

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 Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

JUN 19 2008

HOBBS OCD

Form C-
May 27, 2

Submit to appropriate District Of

☐ AMENDED REPC

**APPLICATION 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 - 025-34191 ✓
³ Property Code 18927	⁵ Property Name MONUMENT "12" STATE	⁶ Well No 14 ✓
⁹ Proposed Pool 1 MONUMENT ABO North ✓		¹⁰ Proposed Pool 2

7 Surface Location

UL or lot no C	Section 12	Township 19-S	Range 36-E	Lot Idn	Feet from the 1200	North/South line NORTH	Feet from the 1350	East/West line EAST	County LEA
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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
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Additional Well Information

¹¹ Work Type Code P ✓	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code S ✓	¹⁵ Ground Level Elevation 3741' GL
¹⁶ Multiple NO	¹⁷ Proposed Depth 7518'	¹⁸ Formation ABO	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 Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>		
Closed-Loop System				

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 SQUEEZE THE DRINKARD ZONE & COMPLETE IN THE ABO RESERVOIR

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

A PIT WILL NOT BE USED FOR THIS RECOMPLETION

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway
Plugback**

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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Signature <i>Denise Pinkerton</i>		Approved by <i>Chris Williams</i>	
Printed name DENISE PINKERTON		Title OCD DISTRICT SUPERVISOR/GENERAL MANAGER	
Title REGULATORY SPECIALIST		Approval Date	
E-mail Address <i>leakejd@chevron.com</i>		Expiration Date	
Date 06-12-2008	Phone 432-687-7375	Conditions of Approval Attached <input type="checkbox"/>	

JUL 03 2008

Monument 12 State # 14
Monument North
T19S, R36E, Section 13
Job: Squeeze Drinkard and Complete Abo

4/4/2008

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 4/4/2008. 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. POH and LD hang rods and pump. Remove WH. Install BOP's and test as required. POH and stand back 2-7/8" production tbg.
4. PU and GIH with 4-3/4" bit on 2-7/8" 6.50# L-80 workstring to 7100'. Circulate well clean from 7100' using 8.6 PPG cut brine water. POH with WS and bit. LD bit.
5. GIH w/ CICR on 2-7/8" tubing to 6850'. Establish injection rate into Drinkard perms. **Note: Notify engineering of injection rate for squeeze design.** Sting into retainer and squeeze Drinkard perms 6900'-7005'. Sting out of retainer and WOC. POH 2-7/8" WS.
6. PU and GIH with 4-3/4" MT on WS to CICR @ 6850'. Drill CIBP and cement to CIBP @ 7100'. Pressure annulus to 500 psi to test squeeze perms. Notify engineering if squeeze perms do not test
7. Drill out CIBP @ 7100' and CO to TD of 7518', using air unit if necessary. POH with WS and bit. LD bit.
8. PU and GIH with 5-/2" treating packer on 2-7/8" L-80 workstring to 7100'. Run 3 jts of 2-7/8" L-80 workstring as tailpipe below packer. Set pkr @ 7100', testing to 8500 psi. Pressure annulus to 350 psi and maintain during acid job. (80% of 2-7/8" L-80 workstring 8,456 psi)
9. MI & RU DS Services. Acidize open-hole interval 7152'-7518' with 3,000 gals anti-sludge 20% HCl acid* and 3,000 gals 20% Super X emulsified acid** at a maximum rate of **8 BPM** and a maximum surface pressure of **8,500 psi**. Start pumping acid into formation at 1/2 **BPM** and increase rate up to the maximum of **8 BPM** as the treating pressure drops off. Pump 500 gal. 10

PPG gelled bring and 1000 lbs. rock salt between stages. Pump job in three stages as follows (SLB design is attached):

Stage 1

Pump 500 gals 20% HCl acid @ 8 BPM
 Pump 1000 gals SuperX acid @ 8 BPM
 Pump 500 gals 20% HCl acid @ 8 BPM
 Pump 500 gals WF130 containing 1000 lbs GRS at 6 BPM

Stage 2

Pump 500 gals 20% HCl acid @ 8 BPM
 Pump 1000 gals SuperX acid @ 8 BPM
 Pump 500 gals 20% HCl acid @ 8 BPM
 Pump 500 gals WF130 containing 1000 lbs GRS at 6 BPM

Stage 3

Pump 500 gals 20% HCl acid @ 8 BPM
 Pump 1000 gals SuperX acid @ 8 BPM
 Pump 500 gals 20% HCl acid @ 8 BPM

Displace acid with cut brine water -- do not overdisplace. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Shut in over night.**

* 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

** Super X acid system is to contain:	30% Diesel	Diesel Fuel
	70% Acid	20% HCl Acid
	1 GPT A264	Corrosion Inhibitor
	3 GPT L63	Iron Control
	1 GPT A179	Iron Control Aid
	5 GPT W53	Emulsifier

- Open well and flow/swab back spent treatment fluids. Recover 100% of spent acid and load if possible. Report oil cut, recovered fluid volumes, pressures, and/or swabbing fluid levels. **Note:** **Test reactivity of recovered acid load while swabbing. If acid is not spent, leave well SI additional time as required.**
- Open well. Flow or bleed pressure from well until able to kill well using 10 PPG brine water. POH w/ 2-7/8" workstring and pkr. LD pkr.
- PU and RIH 4-3/4" bit on 2-7/8" workstring to TD of 7518'. POH and LD L-80 workstring and bit.

13. RIH w/ 2-7/8" production tubing. NDBOP and NUWH. RIH w/ guided rods and pump as per ALS recommendation.
14. Begin daily chemical treatment*,**. Turn well over to production. Report producing rates and fluid levels.

Engineer – Richard Jenkins
432-687-7120 Office
432-631-3281 Cell

Monument: Drinkard North (gas)**Location:**

1,200' FNL & 1,350' FWL, Sec12, T-19S, R-36E

Unit Letter: C

Field: Monument Drinkard North (gas)

County: Lea

State: NM

Area: Hobbs

Monument "12" State #14**Well Info:**

Comp. Date: 1/9/1998

Spud Date: 11/25/1997

API: 30-025-34191

RefNO: BP3676

Lease No: State

**Current
Wellbore Diagram****Elevations**

KB: 3754

GL: 3741

DF: 3753

This wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that was found in the Midland Office well file, computer databases as of the update below. Verify what is in the hole with well file in the Eunice Field Office. If w/ WEO Engineer, w/ OGS, ALS, & to rigging up on well regarding any unknown issues pertaining to the well.

Surface Casing

Set @: 400'

With: 300 sx cmt.

Hole Size: 14-3/4"

Circ: Yes

TOC @: Surface

Intermediate Casing

Set @: 2840'

With: 900 sx cmt

Hole Size: 11"

TOC: Surface

TOC @ 3400' →

Perfs**Status**

6900'-10'

Drinkard - Open

6913'-23'

Drinkard - Open

6926'-36'

Drinkard - Open

6939'-49'

Drinkard - Open

6952'-62'

Drinkard - Open

6997'-7005'

Drinkard - Open

Production Casing

Size: 5-1/2", 15.5/17#, K-55

Set @: 7153'

With: 500 sx cmt

Hole Size: 7-7/8"

TOC: 3400'

CIBP @ 7100' PDQX Weatherford →

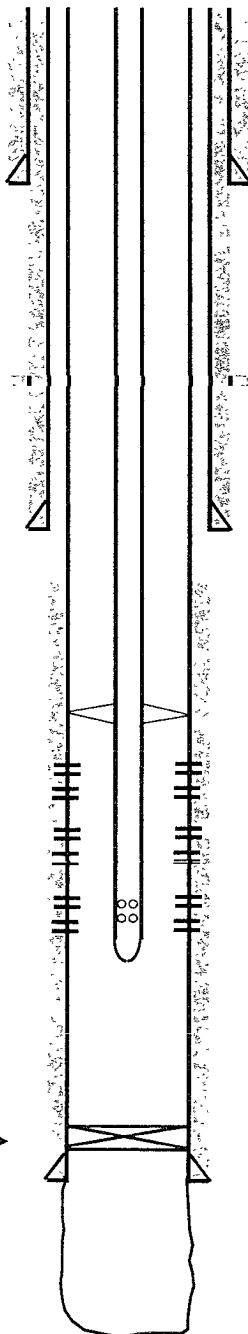
7152' - 7518' Open hole

PBSD: 7100'

TD: 7518'

Updated: 18-Oct-07

By: rjdg



Monument: Abo**Location:**

1,200' FNL & 1,350' FWL, Sec12, T-19S, R-36E

Unit Letter: C**Field:** Monument**County:** Lea**State:** NM**Area:** Hobbs**Monument "12" State #14****Well Info:**

Comp. Date:	1/9/1998
Spud Date:	11/25/1997
API:	30-025-34191
RefNO:	BP3676
Lease No:	State

**Proposed
Wellbore Diagram****Elevations**

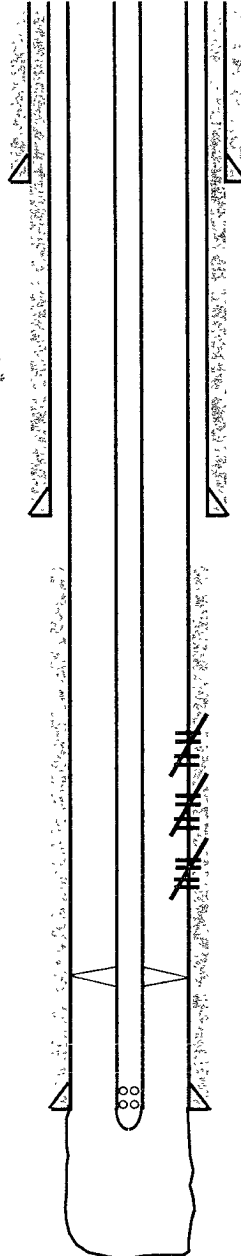
KB:	3754
GL:	3741
DF:	3753

This wellbore diagram is based on the most recent information and equipment data found in the Midland Office well file, computer databases as of the update below. Verify what is in the hole with well file in the Eunice Field Office. I w/ WEO Engineer, WEO Rep, OS, ALS, & to rigging up on well regarding any h unknown issues pertaining to the well.

TOC @ 3400'



PBTD: 7518'
TD: 7518'

**Surface Casing**

Size: 11-3/4", 42#, H-40
Set @: 400'
With: 300 sx cmt
Hole Size: 14-3/4"
Circ: Yes
TOC @: Surface

Intermediate Casing

Size: 8-5/8", 24#, K-55 8rd
Set @: 2840'
With: 900 sx. cmt
Hole Size: 11"
TOC: Surface

Perfs**Status**

6900'-10'	Drnkard - Squeezed
6913'-23'	Drnkard - Squeezed
6926'-36'	Drnkard - Squeezed
6939'-49'	Drnkard - Squeezed
6952'-62'	Drnkard - Squeezed
6997'-7005'	Drnkard - Squeezed

Production Casing

Size: 5-1/2", 15 5/17#, K-55
Set @: 7153'
With: 500 sx cmt
Hole Size: 7-7/8"
TOC: 3400'

7152' - 7518' Abo Open hole

Updated: 4-Apr-08
By: rjdg

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 Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-102
 Revised October 12, 2005
 Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34191		² Pool Code 46978 46980		³ Pool Name MONUMENT ABO North	
⁴ Property Code 18927		⁵ Property Name MONUMENT "12" STATE			⁶ Well Number 14
⁷ OGRID No. 4323		⁸ Operator Name CHEVRON U.S.A. INC.			⁹ Elevation 3741'

¹⁰ Surface Location									
UL or lot no. C	Section 12	Township 19-S	Range 36-E	Lot Idn	Feet from the 1200'	North/South line NORTH	Feet from the 1350'	East/West line WEST	County LEA

¹¹ 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
¹² Dedicated Acres 40									
¹³ Joint or Infill									
¹⁴ Consolidation Code									
¹⁵ Order No. SURFACE LOCATION									

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division 06-12-2008 DENISE PINKERTON Printed Name	
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief	
	Date of Survey Signature and Seal of Professional Surveyor	
	Certificate Number	