

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  
May 27, 2

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

RECEIVED

Appropriate District Of  
☐ AMENDED REPORT

APR 24 2008

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN  
PLUGBACK, OR ADD A ZONE

HOBBS OCD

<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 - 025-06990
<sup>3</sup> Property Code 302761	<sup>5</sup> Property Name HUGH CORRIGAN	<sup>6</sup> Well No 3
<sup>9</sup> Proposed Pool 1 PENROSE SKELLY GRAYBURG		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no J	Section 33	Township 21-S	Range 37-E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 1980	East/West line EAST	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

<sup>11</sup> Work Type Code D (Deepen)	<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 3448'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 3930	<sup>18</sup> Formation GRAYBURG	<sup>19</sup> Contractor	<sup>20</sup> Spud Date
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit	Liner. Synthetic <input type="checkbox"/> Closed-Loop System <input type="checkbox"/>	mils thick	Clay <input type="checkbox"/>	Pit Volume _____ bbls
Drilling Method Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

<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 MIDCONTINENT, L P INTENDS TO SQUEEZE QUEEN PERFORATIONS & DEEPEN 170 TO THE GRAYBURG

A PIT WILL NOT BE USED FOR THIS DEEPENING & RECOMPLETION

THE INTENDED PROCEDURE AND WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL

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

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature: Denise Pinkerton

Printed name: Denise Pinkerton

Title: Regulatory Specialist

E-mail Address: leakejd@chevron.com

Date: 04-23-2008

Phone: 432-687-7375

OIL CONSERVATION DIVISION

Approved by

Title: PETROLEUM ENGINEER

Approval Date: MAY 19 2008

Expiration Date

Conditions of Approval Attached ☐

**Hugh Corrigan # 3**  
**Penrose Skelly**  
**T21S, R37E, Section 33, Unit J**  
**Job: Squeeze Queen & Deepen to Grayburg & 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 4/7/2008. 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. POH & LD rods. Remove WH. Install BOP's and test as required. POH and LD 2-3/8" tbg.
4. PU and GIH with 6-1/8" MT bit on 2-7/8" WS to PBTD 3588'. POOH WS LD bit.
5. Set packer @ 3450' and establish injection rate. Send Injection rate to Schlumberger and Engineering for cement volume calculation/recommendation. POOH with pkr.
6. RIH w/cement retainer on 2-7/8" WS set @ 3450'. Prep for cement squeeze.
7. MIRU DS. Squeeze Queen perforations (3510-3514' & 3520-3540' 2 JHPF) as rate and pressure information dictates & DS recommendation. RD DS. Reverse out after stinging out of CR. TOH w/2-7/8" WS & WOC.  
**Note: Cement volume will be calculated from step #5.**
8. RIH with 6-1/8" MT bit. MIRU air unit. Drill out cement retainer and continue drilling through squeezed perms. Test backside to 350# once squeeze perms are drilled out. Drill out CIBP @ 3610', TOC @ 3552'. Continue drilling to 3765'. TOH with 2-7/8" WS, DC, and LD MT bit.
9. RIH with 6-1/8" button bit on 2-7/8" WS with 12 DC's. Drill new hole from 3758-3930'. Sweep hole & circulate hole clean. POOH LD DC's & Bit.
10. MIRU Baker Atlas electric line truck. Run CNL on open hole section from 3641-3930'.

11. MI & RU DS Services. Pump down tbg and acidize open-hole from 3641-3930' with 3,000 gals anti-sludge 15% HCl acid \* at a maximum rate of **4 BPM** and a maximum surface pressure of **2500 psi**. Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Record ISIP, 5, 10, & 15 minute SIP's. RD and release DS services.

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.

* 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

12. Open well. GIH and swab back spent fluids. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered fluid volumes, pressures, and/or swabbing fluid levels.

13. PU and GIH w/ 7" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 112 jts of 3-1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3541'. 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 1/2" 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**. 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 3588' (2 bbl short) with 1,369 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. POH LD 3 1/2" work string, on-off tool, and pkr.

16. PU and GIH with 5- 5/8" MT bit on 2 7/8" Class "A" tubing 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 7" pkr on 2 7/8" tbg string to 3550'. Set pkr at 3550'. Open well. GIH and swab well until there is no sand inflow
18. Release pkr. POOH 2-7/8" tbg 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

### Hugh Corrigan #3

**Location:**

1980' FSL & 1980' FEL, Sec-33, T-21S, R-37E  
Unit Letter: J  
Field: Penrose Skelly  
County: Lea  
State: NM  
Area: Hobbs

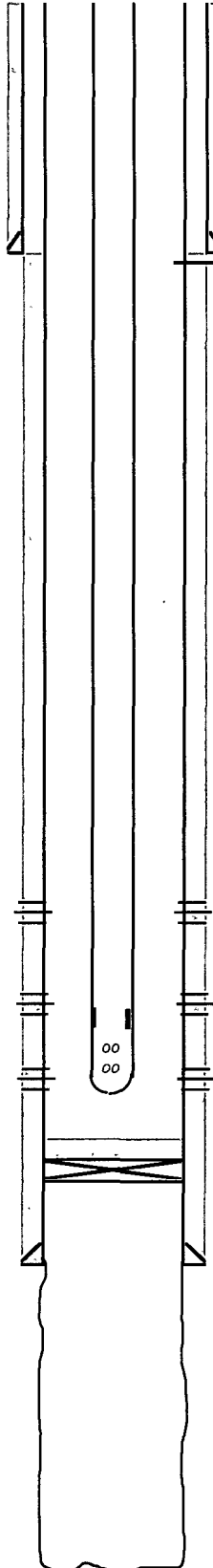
**Well Info:**

Spud Date: 6/3/1939  
API: 30-025-06990  
Cost Center:  
WBS#:  
RefNO: FA8087  
Lease: FEE

**Current****Wellbore Diagram****Elevations:**

DF:  
KB:  
GL: 3448'

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, WDO Rep, QS, ALS & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

**Surface Casing**

Size: 9-5/8" 36#  
Set @: 1236'  
With: 325 sks  
Hole Size: 12-1/4"  
Circ: yes  
TOC @ surface

Csg Leak cmt sqz 200 sks

**Perfs:**

3510-3514' Queen  
3520-40' Queen

**Status:**

Open- 2JHPF  
Open- 2JHPF

**Production Casing**

Size: 7" 24#  
Set @: 3641'  
With: 275 sks  
Hole Size: 8-3/4"  
TOC: 1629'  
By: Calculation

Open Hole 3641-3758'

CIBP @ 3610' w/10 sks

**Updated:**

By: lgek  
PBSD: 3588'  
TD: 3758'

### Hugh Corrigan #3

**Location:**

1980' FSL & 1980' FEL, Sec-33, T-21S, R-37E  
Unit Letter: J  
Field:  
County: Lea  
State: NM  
Area: Hobbs

**Well Info:**

Spud Date: 6/3/1939  
API: 30-025-06990  
Cost Center:  
WBS#:  
RefNO: FA8087  
Lease: FEE

**Proposed**  
**Wellbore Diagram**

**Elevations:**

DF:  
KB:  
GL: 3448'

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" 36#  
Set: @ 1236'  
With: 325 sks  
Hole Size: 12-1/4"  
Circ: yes  
TOC @ surface

Csg Leak cmt sqz 200 sks

Perfs: 3510-3540' Queen

Status: Sqz'd

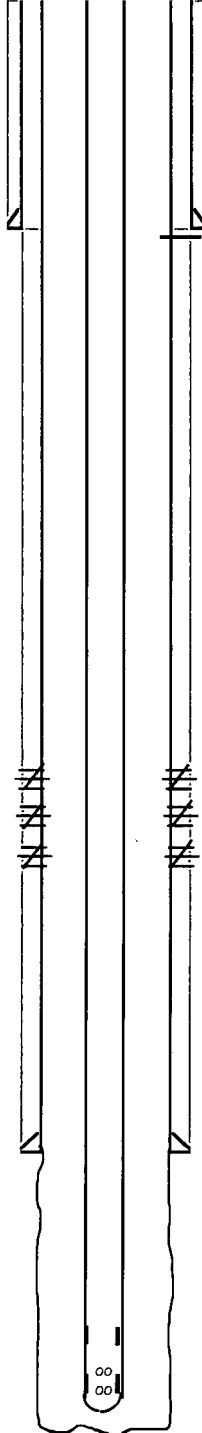
**Production Casing**

Size: 7" 24#  
Set @: 3641'  
With: 275 sks  
Hole Size: 8-3/4"  
TOC: 1629'  
By: Calculation

CIBP @ 3610' w/10 sks

**Updated:**

By: lgek  
PBD: 3930  
TD: 3930



## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

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## State of New Mexico

Energy, Minerals &amp; 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 30-025-06990		<sup>2</sup> Pool Code 50350		<sup>3</sup> Pool Name PENROSE SKELLY GRAYBURG	
<sup>4</sup> Property Code 30276J		<sup>5</sup> Property Name HUGH CORRIGAN			<sup>6</sup> Well Number 3
<sup>7</sup> OGRID No. 241333		<sup>8</sup> Operator Name CHEVRON MIDCONTINENT, L.P.			<sup>9</sup> Elevation 3448'

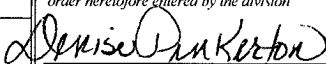
<sup>10</sup> Surface Location

UL or lot no. J	Section 33	Township 21-S	Range 37-E	Lot Idn.	Feet from the 1980'	North/South line SOUTH	Feet from the 1980'	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.

<div style="position: relative; height: 400px;"> <div style="position: absolute; top: 10%; left: 30%; border: 2px solid black; width: 150px; height: 100px;"></div> <div style="position: absolute; top: 10%; left: 30%;">#3</div> <div style="position: absolute; top: 10%; left: 50%;">1980'</div> <div style="position: absolute; top: 80%; left: 30%;">1980'</div> </div>	<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>04-23-2008 Date</div> </div> <div style="border-top: 1px solid black; padding-top: 5px;">           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>
	Date of Survey Signature and Seal of Professional Surveyor
	Certificate Number