

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

RECEIVED Energy Minerals and Natural Resources

Form C-101

June 16, 2008

MAY 19 2010

HOBBSOCD

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

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

<sup>1</sup> Operator Name and Address CHEVRON MIDCONTINENT, L P 15 SMITH ROAD MIDLAND, TEXAS 79705		<sup>2</sup> OGRID Number 241333
		<sup>3</sup> API Number 30 - 025-06988

<sup>3</sup> Property Code 302761	<sup>5</sup> Property Name HUGH CORRIGAN	<sup>6</sup> Well No 1
--------------------------------------	---	---------------------------

<sup>9</sup> Proposed Pool 1 PENROSE SKELLY GRAYBURG	<sup>10</sup> Proposed Pool 2
---	-------------------------------

<sup>7</sup> Surface Location									
UL or lot no O	Section 33	Township 21-S	Range 37-E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 1974	East/West line EAST	County LEA

<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

**Additional Well Information**

<sup>11</sup> Work Type Code P	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 7679'	<sup>18</sup> Formation GRAYBURG	<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 GRAYBURG RESERVOIR. 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.

Signature:

Denise Pinkerton

Printed name:  
DENISE PINKERTONTitle:  
REGULATORY SPECIALISTE-mail Address:  
leakejd@chevron.comDate  
05-18-2010Phone:  
432-687-7375**OIL CONSERVATION DIVISION**

Approved by:

Title:

PETROLEUM ENGINEER

Approval Date:  
JUN 01 2010

Expiration Date:

Conditions of Approval Attached ☐

- dm

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

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

RECEIVED  
MAY 19 2010  
HOBBSOCD

Form C-102  
Revised October 15, 2009  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-06988	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name PENROSE SKELLY GRAYBURG
<sup>4</sup> Property Code 302761	<sup>5</sup> Property Name HUGH CORRIGAN	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 241333	<sup>8</sup> Operator Name CHEVRON MIDCONTINENT, L P	<sup>9</sup> Elevation

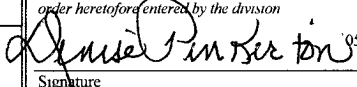
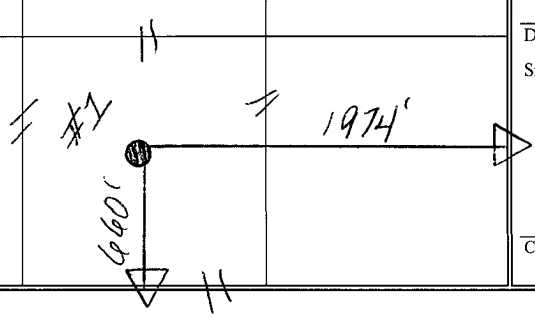
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	33	21-S	37-E		660	SOUTH	1974	EAST	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 Date 05-18-2010 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
				

**Hugh Corrigan # 1**  
**Penrose Skelly Field**  
**T21S, R37E, Section 33**  
**Job: PB To Grayburg Formation, Acidize, And Frac**

**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 4/21/2010. 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/1000 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.
4. PU and GIH with 1 joint of 2 3/8" open-ended tbg, 4 1/4" string mill, and 2 3/8" EUE 8R L-80 work string to top of cut 5" csg at 3674'. Lower down inside 5" csg and mill out any tight spots in 5" csg down to COTD at approximately 3970'. Reverse circulate well clean from 3970' using 8.6 PPG cut brine water. **Note: If well will not circulate, MI&RU air unit and circulate using foam.** POH with 2 3/8" work string and string mill. LD string mill. PU 4 1/4" bladed junk mill and GIH on 2 3/8" work string to COTD at approximately 3970'. Lower down and clean out 5" casing to approximately 4200'. Reverse circulate well clean from 4200' using 8.6 PPG cut brine water. POH with 2 3/8" work string and mill. LD mill.
5. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and set CIBP at 4185'. POH. GIH and dump bail 35' of cement on top of CIBP at 4185'. POH. GIH with 3 3/8" RHSC Gunslinger casing guns (0.42" EH & 47" penetration) and perforate from 3635-44', 3658-66', 3673-81', 3685-91', 3696-3703', 3710-13', 3723-33', 3736-44', 3778-84', 3790-97', 3800-07', 3821-27', 3830-39', 3854-59', 3863-69', 3873-77', 3880-83', and 3886-90' with 4 JSPF at 120 degree phasing, using 25 gram premium charges. POH. RD & release electric line unit. **Note: Use casing collars from Baker Atlas GR-CBL-CCL Log dated 5/7/2010 for depth correction.**
7. PU and GIH w/ 7" Arrow-Set 10K pkr & On-Off tool w/ 2.25" "F" profile and 114 jts. of 3 1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3500'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.

11. MI & RU DS Services and ProTechnics Services. Frac well down 3 ½" tubing at **40 BPM** with 88,000 gals of YF125, 176,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR1630 proppant. Observe a maximum surface treating pressure of **8000 psi**. Tag frac with 2 radioactive isotopes (1 in regular sand stages, and 1 in resin-coated proppant stage). Pump job as follows:

Pump 2,000 gals 2% KCL water containing 55 gals Baker RE 4777-SCW Scale Inhibitor at **6 BPM**

Pump 1,000 gals 2% KCL water spacer at **20 BPM**

Pump 14,000 gals YF125 pad containing 5 GPT J451 Fluid Loss Additive at **40 BPM**

Pump 14,000 gals YF125 containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 FL Additive

Pump 12,000 gals YF125 containing 1.5 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals YF125 containing 2.5 PPG 16/30 mesh Jordan Sand

Pump 14,000 gals YF125 containing 3.5 PPG 16/30 mesh Jordan Sand

Pump 16,000 gals YF125 containing 4.5 PPG 16/30 mesh Jordan Sand

Pump 6,000 gals YF125 containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

Flush to 3600' with 1,444 gals WF125. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and ProTechnics Services. **Leave well SI overnight.**

12. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
13. PU and GIH with 4 1/4" MT bit on 2 3/8" work string to PBTD at 4150'. If fill is tagged above 4100', cleanout to 4150' using 8.6 PPG cut brine water and air unit or bailer if necessary. POH with 2 3/8" work string and bit. LD bit.
14. PU & GIH with 7" pkr on 2 3/8" work string to 3500'. Set pkr at 3500'. Open well. GIH and swab well until there is no sand inflow. Swab well for at least 3 hours before logging. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH and conduct after-frac PRISM GR/Temp/CCL log from 4150' up to 3000'. POH. RD & release electric line unit. **Note: Use casing collars from Baker Atlas GR-CBL-CCL Log dated 5/7/2010 for depth correction.**
15. Release pkr. POH LD 2 3/8" work string and pkr.
16. PU and GIH w/ BP mud anchor jt of 2 3/8" tbg, 2 3/8" x 4' perforated sub, SN, 1 jt 2 3/8" EUE 8R J-55 IPC tbg, 13 jts 2 3/8" EUE 8R J-55 tbg, TAC, and 115 jts 2 3/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3575', with EOT at 4050' and SN at 4015'.
17. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS recommended design. RD & release pulling unit.
18. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

## Hugh Corrigan #1

### Location:

660' FSL & 1974' FEL, Sec-33, T-21S, R-37E  
**Unit Letter:** O  
**Field:** Penrose Skelly  
**County:** Lea  
**State:** NM  
**Area:** Hobbs

### Well Info:

**Spud Date:** 7/5/1938  
**API:** 30-025-06988  
**Cost Center:** BCU31FM00  
**Completion Date:** 8/1/1938  
**CHEVNO:** FA8085  
**Lease:** FEE

### Current

### Wellbore Diagram

### Elevations:

**GL:** 3459'  
**KB:** 3471'  
**DF:** 3469'

This wellbore diagram 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 the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

### Surface Casing

**Size:** 9-5/8"  
**Set @:** 1214'  
**With:** 275 sks cmt & 9 aquagel  
**Hole Size:** 12-1/4"  
**TOC @:** 613'  
**By:** Calculation

### Intermediate Casing

**Size:** 7"  
**Set @:** 3607'  
**With:** 175 sks & 9 aquagel  
**Hole Size:** 8-3/4"  
**TOC:** 2674'  
**By:** CBL

Top of 5" Parted Csg @ 3674'

Jet cutter fired @ 3685'  
 Split shot fired @ 3689'  
 Split shot fired @ 3719'  
 Jet cutter fired @ 3729'  
 Split shot fired @ 4210'

Cement plug fr/ 4778'-5200'

TOC @ 3698'

CIBP @ 5410' w/20' cmt

CIBP @ 7468' w/10' cmt

**Updated:** 4/21/2010  
**By:** maho  
**PBTD:** 4778  
**TD:** 7679'

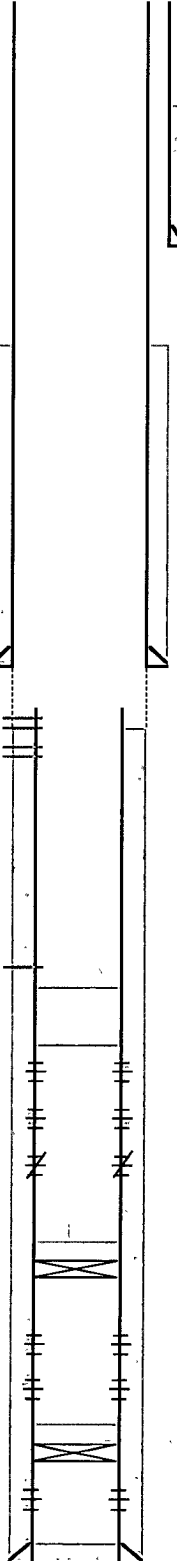
Perfs:		Status:
5165-80'	Paddock	Open
5218-24'	Paddock	Open
5282-98'	Paddock	Open
5271-5286'	Paddock	Sqz'd
5293-5307'	Paddock	Sqz'd

Perfs:		Status:
7028-50'	Abo	Open- below CIBP
7082-91'	Abo	Open- below CIBP
7128-45'	Abo	Open- below CIBP
7173-84'	Abo	Open- below CIBP
7210-35'	Abo	Open- below CIBP
7245-95'	Abo	Open- below CIBP

Perfs:		Status:
7644-7692'	Ellenburger	Open- below CIBP

### Production Casing

**Size:** 5" 15# J-55 & N-80  
**Set @:** 7658'  
**With:** 300 sks  
**Hole Size:** 6-1/4"  
**TOC:** 3698'  
**By:** CBL



# Hugh Corrigan #1

## Location:

660' FSL & 1974' FEL, Sec-33, T-21S, R-37E  
 Unit Lette O  
 Field: Penrose Skelly  
 County: Lea  
 State: NM  
 Area: Hobbs

## Well Info:

Spud Date: 7/5/1938  
 API: 30-025-06988  
 Cost Center: BCU496900  
 Completion Date: 8/1/1938  
 CHEVNO: FA8085  
 Lease: FEE

## Proposed Wellbore Diagram

## Elevations:

GL: 3459'  
 KB: 3471'  
 DF: 3469'

## Tubing Detail

#Jts	Size	Footage
	KB Correction	11.00
115	Jts 2 3/8" EUE 8R J-55 Tbg	3565.00
	TAC	3.15
13	Jts 2 3/8" EUE 8R J-55 Tbg	403.00
1	Jt 2 3/8" EUE 8R J-55 IPC Tbg	31.00
	SN	1.10
	2 3/8" x 4' Perf Tbg Sub	4.00
1	Jt 2 3/8" EUE 8R J-55 Tbg	31.00
	Bull Plug	0.50
130	Bottom Of String >>	4049.75

Top of 5" Parted Csg @ 3674'

Jet cutter fired @ 3685'  
 Split shot fired @ 3689'  
 Split shot fired @ 3719'  
 Jet cutter fired @ 3729'  
 Split shot fired @ 4210'

CIBP @ 4185' w/35' cmt

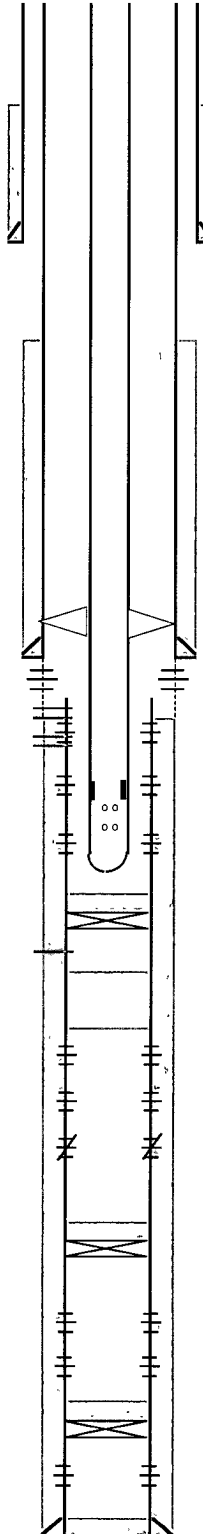
Cement plug fr/ 4778'-5200'

CIBP @ 5410' w/20' cmt

CIBP @ 7468' w/10' cmt

Updated: 4/21/2010

By: maho  
 PBD: 4150'  
 TD: 7679'



## Surface Casing

Size: 9-5/8"  
 Set @: 1214'  
 With: 275 sks cmt & 9 aquagel  
 Hole Size: 12-1/4"  
 TOC @ 613'  
 By: Calculation

This wellbore diagram 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 the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

## Intermediate Casing

Size: 7"  
 Set @: 3607'  
 With: 175 sks & 9 aquagel  
 Hole Size: 8-3/4"  
 TOC: 2674'  
 By: CBL

Perfs:		Status:
3635-3644'	Grayburg	Open
3658-3666'	Grayburg	Open
3673-3681'	Grayburg	Open
3685-3691'	Grayburg	Open
3696-3703'	Grayburg	Open
3710-3713'	Grayburg	Open
3723-3733'	Grayburg	Open
3736-3744'	Grayburg	Open
3778-3784'	Grayburg	Open
3790-3797'	Grayburg	Open
3800-3807'	Grayburg	Open
3821-3827'	Grayburg	Open
3830-3839'	Grayburg	Open
3854-3859'	Grayburg	Open
3863-3869'	Grayburg	Open
3873-3877'	Grayburg	Open
3880-3883'	Grayburg	Open
3886-3890'	Grayburg	Open

Perfs:		Status:
5165-80'	Paddock	Below CIBP
5218-24'	Paddock	Below CIBP
5282-98'	Paddock	Below CIBP
5271-5286'	Paddock	Sqz'd
5293-5307'	Paddock	Sqz'd

Perfs:		Status:
7028-50'	Abo	Below CIBP
7082-91'	Abo	Below CIBP
7128-45'	Abo	Below CIBP
7173-84'	Abo	Below CIBP
7210-35'	Abo	Below CIBP
7245-95'	Abo	Below CIBP

Perfs:		Status:
7644-7692'	Ellenburger	Below CIBP

## Production Casing

Size: 5" 15# J-55 & N-80  
 Set @: 7658'  
 With: 300 sks  
 Hole Size: 6-1/4"  
 TOC: 3698'  
 By: CBL