

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 RE	EPORTS ON WELLS	S
-----------------------	-----------------	---

5 Lease Designation and Serial No. NM-14218

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

6 If Indian, Alottee or Tribe Name

Use "APPLICATION FO	R PERMIT" for such proposals	
SUBMIT	IN TRIPLICATE	7 If Unit or CA, Agreement Designation
1. Type of Well: OIL GAS WELL WELL	OTHER	8 Well Name and Number C.C. FRISTOE 'B' FEDERAL NCT-2
2 Name of Operator CHEVRON USA INC		12
3 Address and Telephone No 15 SMITH RD, MIDL	AND, TX 79705 432-687-737	9 API Well No 30-025-22032
Location of Well (Footage, Sec , T , R , M , or Survey D     Unit Letter J : 2310 Feet From The	escription)  SOUTH Line and 2310 Feet From The	10 Field and Pool, Exploaratory Area LANGLIE MATTIX 7 RVR QN GRAYBURG
EAST Line Section 26 T	ownship 24S Range 37E	11. County or Parish, State  LEA , NM
12 Check Appropriate I	Box(s) To Indicate Nature of Notice, Re	eport, or Other Data
TYPE OF SUBMISSION	T	YPE OF ACTION
✓ Notice of Intent  Subsequent Report  Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Attering Casing  ✓ OTHER FRAC STIMULAT	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  E  Dispose Water  (Note Report results of multiple completion on Well Completion or Recompletion Report and Log Form)

CHEVRON U.S.A.INC. INTENDS TO FRAC STIMULATE THE GRAYBURG FORMATION.

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



SIGNATURE SIGNATURE THE Regulatory Specialist	APPROVER89/2007
TYPE OR PRINT NAME Denise Pinkerton	71110123
(This space for Federal or State office use)	AUG 2 2 2007
APPROVED TITLE	DATE WIN LINGS 19
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 treoresentations as to any matter within its jurisdiction	United States any false Wetting & Westquien Higher Andror

67×

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,)\*.

C. C. Fristoe B Federal (NCT-2) # 12 Langlie Mattix Field T24S, R37E, Section 26 Job: <u>Frac Stimulate Grayburg Formation</u>

## 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 6/12/2007. Verify what is in the hole with the well file in the Dollarhide 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 with rods and pump. Remove WH. Install BOP's and test as required. POH with production tbg string.
- 4. PU 3 7/8" MT bit and GIH on 2 3/8" work string to approximately 4200'. Reverse circulate well clean from 4200', if necessary. POH with 3 7/8" bit and tbg string. LD bit.
- 5. PU and GIH with 4 ½' RBP and pkr to approximately 3325'. Set RBP at 3325'. PUH and set Pkr at 2500'. Pressure test casing from 2500 3325' to 2000 psi. Release pkr. LD and engage RBP at 3325'. Release RBP at 3325'. POH with work string, RBP, and pkr. LD RBP and packer.
- 6. PU and GIH w/ 4 ½" PPI pkr (with 12' element spacing) and SCV on 2 3/8" work string to approximately 3700'. Test tbg to 5500 psi while GIH.
- 7. MI & RU Halliburton Services. Acidize perfs 3352-3698' with 5,000 gals anti-sludge 15% Ferchek SC HCl acid (0.3%) \* at a maximum rate as shown below and a maximum surface pressure of 2500 psi. Spot acid to bottom of tbg at beginning of each stage. Pump job as follows:

Interval	Amt. Acid	Max Rate	<b>PPI Setting</b>
3694-98'	200 gals	½ BPM	3692-3704'
3686-90'	200 gals	½ BPM	3682-94'
3676-82'	200 gals	½ BPM	3672-84'
3656-66'	200 gals	½ BPM	3655-67'
3641-49'	200 gals	½ BPM	3639-51'
3620-30'	200 gals	½ BPM	3619-31'
3612-16'	200 gals	½ BPM	3607.5-19.5

3598-3607'	200 gals	½ BPM	3597-3609'
3582-92'	200 gals	½ BPM	3581-93'
3570-78'	200 gals	½ BPM	3568-80'
3546-58'	200 gals	½ BPM	3546-58'
3522-32'	200 gals 🦯 🐪	½ BPM	3521-33'
3511-14'	200 gals	½ BPM	3508-20'
3496-3505'	200 gals	½ BPM	3495-3507'
3473-83'	200 gals	½ BPM	3472-84'
3462-66'	200 gals	½ BPM	3458-70'
3448-56'	200 gals	½ BPM	3447-59'
3434-40'	200 gals	½ BPM	3432-44'
3417-25'	200 gals	½ BPM	3416-28'
3408-12'	200 gals.	½ BPM	3402-14'
3392-98'	200 gals	½ BPM	3390-3402'
3384-88'	200 gals	½ BPM	3380-92'
3374-80'	200 gals	½ BPM	3370-82'
3360-66'	200 gals	1/2 BPM	3358-70'
3352-56'	200 gals	½ BPM	3346-58'

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 in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only ¼ gal HAI-OS and ½ gal Lo-Surf-300M. 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 is to contain: 1 GPT HAI-OS Corrosion Inhibitor

2 GPT LoSurf-300M Surfactant 20 GPT Musol A Mutual Solvent 15% Fercheck SC Acid (0.3%)

- 8. Release PPI pkr and LD to approximately 3725'. Set pkr at 3725'. Pressure test casing from 3725' 5065' to 2000 psi. 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. Release PPI pkr. POH with 2 3/8" work string and PPI pkr. LD PPI pkr.
- 9. PU and GIH w/ 4 ½" 10K treating pkr & On-Off tool w/ 2.25" "F" profile on approximately 81 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.
- 10. MI & RU Halliburton Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). Frac well down 2 7/8" tubing at **40 BPM** with 88,000 gals of Delta Frac 140 R (21), 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 (21) pad containing 20 PPT WLC-7 Fluid Loss Additive

Pump 14,000 gals Delta Frac 140 R (21) containing 0.5 PPG 16/30 mesh Jordan Sand & 20 PPT WLC-7

Pump 12,000 gals Delta Frac 140 R (21) containing ramped 1 - 2 PPG 16/30 mesh Jordan Sand

Pump 12,000 gals Delta Frac 140 R (21) containing ramped 2 - 3 PPG 16/30 mesh Jordan Sand

Pump 14,000 gals Delta Frac 140 R (21) containing ramped 3 - 4 PPG 16/30 mesh Jordan Sand

Pump 16,000 gals Delta Frac 140 R (21) containing ramped 4 - 5 PPG 16/30 mesh Jordan Sand

Pump 6,000 gals Delta Frac 140 R (21) containing 5 PPG resin-coated 16/30 mesh CR1630 proppant.

Flush to 3275' with 1,113 gals Water Frac G - R (21). **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.** 

- 11. Open well. Bleed pressure from well, if any. Release pkr. POH LD 2 7/8" work string, on-off tool, and pkr.
- 12. PU and GIH with 3 7/8" MT bit on 2 3/8" work string to 4200'. If fill is tagged above 4100', cleanout to 4100' using 8.6 PPG cut brine water and air unit if necessary. POH with 2 3/8" work string and bit. LD bit.
- 13. PU & GIH with 4 ½" pkr on 2 3/8" work string to 3250'. Set pkr at 3250'. 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 4100' up to 2800'. POH. RD & release electric line unit. Note: Correlate logs and run flat with Baker Atlas GR/CBL/CCL Log conducted 11/26/2003.
- 14. Release pkr. POH LD 2 3/8" work string and pkr.
- 15. PU and GIH w/ slotted mud anchor jt of 2 7/8" tbg, SN, 1 jt 2 3/8" EUE 8R J-55 IPC tbg, 14 jts 2 3/8" EUE 8R J-55 tbg, TAC, and 105 jts 2 3/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3300', with EOT at 3805' and SN at 3780'.
- 16. 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.
- 17. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH 6/29/2007

## Location:

2310' FSL & 2310' FEL Section 26 Township 24S Range 37F

County Lea State NM

Elevations: GL. 3181' KB 3194' DF 3193'

## <u>Current</u> Wellbore Diagram

Well ID Info: Chevno FG0188 API No 30-025-22032 L5/L6 UCU727600 Spud Date 2/17/1967 Compl Date 3/22/1967

Surf. Csg: 8 5/8", 17 28#, SW Set: @ 973' w/ 550 sks Hole Size: 11" Circ: Yes TOC: Surface TOC By: Circulated

Tubing Detail:			
#Jts.	Size:	Footage	
	K8 Correction	13 00	
105	Jts 2 3/8* EUE 8R J-55 Tbg	3295 55	
	TAC	3 00	
14	Jts 2 3/8* EUE 8R J-55 Tbg	438 90	
1	Jt 23/8" EUE 8R J-55 IPC Tbg	31 65	
	SN	1 10	
1	Jt 27/8" EUE 8R Slotted Mud Jt	22 20	
121	Bottom Of String >>	3805 40	

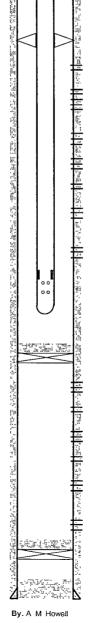


CIBP @ 5100' (35' cmt on top)

CIBP @ 5950' (35' cmt on top)

COTD: 5065' PBTD: 5065' TD: 6140'

Updated: 6/12/2007



Perfs:	Status:
3352-56'	Grayburg - Open
3360-66'	Grayburg - Open
3374-80'	Grayburg - Open
3384-88'	Grayburg - Open
3392-98'	Grayburg - Open
3408-12'	Grayburg - Open
3417-25	Grayburg - Open
3434-40	Grayburg - Open
3448-56*	Grayburg - Open
3462-66*	Grayburg - Open
3473-83'	Grayburg - Open
3496-3505'	Grayburg - Open
3511-14'	Grayburg - Open
3522-32'	Grayburg - Open
3546-58'	Grayburg - Open
3570-78'	Grayburg - Open
3582-92'	Grayburg - Open
3598-3607	Grayburg - Open
3612-16'	Grayburg - Open
3620-30*	Grayburg - Open
3641-49'	Grayburg - Open
3656-66*	Grayburg - Open
3676-82'	Grayburg - Open
3686-90'	Grayburg - Open
3694-98'	Grayburg - Open

Blinebry Perfs -	Below CIBP	
5120-54'	5355'	5602'
5160-74'	5368'	5609'
5205'	5386'	5622'
5213'	5395'	5657'
5219'	5411'	5669'
5225'	5414-18'	5681'
5239'	5424-32	5690'
5242-46'	5440'	5702'
5247	5460-72'	5722'
5256'	5486'	5738'
5265'	5501'	5756'
5276-80'	5528'	5790
5283'	5541'	5802
5302'	5559'	
5335'	5576*	

Prod. Csg: 4 1/2", 11 60#, J-55 Set: @ 6140' w/ 900 sks Hole Size: 7 7/8" Circ<sup>\*</sup> No TOC: 2270' TOC By: CBL



CIBP @ 5100' (35' cmt on top)

CIBP @ 5950' (35' cmt on top)

COTD: 5065 PBTD: 5065' TD: 6140'

Updated: 6/12/2007



Blinebry Perfs - Below CIBP 5602 5120-54 5355' 5160-74 5368 5609 5622 5213' 5395 5219 5411' 5669 5225' 5414-18 5681 5239' 5424-32' 5690 5242-46' 5440 5702 5460-72 5722' 5256' 5486' 5738 52651 5501' 5756' 5276-80' 5528 5790 5541' 52831 5802 5559' 5335' 5576

Status:

Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open Grayburg - Open

Grayburg - Open Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open Grayburg - Open

Grayburg - Open

Grayburg - Open

Grayburg - Open

3612-16'

3620-30

3641-49' 3656-66'

3676-82

3686-90'

3694-98'

Prod. Csg: 4 1/2", 11.60#, J-55 Set: @ 6140' w/ 900 sks Hole Size: 7 7/8" Circ: No TOC: 2270'
TOC By: CBL