

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 ResourcesForm C-
May 27, 2Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Of

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

¹ Operator Name and Address CHEVRON U.S.A. INC 15 SMITH ROAD MIDLAND, TEXAS 79705		² OGRID Number 4323 ✓
		³ API Number 30 - 025-26212 ✓
³ Property Code 2607	⁵ Property Name EAVES	
		⁶ Well No 7 ✓
⁹ Proposed Pool 1 PENROSE SKELLY GRAYBURG ✓		¹⁰ Proposed Pool 2

⁷ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	10	22-S	37-E		2310	NORTH	500	EAST	LEA

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

Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3387'
¹⁶ Multiple NO	¹⁷ Proposed Depth 7435'	¹⁸ Formation GRAYBURG	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit Liner. Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls		Drilling Method		
Closed-Loop System <input checked="" type="checkbox"/>		Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		

²¹ 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 U.S.A. INC INTENDS TO RECOMPLETE THE SUBJECT WELL FROM THE WANTZABO FIELD & POOL TO THE PENROSE SKELLY GRAYBURG RESERVOIR

THE CURRENT & PROPOSED WELLBORE DIAGRAMS & THE INTENDED PROCEDURE IS ATTACHED FOR YOUR APPROVAL.

Permit Expires 2 years From Approval
Date Unless Drilling is Underway

Plugback

FEB - 4 2008

HOBBS OCD

²³ 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

Printed name DENISE PINKERTON

Title REGULATORY SPECIALIST

E-mail Address: leakejd@chevron.com

Date 01-30-2008

Phone 432-687-7375

OIL CONSERVATION DIVISION

Approved by.

Title

Approval Date FEB 05 2008 Expiration Date

Conditions of Approval Attached ☐

Eaves # 7

Wantz

T22S, R37E, Section 10

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 1/22/2008. 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 LD 2-3/8" tbg.
4. PU and GIH with 5- 5/8" MT bit, 4000' of new 2 7/8" Class "A" production tbg, and 2 7/8" WS as needed to 5405'. Circulate well clean from 5405' using 8.6 PPG cut brine water, if possible. Foam air if necessary. POH with tbg string and bit. LD bit.
5. PU and GIH with 3-7/8" MT bit, 4000' of new 2 7/8" Class "A" production tbg, and 2 7/8" WS as needed to TOF @ 6534'. Circulate well clean from 6534' using 8.6 PPG cut brine water, if possible. Foam air if necessary. POH with tbg string and bit. LD bit.
6. MI & RU WL. GIH w/ CIBP to 6525'. Set 4-1/2" CIBP at 6525'. Pressure test casing/liner top and CIBP to 500 psi. If CIBP does not test isolate leak. POH. LD setting tool.
7. GIH and conduct GR/Compensated Neutron/CCL log from 5500' up to 2200'. POH. **Note:** Fax log to Adam English (687-7558) for correlation and picking perfs. GIH and conduct GR/CBL/CCL from 5500' up to 100' above top of cement. Run log with 500 psi on casing. POH. 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.
8. 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:

Top Perf	Bottom Perf	Net Feet	Total Holes
3569	3571	2	4
3574	3579	5	10
3588	3590	2	4
3604	3606	2	4
3615	3617	2	4
3627	3630	3	6
3633	3635	2	4
3643	3653	10	20
3661	3666	5	10
3675	3685	10	20
3704	3711	7	14
3721	3723	2	4
3729	3731	2	4
3740	3742	2	4
3746	3750	4	8
3764	3768	4	8
3771	3773	2	4
3779	3783	4	8
3787	3789	2	4
3795	3799	4	8
3803	3805	2	4
3808	3812	4	8
3815	3818	3	6
3828	3834	6	12
3841	3843	2	4
3855	3859	4	8
3864	3868	4	8
3871	3874	3	6
3880	3884	4	8
3887	3890	3	6
Total		111	222

9. POH. GIH and dump bail 35' of cement on top of CIBP at 6525'. POH RD & release WL.
Note: Use Dresser Atlas Compensated Densilog/Neutron log Dated 4-16-1979.
10. RIH w/ 6-5/8" PPI packer w/ SCV and 12' element spacing. Test PPI packer in blank pipe.
Mark Settings.
11. MI & RU DS Services. Acidize perfs 3569-3627' with 4,000 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:

Interval	Acid Volume	Max Rate	PPI Setting
3569'-3579'	200	1/2 BPM	3568-3580
3588'-3590'	200	1/2 BPM	3580-3592
3604'-3606'	200	1/2 BPM	3600-3612
3615'-3617'	200	1/2 BPM	3608-3620
3627'-3635'	200	1/2 BPM	3626-3638
3643'-3653'	200	1/2 BPM	3642-3654
3661'-3666'	200	1/2 BPM	3656-3668
3675'-3685'	200	1/2 BPM	3674-3686
3704'-3711'	200	1/2 BPM	3701-3713
3721'-3731'	200	1/2 BPM	3720-3732
3740'-3750'	200	1/2 BPM	3739-3751
3764'-3773'	200	1/2 BPM	3763-3775
3779'-3789'	200	1/2 BPM	3778-3790
3795'-3805'	200	1/2 BPM	3794-3806
3808'-3818'	200	1/2 BPM	3807-3819
3828'-3834'	200	1/2 BPM	3826-3838
3841'-3843'	200	1/2 BPM	3838-3850
3855'-3859'	200	1/2 BPM	3850-3862
3864'-3874'	200	1/2 BPM	3863-3875
3880'-3890'	200	1/2 BPM	3879-3891
Total	4000		

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 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

12. Release PPI & PU to approximately 3675'. Set pkr @ 3675'. 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.**

13. Open well. Release PPI pkr. POH w/ tbg and PPI pkr. LD PPI tool.

14. PU and GIH w/ 6-5/8" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 117 jts of 3-1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3469'. 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.

15. 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 **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 3600' (1 bbl short) with 1,315 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.**

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

17. 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.
18. PU & GIH with 6- 5/8" pkr on 2 7/8" tbg string to 3469'. Set pkr at 3469'. Open well. GIH and swab well until there is no sand inflow
19. Release pkr. POH 2-7/8" tubing and pkr.
20. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS.
21. 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

Eaves # 7

Location:

2310' FNL & 500' FEL T-22S R-37E
 Unit Letter: H
 Field: Wantz
 County: Lea
 State: NM

Sec - 10

Well Info:

Spud Date: 3/20/1979
 API: 30-025-26212
 Cost Center: UCLC60100
 WBS#: EQ5829
 Chevno: Fee
 Lease: Fee

Current Wellbore Diagram

Elevations:

DF: 3398'
 KB: 3387'
 GL: 3387'

Surface Casing

Size: 8-5/8", 24#, K-55
 Set @: 1154'
 With: 500 sks
 Hole Size: 12-1/4"
 TOC @ Surface
 By: Circulation

Intermediate Casing

Size: 6-5/8", 24#, K-55, 7", 26#, K-55, 7" 23# J-55
 Set @: 5853'
 With: 650 sks
 Hole Size: 7-7/8"
 TOC: 884'
 calculation

X O Collar 6-5/8" to 7"

Tbg Detail

Quantity	Description	Length
210	2-3/8", 4 7 #, J-55 tbg	6512 37
	on/off tool w/ 1 81 R nipple	1 64
	2-3/8" x 4-1/2" surlok pkr	3 5
	3-1/2" cut-lip shoe	8 21
	2-3/8", 4 7 #, J-55 tbg-cut jt	15
	3-3/4" overshot	1 1
	1 81 R nipple	1 64
	2-3/8" x 4-1/2" surlok pkr	3 5
		6546.96

TOL @ 5405'

Top of Fish @ 6534'
 (bottom packer w/cut jt of tbg)

CIBP @ 7010' w/ 15' cmt

Updated: 21-Jan-08
 By: lgek
 PBTD: 6995'
 TD: 7435'

Perfs:

		Status
6614-16'	Wantz-Abo	Open-2 JHPF
6648-50'	Wantz-Abo	Open-2 JHPF
6684-86'	Wantz-Abo	Open-2 JHPF
6716-18'	Wantz-Abo	Open-2 JHPF
6733-36'	Wantz-Abo	Open-2 JHPF
6764-66'	Wantz-Abo	Open-2 JHPF
6774-76'	Wantz-Abo	Open-2 JHPF
6796-98'	Wantz-Abo	Open-2 JHPF
6848-51'	Wantz-Abo	Open-2 JHPF
6866-86'	Wantz-Abo	Open-2 JHPF
6885-87'	Wantz-Abo	Open-2 JHPF
6900-02'	Wantz-Abo	Open-2 JHPF
6938-40'	Wantz-Abo	Open-2 JHPF

Perfs:

		Status
7070-72'	Granite Wash	Open Below CIBP- 2 JHPF
7031-33'	Granite Wash	Open Below CIBP- 2 JHPF
7084-86'	Granite Wash	Open Below CIBP- 2 JHPF
7102-04'	Granite Wash	Open Below CIBP- 2 JHPF

Production Liner

Size: 4-1/2", 11 6 #, K-55
 Set @: 5405-7435'
 With: 300 sks
 Hole Size: 5-7/8"
 TOC: 5405'

Eaves # 7

Location:

2310' FNL & 500' FEL T-22S R-37E

Unit Letter: H

Field: Penrose Skelly

County: Lea

State: NM

Well Info:

Spud Date: 3/20/1979

API: 30-025-26212

Cost Center: UCLC60100

WBS#:

Chevno: EQ5829

Lease: Fee

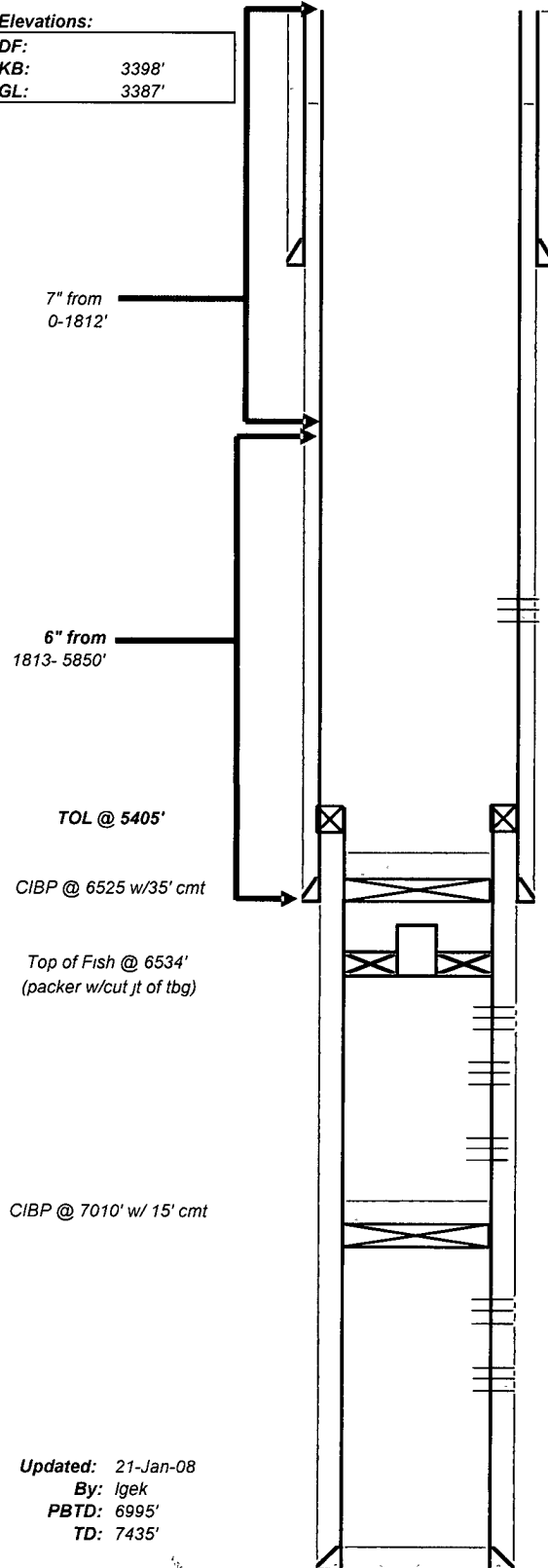
Proposed Wellbore Diagram

Elevations:

DF: 3398'

KB: 3398'

GL: 3387'



Surface Casing

Size: 8-5/8", 24#, K-55

Set @: 1154'

With: 500 sks

Hole Size: 12-1/4"

TOC @ Surface

By: Circulation

Intermediate Casing

Size: 6-5/8", 24#, K-55,

7", 26#, K-55,

7" 23# J-55

Set @: 5853'

With: 650 sks

Hole Size: 7-7/8"

TOC: 884'

calculation

Perfs:

3630-3790' Gryaburg

Perfs:

6614-16' Wantz-Abo

6648-50' Wantz-Abo

6684-86' Wantz-Abo

6716-18' Wantz-Abo

6733-36' Wantz-Abo

6764-66' Wantz-Abo

6774-76' Wantz-Abo

6796-98' Wantz-Abo

6848-51' Wantz-Abo

6866-86' Wantz-Abo

6885-87' Wantz-Abo

6900-02' Wantz-Abo

6938-40' Wantz-Abo

Perfs:

7070-72' Granite Wash

7031-33' Granite Wash

7084-86' Granite Wash

7102-04' Granite Wash

Production Liner

Size: 4-1/2", 11 6#, K-55

Set @: 5405-7435'

With: 300 sks

Hole Size: 5-7/8"

TOC: 5405'

Updated: 21-Jan-08

By: lgek

PBTD: 6995'

TD: 7435'