

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

## DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

**State of New Mexico**  
**Energy, Minerals and Natural Resources Department**

**OIL CONSERVATION DIVISION**

P.O. Box 2088  
 Santa Fe, New Mexico 87504-2088

Form C-101

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

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☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address CHEVRON USA INC 15 SMITH RD, MIDLAND, TX 79705		<sup>2</sup> OGRID Number 4323 ✓
		<sup>3</sup> API Number 30-025-25651 ✓
<sup>4</sup> Property Code 2717	<sup>5</sup> Property Name H.P. SAUNDERS ✓	<sup>6</sup> Well No. 2 ✓

<sup>7</sup> Surface Location

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
J	7	22-S	38-E		1650	SOUTH	2310	EAST	LEA

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
<sup>9</sup> Proposed Pool 1 TUBB OIL AND GAS					<sup>10</sup> Proposed Pool 2				

<sup>11</sup> Work Type Code P	<sup>12</sup> WellType Code O	<sup>13</sup> Rotary or C.T. ROTARY	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3342' GL
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 8000'	<sup>18</sup> Formation TUBB	<sup>19</sup> Contractor	<sup>20</sup> Spud Date

<sup>21</sup> Proposed Casing and Cement Program

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NO CHANGE					

<sup>22</sup> 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 FROM THE DRINK AND ABO POOL TO THE TUBB RESERVOIR.

A PIT WILL NOT BE USED FOR THIS PLUGBACK. A STEEL FRAC TANK WILL BE UTILIZED.

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

**Permit Expires 1 Year From Approval**

**Date Unless Drilling Underway**

**Plugback**

<sup>23</sup> I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature *Denise Pinkerton*  
 Printed Name Denise Pinkerton

Title Regulatory Specialist

Date 3/8/2007

Telephone 432-687-7375

**OIL CONSERVATION DIVISION**

Approved By: *Chris Williams*

Title:

OC DISTRICT SUPERVISOR/GENERAL MANAGER

Approval Date:

**MAR 15 2007**

Expiration Date:

Conditions of Approval:

Attached ☐

H.P. Saunders #2  
Brunson South  
T22S, R38E, Section 7  
Job: PB to Tubb Formation, Acidize, And Frac

03/02/2007

**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 3/02/2007. 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 and pump. Remove WH. Install BOP's and test as required. POH and LD 2-3/8" production tbg.
4. PU and GIH with 4 3/4" MT bit, new 2-7/8" Class A production tubing, and WS as needed to 6920'. Reverse circulate well clean from 6920' using 8.6 PPG cut brine water, if possible. POH with tbg string and bit. LD bit.
5. MI & RU WL. GIH w/ CIBP to 6900'. Set 5 1/2" CIBP at 6900'. Pressure test casing and CIBP to 500 psi. POH. LD setting tool.
6. GIH and conduct GR/CBL/CCL log from 6900' up to 5800'. Run log with 500 psi on casing. POH. Inspect logs for good cement bond from approximately 6800' up to 6000'. If bond does not appear to be good across proposed completion interval, discuss with Engineering before proceeding.
7. GIH with 3 1/8" slick casing guns and perforate the following intervals with 2 JSPF at 120 degree phasing using 23 gram premium charges:

Top Perf	Bottom Perf	Net Feet	Total Holes
6364	6366	2	4
6371	6376	5	10
6406	6416	10	20
6430	6440	10	20
6510	6520	10	20

6557	6567	10	20
	Total	47	94

8. POH. GIH and dump bail 35' of cement on top of CIBP at 6900'. POH RD & release WL.  
**Note: Use Perforating Depth Control log dated 12/12/1977 for depth correction.**
9. RIH w/ 5-1/2" PPI packer w/ SCV and 12' element spacing. Test PPI packer in blank pipe. Mark Settings.
10. MI & RU DS Services. Acidize perfs 6364'-6567' with 1200 gal of 15% NEFE HCl acid\* at a maximum rate of  $1\frac{1}{2}$  BPM and a maximum surface pressure of 4000 psi as follows:

Perfs	Acid Volume	Max Rate	PPI Setting
6364-6366	200 gals	1/2 bpm	6356-6368
6371-6376	200 gals	1/2 bpm	6369-6381
6406-6416	200 gals	1/2 bpm	6405-6417
6430-6440	200 gals	1/2 bpm	6429-6441
6510-6520	200 gals	1/2 bpm	6509-6521
6557-6567	200 gals	1/2 bpm	6556-6568

Displace acid with 8.6 PPG cut brine water -- do not over displace. Use a SCV to control displacement fluid. Record ISIP, 5 & 10 minute SIP's. RD and release DS services. **Note: 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 to contain:

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

11. Release PPI & PU above top perf. Fish SCV and flush annulus. Set pkr. Swab back all intervals together. Recover 100% of treatment and load volumes before shutting well in for night, if possible. Report recovered volumes, pressures, and/or swabbing fluid levels. **Note: Selectively swab perfs as directed by engineering if excessive water is produced.**
12. Open well. Release PPI pkr. POH w/ tbg and PPI pkr. LD PPI tool.
13. PU and GIH w/ 5-1/2" Arrow-Set 10k pkr & On-Off tool w/ 2.25" "F" profile and 199 jts of 3-1/2" EUE 8R L-80 work string, testing to 8500 psi. Set pkr at approximately 6250'. 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.

14. MI & RU DS Services. Frac Tubb perfs down 3 ½" tubing at **30 BPM** w/ 72,000 gals of 50 Quality WF150 Foam, and 144,000 lbs. 20/40 mesh Jordan. PropNet will be pumped with the last 30,000 lbs 20/40. Max treating pressure **5000 psi**. **Ensure extra PropNet is brought to location to use if needed.** Pump job as follows:

Pump 7,000 gal 50 Quality WF150 pad  
Pump 1,000 gal 50 Quality WF150 pad containing .5 PPG 20/40 mesh Jordan  
Pump 5,000 gal 50 Quality WF150 pad  
Pump 1,500 gal 50 Quality WF150 pad containing 1 PPG 20/40 mesh Jordan  
Pump 5,000 gal 50 Quality WF150 pad  
Pump 1,500 gal 50 Quality WF150 pad containing 1.5 PPG 20/40 mesh Jordan  
Pump 7,000 gal 50 Quality WF150 pad

Pump 6,000 gal 50 Quality WF150 containing 1 PPG 20/40 mesh Jordan  
Pump 8,000 gal 50 Quality WF150 containing 2 PPG 20/40 mesh Jordan  
Pump 9,000 gal 50 Quality WF150 containing 3 PPG 20/40 mesh Jordan  
Pump 10,000 gal 50 Quality WF150 containing 4 PPG 20/40 mesh Jordan  
Pump 5,000 gal 50 Quality WF150 containing 5 PPG 20/40 mesh Jordan  
Pump 6,000 gal 50 Quality WF150 containing 5 PPG 20/40 mesh Jordan w/ Prop Net

Flush to 6300'. **Do not overflush.** SI well and record ISIP, 5, 10, and 15 minute SIP. RD DS. SION and attempt to flow back in the morning.

15. Open well. Bleed pressure from well, if any. Release pkr. POH LD 3 ½" work string, on-off tool, and pkr.
16. PU and GIH with 4 ¾" MT bit on 2-7/8" Class A tubing, and WS as needed to approximately 6600'. If fill is tagged above 6600', cleanout to 6600' using 8.6# PPG cut brine water using air unit if necessary. POH with 2 7/8" tbg and bit. LD bit.
17. TIH w/ pkr to 6250'. Set @ 6250'. RU swab and swab well recording rates, volumes, pressures, and fluid levels. Report to engineer. RD swab.
18. Release pkr. POH 2-7/8" tubing and pkr.
19. RIH w/ 2-7/8" production tubing and hang off per ALS recommendation. NDBOP. NUWH. RIH w/ rods and pump per ALS.
20. RD Key PU & RU. Turn well over to production. Report producing rates, choke sizes, flowing pressures and/or fluid levels.

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

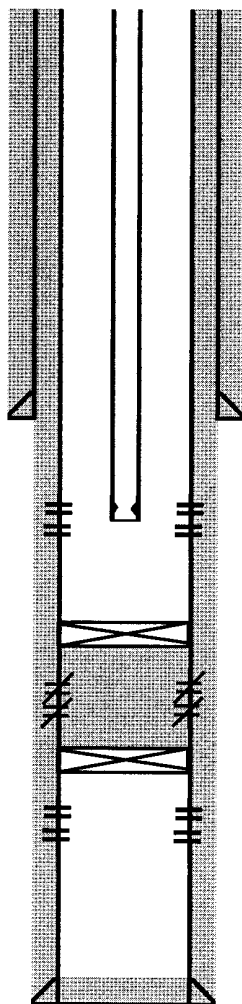
Well: **H.P. Saunders #2**

Reservoir: **Drinkard-Abo**

**Location:**  
1650' FSL & 2310' FEL  
Section: 7  
Township: 22S  
Range: 38E  
County: Lea, NM.

**Elevations:**  
GL: 3342'  
DF:   
KB: 3358'

**Current**



**CICR @ 7260'**

**CIBP @ 7650'**

**COTD: 7243'**  
**PBDT: 7260'**  
**TD: 8000'**

**Updated: 3/2/2007**

**By: rjdg**

**Well ID Info:**  
Refno: EP7921  
API No: 30-025-25651  
L5/L6:  
Spud Date: 11/1/1977  
Compl. Date: 3/4/1978

**Surface Csg:** 9-5/8", 35#, K-55  
**Set: @** 1345' w/ 550 sks  
**Hole Size:** -  
**Circ:** Yes  
**TOC By:** Circulation

**TOC: Surface**

**Perfs** **Status**  
6940'-7235' Abo (Upper) - Open

**Perfs** **Status**  
7288'-7586' Abo (Lower) - Squeezed

**Perfs** **Status**  
7707'-7915' Granite Wash - Open Below CIBP

**Prod Csg:** 5-1/2", 15.5#/17#, K-55  
**Set: @** 8000' w/ 2600 sks  
**Hole Size:** 7-7/8"  
**Circ:** Yes  
**TOC By:** Circulation

**TOC: Surface**

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. Discuss w/ WEO Engineer, WO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

**Reservoir:** *Tubb Oil and Gas*

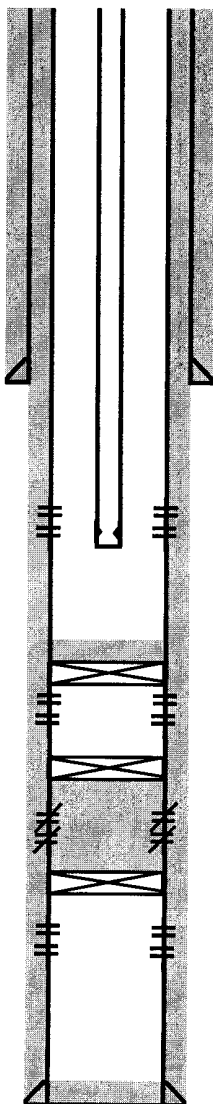
**Location:**

1650' FSL & 2310' FEL  
Section: 7  
Township: 22S  
Range: 38E  
County: Lea, NM.

**Elevations:**

GL: 3342'  
DF:  
KB: 3358'

**Proposed**



**Well ID Info:**

Refno:	EP7921
API No:	30-025-25651
L5/L6:	
Spud Date:	11/1/1977
Compl. Date:	3/4/1978

**Surface Csg:** 9-5/8", 35#, K-55  
**Set: @** 1345' w/ 550 sks  
**Hole Size:** -  
**Circ:** Yes  
**TOC By:** Circulation

**TOC: Surface**

<b>Perfs</b>	<b>Status</b>
6364'-6567'	Tubb - Open

<b>Perfs</b>	<b>Status</b>
6940'-7235'	Abo (Upper) - Open - Below CIBP

<b>Perfs</b>	<b>Status</b>
7288'-7586'	Abo (Lower) - Squeezed

<b>Perfs</b>	<b>Status</b>
7707'-7915'	Granite Wash - Open Below CIBP

**Prod Csg:** 5-1/2", 15.5#/17#, K-55  
**Set: @** 8000' w/ 2600 sks  
**Hole Size:** 7-7/8"  
**Circ:** Yes  
**TOC By:** Circulation

**TOC: Surface**

**CIBP @ 6900 w/ 35' cmt**

**CICR @ 7260'**

**CIBP @ 7650'**

**COTD:** 6865'  
**PBTD:** 6865'  
**TD:** 8000'

**Updated:** 3/2/2007

**By:** *rjdq*

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. Discuss w/ WEO Engineer, WYO Rep, OS, ALS, & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

**CaseLowis Tubing Detail**  
**7/24/2000**

Component Grouping	Name of Component	Install Date	Quantity	Length	Top Depth (Offset = 17.00)	Bottom Depth
Tubing String	J-55 2.375 OD/ 4.70# T&C External Upset 1.995 ID 1.901 Drift	7/24/2000	229	7154.28	17	7171.28
Tubing String	Seat Nipple - Standard (2.375") Cup Type	7/24/2000	1	1.1	7171.28	7172.38
Tubing String	Perforated Tubing Sub 2.375"	7/24/2000	1	4.05	7172.38	7176.43
Tubing String	Bull Plug Mud Anchor 2.375"	7/24/2000	1	31.13	7176.43	7207.56
Rod String	1.250 (1 1/4 in.) Spray Metal x 22 - w/Polished Rod Liner	7/24/2000	1	22	17	39
Rod String	0.875 (7/8 in.) N-78 (D) x 2 Rod Sub	7/24/2000	1	2	39	41
Rod String	0.875 (7/8 in.) N-78 (D) x 4 Rod Sub	7/24/2000	1	4	41	45
Rod String	0.875 (7/8 in.) N-78 (D) x 25 Rod	7/24/2000	89	2225	45	2270
Rod String	0.750 (3/4 in.) N-78 (D) x 25 Rod	7/24/2000	196	4900	2270	7170
Rod String	0.750 (3/4 in.) N-78 (D) x 2 Rod Sub	7/24/2000	1	2	7170	7172
Rod String	Rod Pump (Insert) (NON-SERIALIZED) - 20-125-RHBC-16-4 (Bore = 1.25)	7/24/2000	1	16	7172	7188
Rod String	Dip Tube	7/24/2000	1	6	7188	7194

Top Perf	Bottom Perf	Net Feet	Total Holes
6364	6366	2	8
6371	6376	5	20
6406	6416	10	40
6430	6440	10	40
6510	6520	10	40
6557	6567	10	40
	Total	47	188

Tool Length	12 ft
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Perfs	Acid Volume	Max Rate	PPI Setting
6364-6366	200 gals	1/2 bpm	6356-6368
6371-6376	200 gals	1/2 bpm	6369-6381
6406-6416	200 gals	1/2 bpm	6405-6417
6430-6440	200 gals	1/2 bpm	6429-6441
6510-6520	200 gals	1/2 bpm	6509-6521
6557-6567	200 gals	1/2 bpm	6556-6568



## DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

## DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

## State of New Mexico

## Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

P.O. Box 2088

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Form C-102

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-25651	<sup>2</sup> Pool Code 60240	<sup>3</sup> Pool Name TUBB OIL AND GAS (OIL)
<sup>4</sup> Property Code 2717	<sup>5</sup> Property Name H.P. SAUNDERS	<sup>6</sup> Well No. 2
<sup>7</sup> OGRID Number 4323	<sup>8</sup> Operator Name CHEVRON USA INC	<sup>9</sup> Elevation 3342' GL

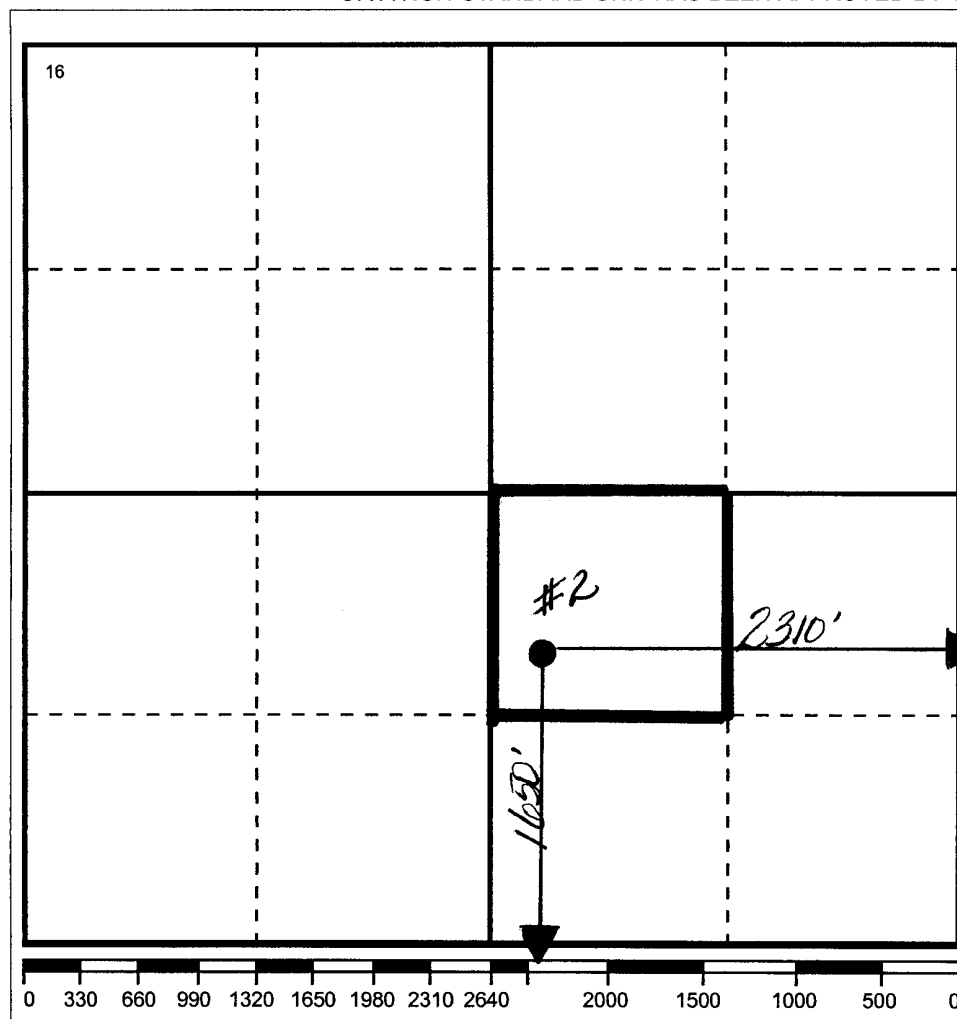
<sup>10</sup> Surface Location

UI or lot no J	Section 7	Township 22-S	Range 38-E	Lot.Idn	Feet From The 1650	North/South Line SOUTH	Feet From The 2310	East/West Line EAST	County LEA
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<sup>11</sup> Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
<sup>12</sup> Dedicated Acre 40	<sup>13</sup> Joint or Infill No	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Printed Name

Denise Pinkerton

Position

Regulatory Specialist

Date

3/8/2007

<sup>18</sup> 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 knowledge and belief.

Date Surveyed

Signature &amp; Seal of

Professional Surveyor

Certificate No.