

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-06669
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator CHEVRON MIDCONTINENT L.P.		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TX 79705		7. Lease Name or Unit Agreement Name L.G. WARLICK
4. Well Location Unit Letter A 990 feet from the NORTH line and 330 feet from the EAST line Section 19 Township 21S Range 37E NMPM LEA County		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3511' GL		9. OGRID Number 241333
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat PENROSE SKELLY GRAYBURG
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____		
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK PLUG AND ABANDON ☐
TEMPORARILY ABANDON CHANGE PLANS ☐
PULL OR ALTER CASING MULTIPLE COMPL ☐

OTHER: INTENT TO ADD PERFS IN GRAYBURG

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON MIDCONTINENT, L.P. INTENDS TO ADD PERFS IN THE GRAYBURG & FRAC STIMULATE.

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

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE *Denise Pinkerton*

TITLE REGULATORY SPECIALIST DATE 8-30-2006

Type or print name DENISE PINKERTON E-mail address: leakejd@chevron.com Telephone No. 432-687-7375

For State Use Only

APPROVED BY: *Larry W. Wink*
Conditions of Approval (if any):

FIELD REPRESENTATIVE II/STAFF MANAGER

DATE SEP 05 2006

L. G. Warlick # 1

Penrose Skelly Field

T21S, R37E, Section 19

Job: Add Perfs In Grayburg Formation, Acidize, And Frac

Procedure:

1. 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.
2. 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. Remove WH. Install BOP's and test to 1000 psi. POH LD 2 1/16" tbg string.
3. PU and GIH with 4 3/4" MT bit and 2 7/8" work string to top of fish in 5 1/2" csg at 5760'. If fill is tagged above 5700', MI & RU air unit and clean out to 5760' using foam. Circulate well clean from 5760' using foam. POH with work string and bit. LD bit.
4. PU and GIH with 5 1/2" sqz packer and RBP on 2 7/8" work string to 5500'. Set RBP at 5500'. PUH and set pkr at 3950'. Pressure test RBP and casing fr/ 3950-5500' to 2000 psi. Pour 3 sacks 20/40 mesh sand down tbg and let fall on top of RBP. Release pkr. POH with 2 7/8" work string and pkr. LD pkr.
5. MI & RU Baker Atlas electric line unit. Install lubricator and test to 2000 psi. GIH and conduct GR/Compensated Neutron/CCL log from 5480' up to 2200'. POH. **Note: Fax log to Mike Howell (687-7871) for correlation and picking perfs.** GIH and conduct GR/CBL/CCL from 5480' up to 100' above top of cement. Run log with with 0 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. GIH with 3 1/8" slick casing guns and perforate from 3658-63', 3670-76', 3687-97', 3714-20', 3724-30', 3736-46', 3749-56', 3765-70', 3778-88', 3808-18', 3824-32', 3837-44', 3850-60', 3868-78', 3892-3902', 3906-10', 3912-20', 3936-44', and 3957-65' with 4 JSPF at 120 degree phasing, using 23 gram premium charges. POH. RD & release electric line unit. **Note: Use Lane Wells GR/Neutron Log dated 9/14/1950 for depth correlation. Also, exact perf depths will change after obtaining new GR/Compensated Neutron Log.**
6. PU and GIH w/ 5 1/2" PPI pkr (with 12' element spacing) and SCV on 2 7/8" work string to approximately 3650'. Test tbg to 5500 psi while GIH.
7. MI & RU DS Services. Acidize perfs 3658-3965' with 3,800 gals anti-sludge 15% HCl acid * at a maximum rate **as shown below** and a maximum surface pressure of **3500 psi**. Spot acid.

across perfs at beginning of each stage and let soak to lower breakdown pressure and prevent communication. Pump job as follows:

Interval	Amt. Acid	Max Rate	PPI Setting
3957-65'	200 gals	½ BPM	3956-68'
3936-44'	200 gals	½ BPM	3935-47'
3912-20'	200 gals	½ BPM	3911-23'
3906-10'	200 gals	½ BPM	3899-11'
3892-3902'	200 gals	½ BPM	3891-3903'
3868-78'	200 gals	½ BPM	3867-79'
3850-60'	200 gals	½ BPM	3849-61'
3837-44'	200 gals	½ BPM	3835-47'
3824-32'	200 gals	½ BPM	3822-34'
3808-18'	200 gals	½ BPM	3807-19'
3778-88'	200 gals	½ BPM	3777-89'
3765-70'	200 gals	½ BPM	3760-72'
3749-56'	200 gals	½ BPM	3748-60'
3736-46'	200 gals	½ BPM	3735-47'
3724-30'	200 gals	½ BPM	3721-33'
3714-20'	200 gals	½ BPM	3710-22'
3687-97'	200 gals	½ BPM	3686-98'
3670-76'	200 gals	½ BPM	3668-80'
3658-63'	200 gals	½ BPM	3655-67'

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 DS services. **Note:** Pickle tubing in 1 run of 500 gals acid, prior to acidizing perfs. Pickle acid is to contain only 1/2 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 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

8. Release PPI pkr and PUH to approximately 3625'. 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.**
9. Open well. Release PPI pkr. POH with tbg and PPI packer. LD PPI tool.

10. PU and GIH w/ 5 ½" Lok-Set pkr & On-Off tool w/ 2.25" "F" profile and 117 jts. of 3 ½" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 3550'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to observe for communication.
11. MI & RU DS Services and Tracer-Tech Services (Mike Mathis (866) 595-3115). 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**. Tag frac with 2 radioactive isotopes (1 in regular sand stages, and 1 in resin-coated proppant stage). 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 3550' with 1,297 gals WF125. **Do not overflush.** Shut well in. Record ISIP, 5, 10, and 15 minute SI tbg pressures. SWI. RD & Release DS Services and Tracer-Tech Services. **Leave well SI overnight.**
12. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
13. PU and GIH with 4 ¾" MT bit on 2 7/8" work string to approximately 4200'. Reverse circulate well clean from 4200' using 8.6 PPG cut brine water, if necessary. POH with 2 7/8" work string and bit. LD bit.
14. PU & GIH with 5 ½" pkr on 2 7/8" work string to 3550'. Set pkr at 3550'. 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 2000 psi. GIH and conduct after-frac PRISM GR/Temp/CCL log from 4200' up to 3300'. POH. RD & release electric line unit. **Note: Correlate logs and run flat with Baker Atlas GR/CBL/CCL Log conducted in Step # 5.**
15. Release pkr. POH with 2 7/8" work string and pkr. LD work string and packer.
16. PU and GIH w/ Centrlift sub pump assembly, drain sub, 2 7/8" x 6' tbg sub, SN, and 121 jts 2 7/8" EUE 8R J-55 tbg, testing to 5000 psi. Suspend tbg with bottom of sub pump assembly at approximately 3808'.
17. Remove BOP's and install WH. RD & release workover unit.

18. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

AMH

8/23/2006

Received
8/23/06
11:00 AM
AMH

Well: L. G. Warlick # 1

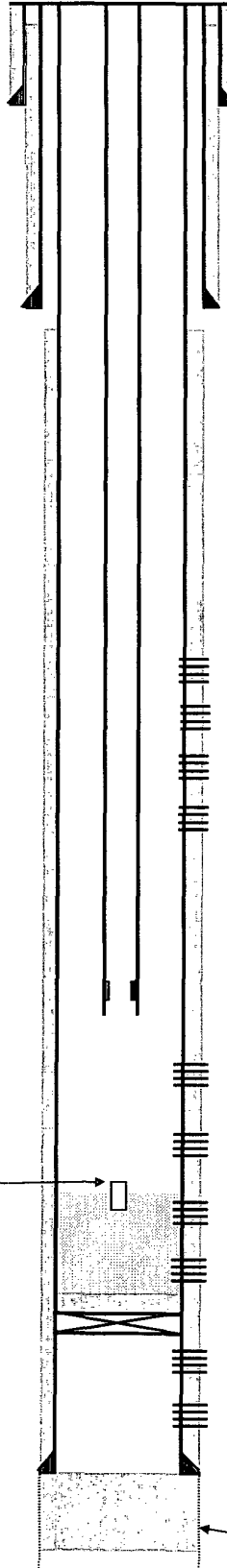
Field: Penrose Skelly &
Blinebry O&G (DHC)

Reservoir: Grayburg &
Blinebry

Location:
990' FNL & 330' FEL
Section: 19
Township: 21S
Range: 37E Unit: A
County: Lea State: NM

Elevations:
GL: 3511'
KB: 3525'
DF: 3524'

**Current
Wellbore Diagram**



Well ID Info:
Chevno: FB4692
API No: 30-025-06669
L5/L6: U46AE00
Spud Date: 8/8/50
Compl. Date: 12/21/54

Surf. Csg: 13 3/8\" 50#, (Grade unknown)
Set: @ 315' w/250 sx cmt
Hole Size: 17\"
Circ: Yes TOC: Surface
TOC By: Circulated

Interm. Csg: 8 5/8\" 36#, (Grade unknown)
Set: @ 2821' w/ 850 sx cmt
Hole Size: 11\"
Circ: No TOC: 163'
TOC By: Calculated

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	14.00
177	Jts. 2 1/16\" J-55 Cl. 'B'	5475.00
	SN	1.10
177	Bottom Of Mtr >>	5490.10

Perfs: Status
3736' Grayburg - Open
3742' Grayburg - Open
3751' Grayburg - Open
3811' Grayburg - Open
3817' Grayburg - Open
3851' Grayburg - Open
3859' Grayburg - Open

5585-5603' Blinebry - Open
5630-45' Blinebry - Open
5655-80' Blinebry - Open
5690-5737' Blinebry - Open

5850' Blinebry - Below Fish
5873' Blinebry - Below Fish
5898' Blinebry - Below Fish
5918' Blinebry - Below Fish
5933' Blinebry - Below Fish

6275-6325' Tubb - Below CIBP
6363-80' Tubb - Below CIBP

Prod. Csg: 5 1/2\", 15.5# & 17#, (Grade unknown)
Set: @ 6535' w/ 700 sx cmt
Hole Size: 7 7/8\"
Circ: No TOC: 2800'
TOC By: CBL

OH Cmt Plug fr/ 6541-50'

Top Of Fish @ 5760'

CIBP @ 6100'
(Unknown cmt on top)

COTD: 5760'
PBTD: 3960'
TD: 6691'

Updated: 8/23/06

By: A. M. Howell

Well: **L. G. Warlick # 1**

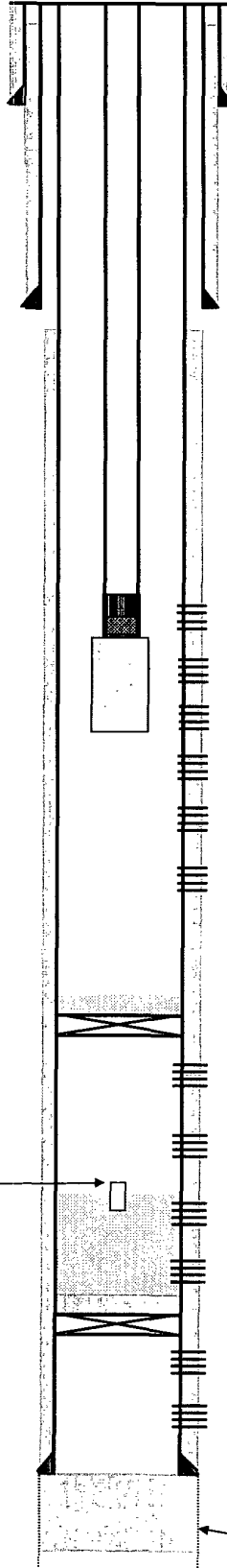
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**Proposed
Wellbore Diagram**



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Interm. Csg: 8 5/8" 36#, (Grade unknown)
Set: @ 2821' w/ 850 sx cmt
Hole Size: 11"
Circ: No TOC: 163'
TOC By: Calculated

Tubing Detail:

#Jts:	Size:	Footage
	KB Correction	14.00
121	Jts. 2 7/8" J-55 Cl. 'B'	3751.00
	2 7/8" x 6" Tbg Sub	6
	Drain Valve	0.55
	2 7/8" x 2 3/8" X-Over	0.60
	Centriflitt Sub Pump	35.41
121	Bottom Of Mtr >>	3807.56

Perfs:	Status
3658-63'	Grayburg - Open
3670-76'	Grayburg - Open
3687-97'	Grayburg - Open
3714-20'	Grayburg - Open
3724-30'	Grayburg - Open
3736-46'	Grayburg - Open
3749-56'	Grayburg - Open
3765-70'	Grayburg - Open
3778-88'	Grayburg - Open
3808-18'	Grayburg - Open
3824-32'	Grayburg - Open
3837-44'	Grayburg - Open
3850-60'	Grayburg - Open
3868-78'	Grayburg - Open
3892-3902'	Grayburg - Open
3906-10'	Grayburg - Open
3912-20'	Grayburg - Open
3936-44'	Grayburg - Open
3957-65'	Grayburg - Open

RBP @ 5500'
(20' sand on top)

Top Of Fish @ 5760'

CIBP @ 6100'
(Unknown cmt on top)

COTD: 5760'
PBSD: 3960'
TD: 6691'

5585-5603'	Blinebry - Open
5630-45'	Blinebry - Open
5655-80'	Blinebry - Open
5690-5737'	Blinebry - Open

5850'	Blinebry - Below Fish
5873'	Blinebry - Below Fish
5898'	Blinebry - Below Fish
5918'	Blinebry - Below Fish
5933'	Blinebry - Below Fish

6275-6325'	Tubb - Below CIBP
6363-80'	Tubb - Below CIBP

Prod. Csg: 5 1/2", 15.5# & 17#, (Grade unknown)
Set: @ 6535' w/ 700 sx cmt
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OH Cmt Plug fr/ 6541-50'

Updated: 8/23/06

By: A. M. Howell