

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

RECEIVED State of New Mexico
Energy Minerals and Natural Resources

Form C-101
June 16, 2001

MAY 11 2009

HOBBS

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**

¹ Operator Name and Address CHEVRON MIDCONTINENT, L P 15 SMITH ROAD MIDLAND, TEXAS 79705		² OGRID Number 241333
³ Property Code 302785		³ API Number 30 - 025-10209
⁵ Property Name S E LONG		⁶ Well No 8
⁹ Proposed Pool 1 PENROSE SKELLY GRAYBURG		¹⁰ Proposed Pool 2

Surface Location

UL or lot no J	Section 11	Township 22-S	Range 37-E	Lot Idn	Feet from the 1650	North/South line SOUTH	Feet from the 2310	East/West line EAST	County LEA
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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

P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3346' GL
¹⁶ Multiple NO	¹⁷ Proposed Depth 6456'	¹⁸ Formation GRAYBURG	¹⁹ Contractor	²⁰ Spud Date

Proposed Casing and Cement Program


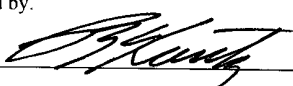
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
NO CHANGE					

²² 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 RECOMPLETE THE SUBJECT WELL IN THE PENROSE SKELLY GRAYBURG RESERVOIR.

THE INTENDED PROCEDURE AND CURRENT AND PROPOSED WELLBORE DIAGRAMS ARE ATTACHED FOR YOUR APPROVAL.

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

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature 		Approved by. 	
Printed name:- DENISE PINKERTON		Title: PETROLEUM ENGINEER	
Title: REGULATORY SPECIALIST		Approval Date.	
E-mail Address: leakejd@chevron.com		Expiration Date	
Date 04-29-2009	Phone 432-687-7375	MAY 19 2009	
		Conditions of Approval Attached <input type="checkbox"/>	

S.E. Long #8
Penrose Skelly
T22S, R38E, Section 11
Job: Plug Back to Grayburg

WBS:

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 11/3/2008. 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 & LD 2-3/8" tbg.
4. PU and GIH with 6-1/4" MT bit, 5375' of 2 7/8" New Class "A" tbg, & 2-7/8" WS as needed. POH with tbg string and bit. LD bit.
5. MI & RU WL. GIH w/ CIBP to 5325'. Set 7" CIBP at 5325'. Pressure test casing and CIBP to 500 psi. Notify engineering if CIBP does not test isolate leak. POH & LD setting tool.
6. MI & RU Gray WL electric line unit and mast truck. Install lubricator and test to 2000 psi. GIH and conduct GR/Compensated Neutron/CCL log from 4254' up to 2300'. POH. **Note: E-mail log to Adam English (akxl@chevron.com) for correlation and picking perfs.** GIH and conduct GR/CBL/CCL from 4254' up to 2277' (top of liner). Run log with 500 psi on casing. POH. Inspect logs for good cement bond from approximately 4200' up to 3500'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding. GIH with 3 3/8" RHSC Gunslinger casing guns (0.42" EH & 47" penetration) and perforate as directed with 4 JSPF at 120 degree phasing, using 25 gram premium charges. POH.

Note: Procedure will be revised once perfs are picked.

7. GIH and dump bail 35' of cement on top of CIBP at 5325'. POH RD & release WL.
8. RIH w/ 7" PPI packer w/ SCV and 12' element spacing. Test PPI packer in blank pipe. Mark Settings.
9. MI & RU DS Services. Acidize perfs with 3,000 gals 15% NEFE HCl acid* at a maximum rate of **1/2 BPM** and a maximum surface pressure of **4000 psi** as follows:

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

10. 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.**
11. Open well. Release PPI pkr. POH w/ tbg and PPI pkr. LD PPI tool.
12. PU and GIH w/ 7" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 3-1/2" EUE 8R L-80 work string to 3600', 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.
13. MI & RU DS Services and Rita Dickey (432-553-2526) & Gray Wireline/Tracer Tech. 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. Tag Jordan sand stages w/ isotope and resin stage w/ isotope. 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 with 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.**

14. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
15. PU and GIH with 6-1/4" MT bit on 2-7/8" production 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.
16. PU & GIH with 7" 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.
17. MI & RU Baker Atlas. Install lubricator and test to 1000 psi. GIH and conduct after-frac PRISM GR/Temp/CCL log from 4200' up to 3300'. POH. RD & release electric line unit.
18. Release pkr. POH 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

Engineer – Mike Howell
432-687-7516 Office

Geologist – Adam English
432-687-7416 Office

CMLP

S.E. Long #8

Location:

1650 FSL & 2310 FEL T-22S R-37 E Sec 11
Unit Letter: J
Field:
County: Lea
State: NM
Area: Hobbs

Well Info:

Spud Date: 10/6/1951
API: 30-025-10209
Cost Center:
WBS#:
RefNO: FB1209
Lease:

**Current
Wellbore Diagram**

Elevations:

DF:
KB:
GL: 3346'

TOL @ 2277'

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 Eutaw Field Office. Discuss w/ WEG Engineers, WEG Rep OS, ALS, & PS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

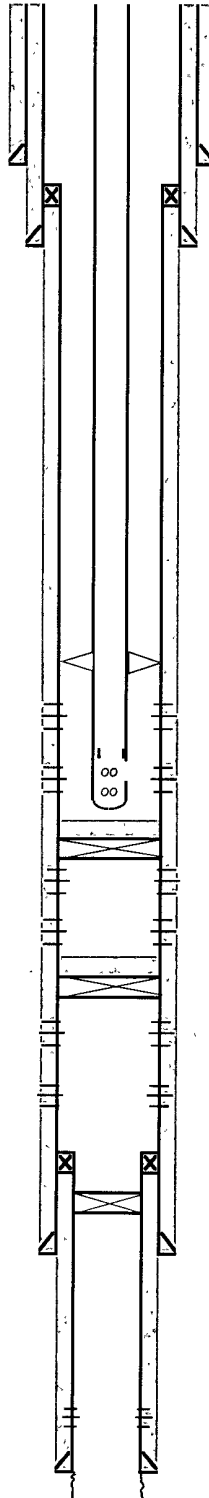
CIBP @ 5933' w/30' cmt

CIBP @ 5960' w/ 30' cmt

TOL @ 6278'

CIBP @ 6300'

PBTD: 5903'
TD: 6456'
Updated: 31-Oct-08
By: lgek



Surface Casing

Size: 13-3/8" 48#
Set: @ 265'
With: 250 sks
Hole Size: 17-1/4"
TOC @ Surface

Intermediate Casing

Size: 9-5/8" 36#
Set @: 2383'
With: 1290 sks
Hole Size: 11"
TOC:

Perfs

5375-5793' Blinbry
5421-5437' Blinbry

Perfs

6020-6100' Tubb

Liner

Size: 7" Liner
TOL 2277'
EOL 6370'
With: 570 sks
Hole Size: 8-3/4"

Production Liner

Size: 5" Liner
TOL: 6278'
EOL: 6451'
With: 30 sks
Hole Size: 6-1/8"

Perfs:

6440-6451' Drnkard

6451-6456' Open Hole

S.E. Long #8

Location:

1650 FSL & 2310 FEL T-22S R-37 E Sec 11
Unit Letter: J
Field:
County: Lea
State: NM
Area: Hobbs

Well Info:

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Proposed Wellbore Diagram

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KB:
GL: 3346'

TOL @ 2277'

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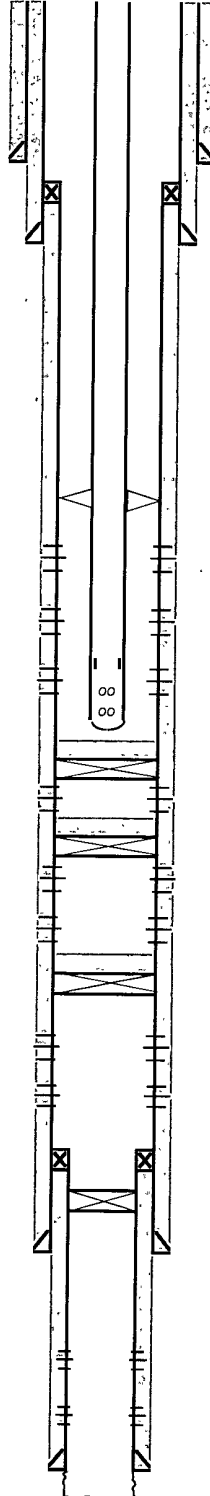
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TOC @ Surface

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Size: 9-5/8" 36#
Set @: 2383'
With: 1290 sks
Hole Size: 11"
TOC: Surface

Perfs

Perfs to be picked from CNL

Perfs

5375-5793' Blinebry
5421-5437' Blinebry

Perfs

6020-6100' Tubb

Liner

Size: 7" Liner
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EOL 6370'
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Size: 5" Liner
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Perfs:

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6451-6456' Open Hole

Tbg Detail - 8/22/1998				
Quantity	Name of Component	Length	Top Depth	Bottom Depth
164	J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901 Drift	5191.18	0	5191.18
3	J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901 Drift	89.51	5191.18	5280.69
1	Tubing Anchor/Catcher 2.375"	2.9	5280.69	5283.59
13	J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901 Drift	391.56	5283.59	5675.15
1	Blast Joint 2.375 OD	30	5675.15	5705.15
1	Seat Nipple/Shoe - (2.375") Unknown Type	1.1	5705.15	5706.25