

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, 2003

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

**7 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
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**8 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**

<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

**21 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 PINKERTON

Title

REGULATORY SPECIALIST

E-mail Address

leakejd@chevron.com

Date

11-04-2008

Phone

432-687-7375

**OIL CONSERVATION DIVISION**

Approved by

*[Signature]*

Title

**PETROLEUM ENGINEER**

Approval Date

Expiration Date

**NOV 12 2008**

Conditions of Approval Attached ☐

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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 30-025-06988	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name PENROSE SKELLY GRAYBURG
<sup>4</sup> Property Code	<sup>5</sup> Property Name HUGH CORRIGAN	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 421333	<sup>8</sup> Operator Name CHEVRON MIDCONTINENT, L.P.	<sup>9</sup> Elevation

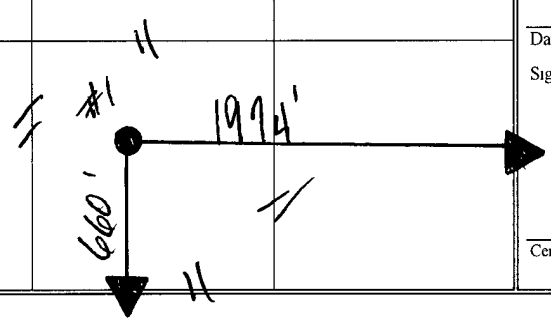
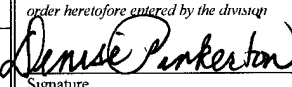
<sup>10</sup> Surface Location

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
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<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> <b>OPERATOR CERTIFICATION</b> <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> <div style="display: flex; justify-content: space-between;"><div> Signature</div><div>11-04-2008 Date</div></div> <div>DENISE PINKERTON REGULATORY SPECIALIST Printed Name</div>					
<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> <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> <div style="display: flex; justify-content: space-between;"><div>Date of Survey</div><div>Signature and Seal of Professional Surveyor</div></div> <div>Certificate Number</div>					

**Hugh Corrigan #1**  
**Penrose Skelly - Grayburg**  
**T21S, R37E, Section 33**  
**Job: Plug Back to Grayburg**

**WBS #: UWDPS-R8224**

**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 8/26/2008. 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. POOH & LD rods. Remove WH. Install BOP's and test as required. POOH and LD 2-3/8" tbg.
4. PU and GIH with 4-1/4" MT bit, 5200' of 2-7/8" New Class "A" tbg, & 2-7/8" WS as needed. Circulate well clean from 5200' using 8.6 PPG cut brine water, if possible. Foam air if necessary. POOH with tbg string and bit. LD bit.
5. MI & RU WL. GIH w/ CIBP to 5100'. Set 5" CIBP at 5100'. Pressure test casing and CIBP to 500 psi. If CIBP does not test isolate leak POOH. LD setting tool.
6. GIH and conduct GR/CBL/CCL from 5100' up to surface. Run log with 500 psi on casing. POOH. Inspect logs for good cement bond from approximately 4100' up to 3400'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding.  
**NOTE: May need to block squeeze before perforating.**
7. GIH with 3 1/8" slick casing guns and perforate the following intervals with 4 JSPF at 120 degree phasing using 23 gram premium charges:

<i>Top Perf</i>	<i>Bottom Perf</i>	<i>Net Feet</i>	<i>Holes</i>
3886	3890	4	16
3880	3883	3	12
3873	3877	4	16

3863	3869	6	24
3854	3859	5	20
3830	3839	9	36
3821	3827	6	24
3800	3807	7	28
3790	3797	7	28
3778	3784	6	24
3736	3744	8	32
3723	3733	10	40
3710	3713	3	12
3696	3703	7	28
3685	3691	6	24
3673	3681	8	32
3635	3644	9	36
<b>Totals</b>		<b>108</b>	<b>432</b>

8. POOH. GIH and dump bail 35' of cement on top of CIBP at 5100'. POOH RD & release WL.  
**Note: Use Frontier GR-neutron log dated 10-4-1961.**
9. RIH w/ 5" PPI packer w/ SCV and 12' element spacing. Test PPI packer in blank pipe. Mark Settings.
10. MI & RU DS Services. Acidize perfs 3635-3890' with 3,000 gals 15% NEFE HCl acid\* at a maximum rate of  $1\frac{1}{2}$  BPM and a maximum surface pressure of **4000 psi** as follows:

<b>Perfs</b>	<b>Net Feet</b>	<b>Acid Volume</b>	<b>PPI Settings</b>
3886-3890	4	177	3887-3899
3880-3877	7	354	3872-3884
3863-3869	6	177	3860-3872
3854-3859	5	177	3850-3862
3830-3839	9	177	3828-3840
3821-3827	6	177	3816-3828
3800-3807	7	177	3799-3811
3790-3797	7	176	3787-3799
3778-3784	6	176	3774-3786
3736-3744	8	176	3734-3746
3723-3733	10	176	3722-3734
3710-3713	3	176	3708-3720
3696-3703	7	176	3694-3706
3685-3691	6	176	3682-3694
3673-3681	8	176	3670-3682
3635-3644	9	176	3634-3646
<b>Totals</b>		<b>3000</b>	

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:** Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only ½ gal A264 and 1 gal W53. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 350 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

11. Release PPI & PU to approximately 3600'. Set pkr @ 3600'. Fish SCV & SV. 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.

12. Open well. Release PPI pkr. POOH w/ tbg and PPI pkr. LD PPI tool.

13. PU and GIH w/ 5" 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 8000 psi. Set pkr at approximately 3600'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to aid in observing communication.

14. MI & RU DS Services and Rita Dickey (432-553-2526). 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 **7500 psi**. 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 3702' (1 bbl short) with 1,372 gal WF125. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services. **Leave well SI overnight.**

15. Open well. Bleed pressure from well, if any. Release pkr. POOH LD 3 ½" work string, on-off tool, and pkr.

16. PU and GIH with 4-1/4" MT bit on 4,200' of 2-7/8" new Class "A" tbg & WS to approximately 4200'. If fill is tagged above 4200', cleanout to 4200' using 8.6# PPG cut brine water using air unit if necessary. POH with 2 7/8" tbg and bit. LD bit.
17. PU & GIH with 5" pkr on 2 7/8" tbg string to 3600'. Set pkr at 3600'. Open well. GIH and swab well until there is no sand inflow
18. Release pkr. POOH 2-7/8" tubing and pkr.
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 – Lonnie Grohman  
432-687-7420 Office  
432-238-9233 Cell

**Location:**

660' FSL & 1740' FEL, Sec-33, T-21S, R-37E  
 Unit Letter: O  
 Field: Penrose Skelly  
 County: Lea  
 State: NM  
 Area: Hobbs

**Hugh Corrigan #1**

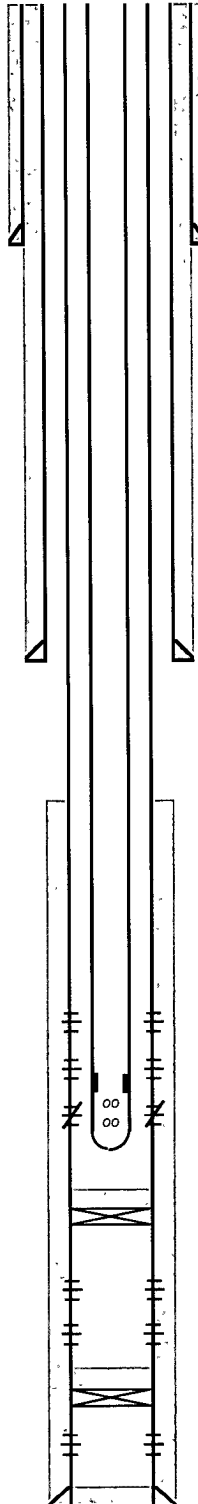
**Well Info:**

Spud Date: 7/15/1938  
 API: 30-025-06988  
 Cost Center: BCU496900  
 WBS#: UWDPS-R8224  
 RefNO: FA8085  
 Lease: FEE

**Current Wellbore Diagram**

**Elevations:**

DF:  
 KB:  
 GL:



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/ WED 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: 2827'  
 By: Calculation

**Perfs:**

5271-5286' Paddock  
 5293-5307' Paddock  
 5165-80' Paddock  
 5218-24' Paddock  
 5282-98' Paddock

**Status:**

Sqz'd  
 Sqz'd  
 Open  
 Open  
 Open

**Perfs:**

7028-50' Abo  
 7082-91' Abo  
 7128-45' Abo  
 7173-84' Abo  
 7210-35' Abo  
 7245-95' Abo

**Status:**

Open- below CIBP  
 Open- below CIBP  
 Open- below CIBP  
 Open- below CIBP  
 Open- below CIBP  
 Open- below CIBP

**Perfs:**

7644-7672' Ellenburger

**Status:**

Open- below CIBP

**Production Casing**

Size: 5" 15# H-80 EL, J-55 8rd, J-55 EL  
 Set @: 7679'  
 With: 325 sks  
 Hole Size: 6-1/4"

CIBP @ 5410' w/20' cmt

CIBP @ 7468' w/10' cmt

Updated: 22-Aug-08

By: lgek

PBTD: 5390'

TD: 7679'

CMLP

# Hugh Corrigan #1

## Location:

660' FSL & 1740' FEL, Sec-33, T-21S, R-37E  
 Unit Letter: O  
 Field: Penrose Skelly  
 County: Lea  
 State: NM  
 Area: Hobbs

## Well Info:

Spud Date:  
 API:  
 Cost Center:  
 WBS#:  
 RefNO:  
 Lease:

## Proposed Wellbore Diagram

## Elevations:

DF:  
 KB:  
 GL:

## Surface Casing

Size:  
 Set @:  
 With:  
 Hole Size:  
 TOC @:  
 By:

## Intermediate Casing

Size:  
 Set @:  
 With:  
 Hole Size:  
 TOC:  
 By:

## Perfs

3535-3644'  
 3673-3681'  
 3685-3691'  
 3696-3703'  
 3710-3713'  
 3723-3733'  
 3736-3744'  
 3778-3784'  
 3790-3797'  
 3800-3807'  
 3821-3827'  
 3830-3839'  
 3854-3859'  
 3863-3869'  
 3873-3877'  
 3880-3883'  
 3886-3890'

## Perfs.

5271-5286'  
 5293-5307'  
 5165-80'  
 5218-24'  
 5282-98'

## Perfs:

7028-50'  
 7082-91'  
 7128-45'  
 7173-84'  
 7210-35'  
 7245-95'

## Perfs:

7644-7672'

## Production Casing

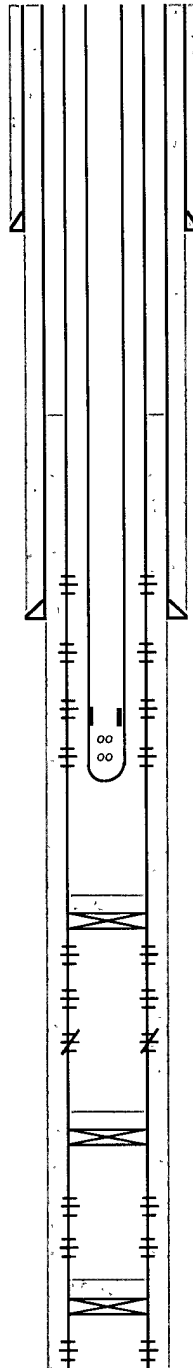
This wellbore diagram is based on the most recent information and equipment that could be found in the Midland Office well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discuss w/ WED Engineer, WQ Rep, OS ALS, & FS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

CIBP @ 5100' w/35' cmt

CIBP @ 5410' w/20' cmt

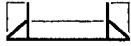
CIBP @ 7468' w/10' cmt

Updated: 22-Aug-08  
 By: lgek





PBTD 5065'  
TD: 7679'



Size:  
Set @:  
With