

OCD-HOBBS

Form 3160-5
(June 1990)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well: ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator
CHEVRON USA INC

3. Address and Telephone No. 15 SMITH RD, MIDLAND, TX 79705 432-687-737

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Unit Letter B : 660 Feet From The NORTH Line and 2310 Feet From The
EAST Line Section 35 Township 24S Range 37E

5. Lease Designation and Serial No.

NM-14218

6. If Indian, Alottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and Number

C.C. FRISTOE 'B' FEDERAL NCT-2

14

9. API Well No.

30-025-23466

10. Field and Pool, Exploatory Area
LANGLE MATTIX 7 RVR GRAYBURG

11. County or Parish, State

LEA, NM

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ OTHER: ADD GRAYBURG PERFS
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

CHEVRON U.S.A. INC. INTENDS TO ADD GRAYBURG PERFS IN THE SUBJECT WELL & FRAC STIMULATE.

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



14. I hereby certify that the foregoing is true and correct

SIGNATURE Denise Pinkerton TITLE Regulatory Specialist

DATE 6/6/2007

TYPE OR PRINT NAME Denise Pinkerton

(This space for Federal or State office use)

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

C. C. Fristoe B Federal (NCT-2) # 14
Langlie Mattix Field
30-025-23466
T24S, R37E, Section 35
Job: Add Grayburg Perfs And Frac Stimulate

06/01/07

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 6/1/2007. Verify what is in the hole with the well file in the 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 Darryl Ruthardt 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 and pump. ND WH. Install BOP's and test as required. POH and LD 2-3/8" tubing.
4. PU and GIH w/ 3-7/8" MT bit and new 2-3/8" Class "A" production tubing to 4770'. Circulate well clean from 4770' using 8.6 PPG cut brine water, if possible. POH w/ tbg and bit. LD bit.
5. MI & RU WL. GIH w/ 4-1/2" CIBP to 4750'. Set CIBP at 4750'. POH. LD setting tool.
6. GIH and conduct GR/CBL/CCL log from 4750' up to 2200'. POH. Inspect logs for good cement bond from approximately 4000' up to 3100'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding.
7. GIH with 2-3/8" tubing and pkr to 4200'. Set pkr @ 4200' and test CIBP to 500 psi. Release pkr. Reset PKR @ +/-3400'. Test surface-3400' to 500 psi. Release pkr and POH. LD pkr.
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
3412	3417	5	20
3422	3427	5	20
3442	3450	8	32
3456	3464	8	32
3475	3482	7	28
3541	3549	8	32

3557	3564	7	28
3571	3577	6	24
3584	3592	8	32
3597	3605	8	32
3618	3626	8	32
3633	3641	8	32
3653	3661	8	32
3664	3670	6	24
3674	3681	7	28
3686	3690	4	16
3694	3701	7	28
3704	3708	4	16
3732	3740	8	32
3747	3755	8	32
3763	3767	4	16

9. POH. GIH and dump bail 35' of cement on top of CIBP at 4750'. POH RD & release WL. **Note:**
Use Schlumberger Compensated Neutron Gamma Ray / CCL Log dated 10/30/2001 for depth correction.
10. RIH w/ 4-1/2" PPI packer w/ SCV and 10' element spacing. Test PPI packer in blank pipe. Mark Settings.
11. MI & RU Halliburton Services. Acidize perfs 3412'-3767' with 4,800 gals anti-sludge 15% HCl acid
* at a maximum rate **as shown below** and a maximum surface pressure of **4000 psi**. Spot acid to bottom of tbg at beginning of each stage. Pump job as follows:

Perfs	Acid Volume	Max Rate	PPI Setting
3412-3417	200	1/2 bpm	3409-3419
3422-3427	200	1/2 bpm	3419-3429
3442-3450	200	1/2 bpm	3441-3451
3456-3464	200	1/2 bpm	3455-3465
3475-3482	200	1/2 bpm	3474-3484
3494-3530 (existing perfs)	200	1/2 bpm	3493-3503
	200	1/2 bpm	3507-3517
	200	1/2 bpm	3521-3531
3541-3549	200	1/2 bpm	3540-3550
3557-3564	200	1/2 bpm	3556-3566
3571-3577	200	1/2 bpm	3569-3579
3584-3592	200	1/2 bpm	3583-3593
3597-3605	200	1/2 bpm	3596-3606
3618-3626	200	1/2 bpm	3617-3627
3633-3641	200	1/2 bpm	3632-3642
3653-3661	200	1/2 bpm	3652-3662
3664-3670	200	1/2 bpm	3662-3672
3674-3681	200	1/2 bpm	3672-3682
3686-3690	200	1/2 bpm	3682-3692
3694-3701	200	1/2 bpm	3692-3702

3704-3708	200	1/2 bpm	3703-3713
3732-3740	200	1/2 bpm	3731-3741
3747-3755	200	1/2 bpm	3746-3756
3763-3767	200	1/2 bpm	3760-3770

Displace acid with 8.6 PPG cut brine water -- do not overdisplace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release Halliburton Services.

Note: Pickle tubing if WSM deems necessary. Also, if communication occurs during treatment of any interval, monitor casing pressure and attempt to complete stage w/o exceeding 1000 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals.

* Acid system is to contain:	1 GPT A264	Corrosion Inhibitor
	8 GPT L63	Iron Control Agent
	2 PPT A179	Iron Control Aid
	20 GPT U66	Mutual Solvent
	2 GPT W53	Non-Emulsifier

12. Release PPI pkr and PUH to approximately 3325'. Swab back all intervals together. 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. **Note: Selectively swab perfs as directed by Engineering if excessive water is produced.**

13. Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.

14. PU and GIH w/ 4-1/2" 10K treating pkr & On-Off tool w/ 2.25" "F" profile on 80 jts. of 2-7/8" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 2500'. Install 10K frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication. **Have frac tanks filled with 2% KCl water.**

15. MI & RU Halliburton Services, and Tracer-Tech Services (Mike Mathis (866) 595-3115) (Pls schedule Rita Dickey (432-553-2526) for fluid quality control prior to frac job). Frac well down 2-7/8" tubing at 40 BPM with 88,000 gals of Delta Frac 140 R (25), 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 1,000 gals 2% KCL water spacer

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

Pump 1,000 gals 2% KCL water spacer

Pump 14,000 gals Delta Frac 140 R (25) pad containing 20 PPT WLC-7 Fluid Loss Additive

Pump 14,000 gals Delta Frac 140 R (25) containing 0.5 PPG 16/30 mesh Jordan Sand & 20 PPT WLC-7

Pump 12,000 gals Delta Frac 140 R (25) containing ramped 1 - 2 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals Delta Frac 140 R (25) containing ramped 2 - 3 PPG 16/30 mesh Jordan Sand

Pump 14,000 gals Delta Frac 140 R (25) containing ramped 3 - 4 PPG 16/30 mesh Jordan Sand

Pump 16,000 gals Delta Frac 140 R (25) containing ramped 4 - 5 PPG 16/30 mesh Jordan Sand
Pump 6,000 gals Delta Frac 140 R (25) containing 5 PPG **resin-coated** 16/30 mesh CR1630 proppant.

Flush to 3325' with 1,042 gals Water Frac G - R (25). **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release Halliburton Services and Tracer-Tech Services.
Leave well SI overnight.

16. Open well. Bleed pressure from well, if any. Release pkr. POH LD 2-7/8" work string, on-off tool, and pkr.
17. PU and GIH with 3-7/8" MT bit on 2-3/8" tubing to 4715'. If fill is tagged above 4715', cleanout to 4715' using 8.6 PPG cut brine water and air unit if necessary. POH with 2-3/8" tubing and bit. LD bit.
18. PU & GIH with 4-1/2" pkr on 2-3/8" work string to 3300'. Set pkr at 3300'. 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 4000' up to 2800'. POH. RD & release electric line unit.
19. Release pkr. POH LD 2-3/8" work string and pkr.
20. 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, 14 jts 2 3/8" EUE 8R J-55 tbg, TAC, and 108 jts 2 3/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3363', with EOT at 3865' and SN at 3829'.
21. Remove BOP's and install WH. GIH with rods, weight bars, and pump per ALS (John Bermea , telephone (432) 967-3420) recommended design. RD & release pulling unit.
22. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Engineer - Richard Jenkins

432-687-7120 Office

432-631-3281 Cell

rjdg@chevron.com

Well: **C.C. Fristoe Fed B (NCT-2) #14**

Reservoir: **Langlie Mattix - Grayburg**

Location:
 660' FNL & 2310' FEL
 Section: 35
 Township: 24S
 Range: 37E
 County: Lea, NM.

Elevations:
 DF: 3183'
 KB: 12'

Current

Well ID Info:
 Refno: FG6446
 API No: 30-025-23466
 L5/L6:
 Spud Date: 3/28/1970
 Compl. Date: 4/24/1970

Surface Csg: 8 5/8" 20#
Set: @ 974' w/ 375 sks
Hole Size: 11"
Circ: Yes
TOC By: Circulation

TOC: Surface

TAC @ 3468'

Tubing Detail: As of 11/5/2001		
#Jts	Size	Footage
	KB Correction	12
110	2-3/8 J55	3453.58
	TAC	3.15
3	2-3/8 J55	94.15
1	2-3/8 IPC Jt	31.05
1	2-3/8 SN	1.1
1	2-3/8 2-7/8 X-Over	0.6
1	2-7/8 MJ	31.01
1	2-7/8 Pin Collar	1.6
Bottom of Tbg >>		3628.24

CIBP: @ 5000' w/ 35' cmt

Perfs 3494'-3530'
Status Grayburg - Open
 2 SPF w/ 120° phasing

Cement @ 4804'

Casing Leak 4804'-4830' - Spotted cmt over perfs

Perfs 5066'-5262'
 5294'-5681'
Status Blinebry - Below CIBP
 Blinebry - Below CIBP

Prod Csg: 4 1/2" 10.5#
Set: @ 5800' w/ 520 sks
Hole Size: 7 7/8"
Circ: Yes
TOC By: Circulation

TOC: Surface

PBTD: 4804' (cement)
TD: 5800'

Updated: 5/18/2007

By: rjdg

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TAC @ 3468'

Tubing Detail: Proposed			
#Jts	Size	Footage	
	KB Correction	12	
108 Jts. 2 3/8" EUE 8R J-55 Tbg		3348	3360.00
TAC		3.15	3363.15
14 Jts. 2 3/8" EUE 8R J-55 Tbg		434	3797.15
1 Jt. 2 3/8" EUE 8R J-55 IPC Tbg		31	3828.15
SN		1.1	3829.25
2 3/8" x 4' Perf Tbg Sub		4	3833.25
1 Jt. 2 3/8" EUE 8R J-55 Tbg		31	3864.25
Bull Plug		0.5	3864.75
Bottom Of String >>			3864.75

CIBP: @ 4750' w/ 35' cmt

CIBP: @ 5000' w/ 35' cmt

PBTD: 4715'
TD: 5800'

Updated: 5/18/2007

By: rjdg

Perfs 3412'-3767'
Status Grayburg - Open

Cement @ 4804'

Casing Leak 4804'-4830' - Spotted cmt over perfs

Perfs 5066'-5262'
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