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

5 Lease Designation and Serial No: NM-14218

6. If Indian, Alottee or Tribe Name:

7 If Unit or CA, Agreement Designation:

1 Type of Well: ☑ OIL WELL ☐ GAS WELL ☐ OTHER

8 Well Name and Number: C.C. FRISTOE 'B' NCT-2 29

2 Name of Operator: CHEVRON USA INC

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

9 API Well No: 30-025-35984

4. Location of Well (Footage, Sec , T., R , M., or Survey Description)

Unit Letter C : 660' Feet From The NORTH Line and 1980' Feet From The WEST Line Section 35 Township 24-S Range 37-E

10. Field and Pool, Exploaratory Area: LANGLIE MATTIX 7 RVRS QN 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	TYPE OF ACTION	
☑ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☑ OTHER: ADD PERFS & FRAC STIM	☐ 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 & FRAC STIMULATE.

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

SEP 2007
Received
Hobbs
OCD

APPROVED
SEP 18 2007
LES BABYAK
PETROLEUM ENGINEER

14 I hereby certify that the foregoing is true and correct

SIGNATURE Denise Pinkerton TITLE Regulatory Specialist DATE 8/29/2007

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.

GW

DeSoto/Nichols 12-93 ver 1.0

C. C. Fristoe B Federal (NCT-2) # 29
Langlie Mattix Field
T24S, R37E, Section 35
Job: Add Perfs And Frac Stimulate Grayburg Formation

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 8/27/2007. 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 4 ¾" MT bit and GIH on 2 7/8" work string to approximately 3500'. MI & RU air unit. Establish circulation at 3500' using foam. Lower down and drill out cement and CIBP at 3640' in 5 ½" casing. Lower down to 3690' and circulate well clean using foam. Lower down and drill out CIBP at 3692' in 5 ½" casing. Lower down to 3740' and circulate well clean with foam. Lower down and drill out cement and CIBP at 3740' in 5 ½" casing. Lower down to 3980' and circulate well clean with foam. Lower down and drill out cement and float collar in 5 ½" casing to a depth of 4050'. Circulate well clean from 4050'. POH with 4 ¾" bit and work string. LD bit.

5. MI & RU Baker Atlas electric line unit. Install lubricator and test to 1000 psi. GIH with 3 1/8" slick casing guns and perforate from 3476-79', 3536-39', 3544-50', 3557-69', 3576-89', 3592-96', 3602-08', 3614-20', 3625-33', 3637-47', 3690-96', and 3732-36' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Use Schlumberger Platform Express Compensated Neutron Log dated 10/18/2002 for depth correlation.**

6. PU and GIH w/ 5 ½" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 3775'. Test tbg to 5500 psi while GIH.

7. MI & RU Halliburton Services. Acidize perfs 3476-3770' 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	PPI Setting
3746-70'	200 gals	½ BPM	3745-57'
3732-36'	200 gals	½ BPM	3728-40'
3721-24'	200 gals	½ BPM	3719-31'
3710-18'	400 gals	½ BPM	3708-20'
3699-3707'	200 gals	½ BPM	3697-3709'
3690-96'	200 gals	½ BPM	3685-97'
3673-84'	400 gals	½ BPM	3672.5-84.5'
3663-68'	200 gals	½ BPM	3658-70'
3637-47'	200 gals	½ BPM	3636-48'
3625-33'	200 gals	½ BPM	3623-35'
3614-20'	200 gals	½ BPM	3610-22'
3602-08'	200 gals	½ BPM	3600-12'
3592-96'	200 gals	½ BPM	3589.5-3601.5'
3576-89'	200 gals	½ BPM	3578-90'
3557-69'	200 gals	½ BPM	3557-69'
3544-50'	200 gals	½ BPM	3540-52'
3536-39'	200 gals	½ BPM	3531-43'
3521-23'	200 gals	½ BPM	3519-31'
3507-11'	200 gals	½ BPM	3506-18'
3495-3504'	400 gals	½ BPM	3494-06'
3483-88'	200 gals	½ BPM	3482-94'
3476-79'	200 gals	½ BPM	3469-81'

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 350 psi csg pressure. If cannot, then move PPI to next setting depth and combine treatment volumes of the intervals. Do not exceed 350 psi casing pressure due to cmt sqzd perfs at 1050' and 2130'.**

* Acid system is to contain:	15% Ferchek SC HCl acid (0.3%)	Acid
	1 GPT HAI-OS	Corrosion Inhibitor
	2 GPT LoSurf-300M	Surfactant
	20 GPT Musol A	Mutual Solvent

8. Release PPI pkr and PUH to approximately 3425'. 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 7/8" work string and PPI pkr. LD PPI pkr.

9. PU and GIH w/ 5 ½" 10K treating pkr & On-Off tool w/ 2.25" "F" profile on approximately 109 jts. of 3 ½" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3375'. Install 10K frac head. Pressure annulus to 350 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 3 ½" 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 3430' with 1,288 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 3 ½" work string, on-off tool, and pkr.

12. PU and GIH with 4 ¾" MT bit on 2 7/8" work string to 4050'. If fill is tagged above 4050', cleanout to 4050' using 8.6 PPG cut brine water and air unit if necessary. POH with 2 7/8" work string and bit. LD bit.

13. PU & GIH with 5 ½" pkr on 2 7/8" 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 4050' up to 2800'. POH. RD & release electric line unit. **Note: Use Schlumberger Platform Express Compensated Neutron Log dated 10/18/2002 for depth correlation.**

14. Release pkr. POH LD 2 7/8" work string and pkr.

15. PU and GIH w/ BP mud anchor jt of 2 7/8" tbg, 2 7/8" x 4' perforated sub, SN, 1 jt 2 7/8" EUE 8R J-55 IPC tbg, 12 jts 2 7/8" EUE 8R J-55 tbg, TAC, and 110 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Set TAC at 3425', with EOT at 3875' and SN at 3840'.

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
8/28/2007

Well: **C. C. Fristoe "B" (NCT-2) #29** Field: **North Justis** Reservoir: **Grayburg/San Andres**

CURRENT

Wellbore Diagram

Location:
660' FNL 1980' FWL
Section: 35
Township: 24S
Range. 37E
County: Lea State: NM

Well ID Info:
Chevno. HI0122
API No: 30-025-35984
L5/L6:
Spud Date: 10/6/02
Rig Released: 10/20/02
Compl. Date:

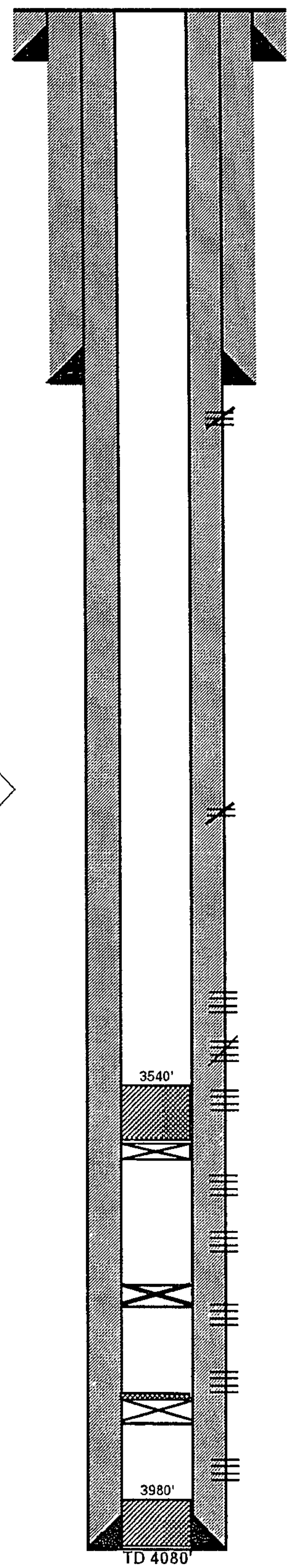
Elevations:
GL: 3189'
KB: 3205'
DF:

Surface Csg: 16"
Set: @ 40'
Hole Size:
Circ: yes TOC: surface
TOC By: circulation

Intermediate Csg: 8 5/8", J-55 8rd
Set: @ 956' w/590 sx cmt
Hole Size:
Circ: yes TOC: surface
TOC By: circulation (103 sx cmt)
Shoe set @ 956', 19 jts of casing

Subsequent Workovers/Reconditionings/Repairs:

11/25/2002	Acdz 3746-3770' w/2000 gals 20% HCL.
12/20/2002	Acdz 3663-3724' w/2000 gals 15% HCL



Sqzd perfs @ 1050'
w/600 sks cmt (cmt to surface)

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that could be found in the Midland well files and computer databases as of the update date below. Verify what is in the hole with the well file in the Dollarhide Field Office. Discuss w/ WEO Engineer, H2O Rep, CS, ALS, & FS prior to starting any work regarding any hazards or unknown issues pertaining to this well.

Sqzd perfs @ 2130'
w/200 sks cmt

Perfs	Status
3483-3530'	Grayburg - Open
3536-39'	Grayburg - Cmt Sqzd
3544-50'	Grayburg - Cmt Sqzd
3557-69'	Grayburg - Cmt Sqzd
3576-89'	Grayburg - Cmt Sqzd

CIBP set @ 3640'
(100' cmt on top)

Perfs	Status
3663-68'	Grayburg - Below CIBP
3673-76'	Grayburg - Below CIBP
3678-84'	Grayburg - Below CIBP

CIBP set @ 3692'
(No cmt on top)

Perfs	Status
3699-3707'	Grayburg - Below CIBP
3710-12'	Grayburg - Below CIBP
3715-18'	Grayburg - Below CIBP
3721-24'	Grayburg - Below CIBP

CIBP set @ 3740'
(20' cmt on top)

Perfs	Status
3746-3770'	Grayburg - Below CIBP

Prod. Csg: 5 1/2", 15.5#, J-55 LTC
Set: @ 4080' w/ 850 sx cmt
Hole Size: 7-7/8"
Circ: No TOC: unknown
TOC By:
Shoe set @ 4080', FC @ 3984'

By: Guy R Wink
May 5, 2003

Well: **C. C. Fristoe "B" (NCT-2) #29** Field: **Langlie Mattix** Reservoir: **Grayburg**

PROPOSED

Wellbore Diagram

Location:
660' FNL 1980' FWL
Section: 35
Township: 24S
Range: 37E
County: Lea State: NM

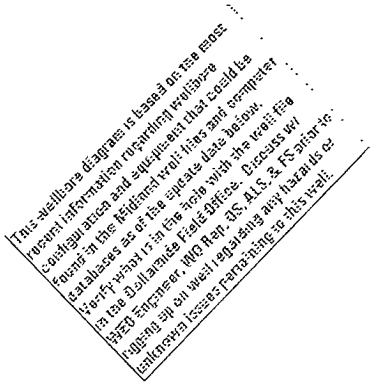
Well ID Info:
Chevno: HI0122
API No. 30-025-35984
L5/L6
Spud Date: 10/6/02
Rig Released: 10/20/02
Compl. Date:

Surface Csg: 16"
Set: @ 40'
Hole Size:
Circ: yes TOC: surface
TOC By: circulation
Intermediate Csg: 8 5/8", J-55 8rd
Set: @ 956' w/590 sx cmt
Hole Size:
Circ: yes TOC: surface
TOC By: circulation (103 sx cmt)
Shoe set @ 956', 19 jts of casing

Elevations:
GL: 3189'
KB: 3205'
DF:

Subsequent Workovers/Reconditionings/Repairs:

11/25/2002	Acdz 3746-3770' w/2000 gals 20% HCL.
12/20/2002	Acdz 3663-3724' w/2000 gals 15% HCL.



Sqzd perfs @ 1050'
w/600 sks cmt (cmt to surface)

Sqzd perfs @ 2130'
w/200 sks cmt

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	11 00
110	Jts 2 7/8" EUE 8R J-55 Tbg	3410 00
	TAC	3 15
12	Jts 2 7/8" EUE 8R J-55 Tbg	372 00
1	Jt 2 7/8" EUE 8R J-55 IPC Tbg	31 00
	SN	1 10
	2 7/8" x 4' Perf Tbg Sub	4 00
1	Jt 2 7/8" EUE 8R J-55 Tbg	31 00
	Bull Plug	0 50
124	Bottom Of String >>	3863 75

Perfs	Status
3476-79'	Grayburg - Open
3483-3530'	Grayburg - Open
3536-39'	Grayburg - Open
3544-50'	Grayburg - Open
3557-69'	Grayburg - Open
3576-89'	Grayburg - Open
3592-96'	Grayburg - Open
3602-08'	Grayburg - Open
3614-20'	Grayburg - Open
3625-33'	Grayburg - Open
3637-47'	Grayburg - Open
3663-68'	Grayburg - Open
3673-76'	Grayburg - Open
3678-84'	Grayburg - Open
3690-96'	Grayburg - Open
3699-3707'	Grayburg - Open
3710-12'	Grayburg - Open
3715-18'	Grayburg - Open
3721-24'	Grayburg - Open
3732-36'	Grayburg - Open
3746-3770'	Grayburg - Open

Prod. Csg: 5 1/2", 15.5#, J-55 LTC
Set: @ 4080' w/ 850 sx cmt
Hole Size: 7-7/8"
Circ: No TOC: unknown
TOC By:
Shoe set @ 4080', FC @ 3984'

4050'
TD 4080'

By: A. M. Howell
August 27, 2007