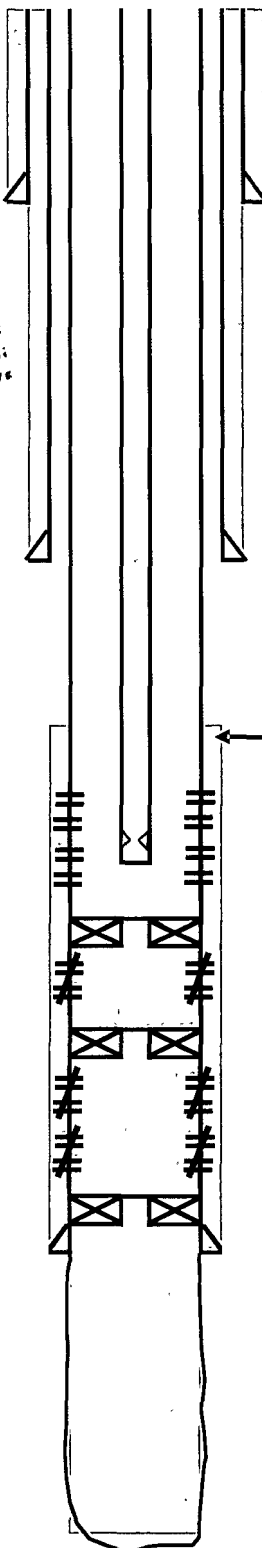
CICR @ 6826'

CICR @ 6918'

CICR @ 7155' w/ 35' cmt

PBTD: 6826'

TD: 7470'

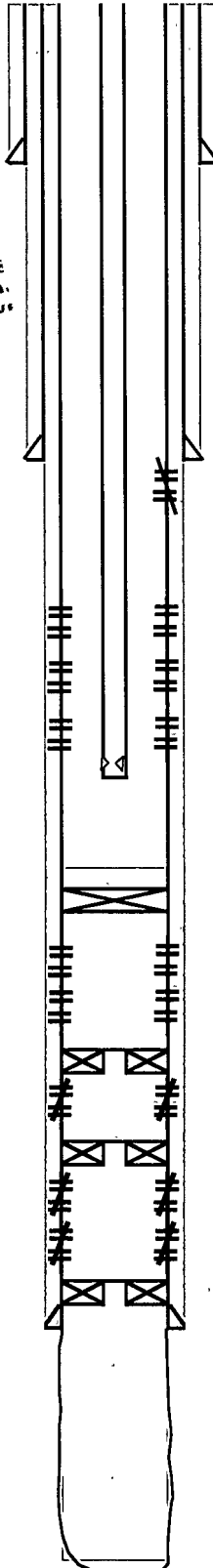


**Wildcat; Delaware****Location:**

677' FSL &amp; 791' FWL, Sec12, T-19S, R-36E

**Unit Letter:** M**Field:** Monument North, Delaware (Wildcat)**County:** Lea**State:** NM**Area:** Hobbs**Monument "12" State #10****Well Info:****Comp. Date:** 7/1/1997**Spud Date:** -**API:** 30-025-33998**RefNO:** BN7570**Lease No:** State**Proposed  
Wellbore Diagram****Elevations****KB:** 13'**GL:** 3735'**DF:**

This wellbore diagram is based on the most recent information and equipment that could be found in the Midland Office well file, computer databases as of the update below. Verify what is in the hole with well file in the Eunice Field Office. C w/ WED Engineer, WD Rep, OS, ALS, & to rigging up on well regarding any h. unknown issues pertaining to the w.

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4608'-4615' Delaware - Open

4618'-4624' Delaware - Open

4628'-4634' Delaware - Open

4962'-4972' Delaware - Open

5122'-5130' Delaware - Open

5140'-5150' Delaware - Open

5236'-5246' Delaware - Open

**Status**

Delaware - Open

Delaware - Open

Delaware - Open

Delaware - Open

Delaware - Open

Delaware - Open

Delaware - Open

CIBP @ 6685' w/ 35' cmt on top

CICR @ 6826'

CICR @ 6918'

CICR @ 7155' w/ 35' cmt

PBTD: 6650'

TD: 7470'

**Perfs**

6722'-46' Drinkard - Below CIBP

6748'-56' Drinkard - Below CIBP

6791'-6800' Drinkard - Below CIBP

**Status**

Drinkard - Below CIBP

Drinkard - Below CIBP

Drinkard - Below CIBP

**Perfs**

6840'-58' Drinkard - Sqz'd

**Status**

Drinkard - Sqz'd

**Perfs**

6976'-86' Drinkard - Sqz'd

7009'-15' Drinkard - Sqz'd

**Status**

Drinkard - Sqz'd

Drinkard - Sqz'd

**Production Casing****Size:** 5-1/2", 15 5/17#, K-55**Set @:** 7210'**With:** 200 sx cmt**Hole Size:** 7-7/8"**TOC:** 5878' by CBL**Abo: 7210' - 7470' Open hole (Sqz'd)****Updated:** 24-Jun-08**By:** rjdg

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-33998	<sup>2</sup> Pool Code ✓	<sup>3</sup> Pool Name MONUMENT NORTH; DELAWARE (WILDCAT)
<sup>4</sup> Property Code 18927	<sup>5</sup> Property Name MONUMENT "12" STATE	<sup>6</sup> Well Number 10
<sup>7</sup> OGRID No. 4323	<sup>8</sup> Operator Name CHEVRON U.S.A. INC.	<sup>9</sup> Elevation 3735' GL

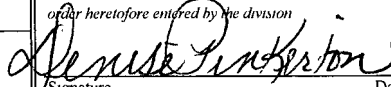
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	12	19-S	36-E		677	SOUTH	791	WEST	LEA

<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<sup>16</sup>				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i>  Signature 08-04-2008 Date DENISE PINKERTON REGULATORY SPECIALIST Printed Name
				<sup>18</sup> 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>  Date of Survey Signature and Seal of Professional Surveyor  Certificate Number

