

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

Form C-101
June 16, 2001

Oil Conservation Division

Submit to appropriate District Office

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

**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 - 025-25257
³ Property Code 2237	⁵ Property Name VIVIAN	
⁹ Proposed Pool 1 BRUNSEN DRINKARD - ABO South		⁶ Well No 10
¹⁰ Proposed Pool 2		

⁷ Surface Location									
UL or lot no B	Section 30	Township 22-S	Range 38-E	Lot Idn	Feet from the 800	North/South line NORTH	Feet from the 2250	East/West line EAST	County LEA

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

Additional Well Information

¹¹ Work Type Code P	¹² Well Type Code O	¹³ Cable/Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3362' GL
¹⁶ Multiple NO	¹⁷ Proposed Depth 7588'	¹⁸ Formation DRINKARD	¹⁹ Contractor	²⁰ Spud Date

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 RECOMPLETE THE SUBJECT WELL TO THE DRINKARD RESERVOIR.
THE INTENDED PROCEDURE AND CURRENT AND PROPOSED WELLBORE DIAGRAM ARE ATTACHED.

**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.		OIL CONSERVATION DIVISION	
Signature Denise Pinkerton		Approved by 	
Printed name. DENISE PINKERTON		Title PETROLEUM ENGINEER	
Title REGULATORY SPECIALIST		Approval Date AUG 21 2008	Expiration Date
E-mail Address leakejd@chevron.com			
Date 08-04-2008	Phone 432-687-7375	Conditions of Approval Attached <input type="checkbox"/>	

Vivian #10
Brunson; Drinkard-Abo
T22S, R38E, Section 30, Unit B
Job: Squeeze Paddock & Complete Drinkard

WBS #: UWDPS-R8179- EXP & CAP

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 6/27/2008. 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 & LD rods. Remove WH. Install BOP's and test as required. POH and LD 2-3/8" tbg.
4. PU and GIH with 6-1/8" MT bit on 2-7/8" WS to PBTD 6290'. POOH WS LD bit.
5. Set packer @ 5025' and establish injection rate. Send Injection rate to Schlumberger and Engineering for cement volume calculation/recommendation. POOH with pkr.
6. RIH w/cement retainer on 2-7/8" WS set @ 5025'. Prep for cement squeeze.
7. MIRU DS. Squeeze Paddock perforations (5125-5149' 4 JHPF) as rate and pressure information dictates & DS recommendation. RD DS. Reverse out after stinging out of CR. TOH w/2-7/8" WS & WOC.
Note: Cement volume will be calculated from step #5.
8. RIH with 6-1/8" MT bit. MIRU air unit. Drill out cement retainer and continue drilling through squeezed perms. Test backside to 350# once squeeze perms are drilled out. Drill out CIBP @ 6290' and circulate hole clean to 6519'. POOH with 2-7/8" WS and LD bit.
9. MI&RU WL. GIH and conduct GR/Compensated Neutron/CCL log from 6512' up to 3000'. POH. **Note: Fax log to Adam English (687-7558) for correlation and perf verification.** GIH and conduct GR/CBL/CCL from 6512' up to 100' above top of cement. Run log with 500 psi on casing. POOH. Inspect logs for good cement bond from approximately 6512' up to 6312'.

If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding.

10. GIH w/3-1/8" slick casing guns and perforate the following intervals with 4 JSPF at 120 degree phasing using 23 gram premium charges:

Top	Bottom	Net	total holes
6509	6512	3	12
6484	6488	4	16
6478	6482	4	16
6463	6473	10	40
6448	6459	11	44
6436	6442	6	24
6421	6431	10	40
6414	6416	2	8
6380	6384	4	16
6363	6369	6	24
6347	6358	11	44
6329	6339	10	40
6312	6319	7	28
Total:		88	352

Note: Tie into Welex Compensated Density/Neutron Log Dated 5/2/1976

11. RD & RL WL unit. RIH w/ treating pkr w/2.25" F profile nipple on 2-7/8" WS, testing tbg to 7000 psi.
12. MIRU DS acid truck. Attempt to pump into perms (6312'-6512'). Pump **4,400 gals** 20% NEFE anti-sludge HCl acid at a rate of **3-5 BPM** and a maximum surface pressure of **6,000 psi** dropping a total of 530, 1.3 SG balls evenly distributed. Displace with 8.6# BW. Record ISIP 5, 10, & 15 minute.

* Acid system to contain:

2 GPT A264	Corrosion Inhibitor
8 GPT L63	Iron Control Agents
3 PPT A179	Iron Control Aid
20 GPT U66	Mutual Solvent
2 GPT W53	Non-Emulsifier

13. RD DS acid truck. RU swab and swab well recording rates, volumes, pressures, and fluid levels. Report to Engineering.

14. Release pkr and POOH w/pkr. LD pkr.

15. PU and GIH w/ 7" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 197 jts of 3-1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 6210'. Install frac head. Pressure annulus to 500 psi to test csg and pkr. Leave pressure on csg during frac job to aid in observing communication.
16. MIRU DS & Rita Dickey (432-553-2526). Frac Drinkard perms down 3-1/2" tbg at **30 BPM** with 30,000 gals YF125FT and 60,000# 20/40 SuperLC Resin Coated Sand w/a max pressure of **8,000 psi**. Pump job as follows:
 - Pump 1,000 gals WF125 @ 20 BPM
 - Pump 11,000 gals YF125ST Pad @ 30 BPM
 - Pump 2,500 gals YF125ST containing 1 PPG 20/40 SuperLC @ 30 BPM
 - Pump 3,000 gals YF125ST containing 2 PPG 20/40 SuperLC @ 30 BPM
 - Pump 3,500 gals YF125ST containing 3 PPG 20/40 SuperLC @ 30 BPM
 - Pump 4,000 gals YF125ST containing 4 PPG 20/40 SuperLC @ 30 BPM
 - Pump 5,000 gals YF125ST containing 5 PPG 20/40 SuperLC @ 30 BPM

Flush to 6286' with 1418 gals WF125. **Do not overflush**. Shut well in. Record ISIP, 5, 10, & 15 minute SI tbg pressures. RD & release DS Services and Tracer Tech. Leave well SI overnight.
17. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 1/2" work string, on-off tool, and pkr.
18. PU and GIH with 6- 1/8" MT bit on 2 7/8" Class "A" tubing to approximately 6520'. If fill is tagged above 6520', cleanout to 6520' using 8.6# PPG cut brine water using air unit if necessary. POOH with 2 7/8" tbg and bit. LD bit.
19. PU & GIH with 7" pkr on 2 7/8" tbg string to 6220'. Set pkr at 6220'. Open well. GIH and swab well until there is no sand inflow
20. Release pkr. POOH 2-7/8" tbg and pkr.
21. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS.
22. RD Key PU & RU. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

Engineer – Lonnie Grohman
432-687-7420 Office
432-238-9233 Cell

19190.
see
bill

Vivian #10

Location:

T22S, R38E, Sec 30, 800' FNL & 2250' FEL
Unit Letter: B
Field: Paddock
County: Lea
State: NM
Area: Hobbs

Well Info:

Spud Date: 3/31/1976
API: 30-025-25257
Cost Center: UCU862300
WBS#:
RefNO: EO9346
Lease: FEE

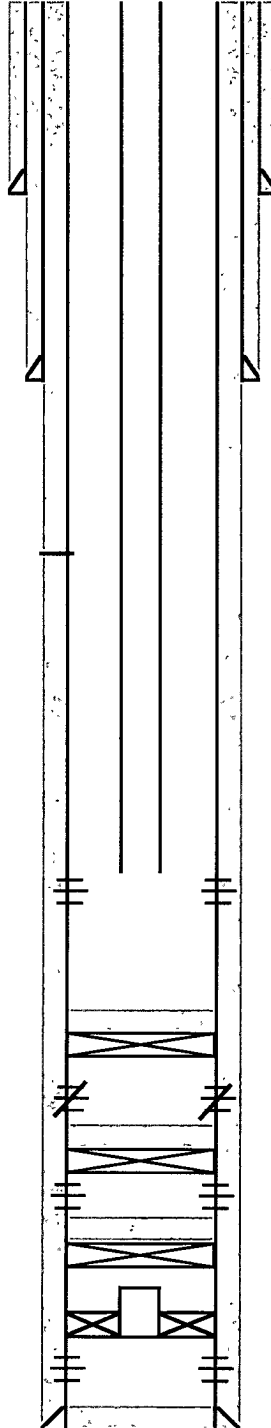
Current Wellbore Diagram

Elevations:

DF:
KB:
GL: 3362'

This wellbore diagram 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 the update date below. Verify what is in the hole with the well file in the Eunice Field Office. Discrepancies w/ WEO Engineer, WO Rep, OS, ALS, & to rigging up on well regarding unknown issues.

DV Tool @ 2808'



Surface Casing

Size: 9-5/8" 36# K55
Set @: 1194'
With: 350 sks
Hole Size: 12-1/4"
Circ: Yes
TOC @ Surface

Perfs: 5125-5149' Zone: Paddock Status: Open

Perfs: 6310-6476' Zone: Drinkard Status: Sqzd

Perfs: 6569-7245' Zone: Abo Status: Open-below CIBP

Perfs: 7329-7398' Zone: Granite Wash Status: Open-below CIBP

Production Casing

Size: 7" 23# N80 & K55
Set @: 7588'
With: 2175 sks
Hole Size: 8-3/4"
TOC: Surface

CIBP @ 6290' w/30' cmt

CIBP @ 6549' w/30' cmt

CIBP @ 7310' w/24' cmt

Baker Model D pkr w/sn & 2-3/8" sub @ 7340'

Updated: 27-Jun-08
By: LGEK
PBTD: 6260'
TD: 7588'

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State of New Mexico
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 30-025-25257	² Pool Code 19190 7900	³ Pool Name BRINKARD - <i>Also</i> <i>South</i>
⁴ Property Code 2737	⁵ Property Name VIVIAN	⁶ Well Number 10
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3362' GL

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	30	22-S	38-E		800	NORTH	2250	EAST	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.						

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.

<div>¹⁶</div>	<p>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</p> <p><i>Denise Pinkerton</i> 08-04-2008 Signature Date</p> <p>DENISE PINKERTON REGULATORY SPECIALIST Printed Name</p>
	<p>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</p>
	<p>Date of Survey Signature and Seal of Professional Surveyor</p>
	<p>Certificate Number</p>