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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

HOBBS OCD  
 DEC 02 2013

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. / 30-025-27629
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
2. Name of Operator CHEVRON U.S.A. INC. /		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705		7. Lease Name or Unit Agreement Name MCCALLISTER /
4. Well Location Unit Letter: D 660 feet from NORTH line and 660 feet from the WEST line Section 8 Township 20S Range 38E NMPM County LEA		8. Well Number 2 /
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		9. OGRID Number 4323 /
10. Pool name or Wildcat BLINEBRY/PADDOCK/TUBB		

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

<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPL <input type="checkbox"/> DOWNHOLE COMMINGLE <input type="checkbox"/> CLOSED-LOOP SYSTEM <input type="checkbox"/> OTHER: ADD PERFS, ACID STIM, ADD TBG, RDS, PUMP, RTP		<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> P AND A <input type="checkbox"/> CASING/CEMENT JOB <input type="checkbox"/> OTHER:	
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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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON U.S.A. INC. INTENDS TO ADD PERFS, PERFORM ACID STIMULATION JOB USING SONIC HAMMER, SCALE SQUEEZE, ADD TBG, RODS, & PUMP, & RTP.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE.

DURING THIS PROCESS WE PLAN TO USE THE CLOSED LOOP SYSTEM WITH A STEEL TANK AND HAUL TO THE REQUIRED DISPOSAL, PER THE OCD RULE 19.15.17.

Spud Date:  Rig Release Date:

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

SIGNATURE *Denise Pinkerton* TITLE REGULATORY SPECIALIST DATE 11/27/2013  
 Type or print name DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375  
 For State Use Only  
 APPROVED BY: *Mah Whitaker* TITLE Compliance Officer DATE 12-3-2013  
 Conditions of Approval (if any):

DEC 03 2013



## Workover/ Completion Program

Date: 8/23/2013

**Well:** Mccallister #2  
**Reservoir/Field:** Reservoir: Blinebry and Tubb; Field – Blinebry/Paddock & Tubb  
**Surface Location:** D-08-20S-38E 660 FNL 660 FWL  
**Lat/Long:** 32.5930851363181 -103.177109489287  
**API No:** 30-025-27629  
**Cost Center:** UCRG51400  
**Chevron Ref. No.:** AP0277  
**WBS #:** UWDP5-R3193

**Job:** Add perf, perform acid stimulation job using Sonic Hammer, SS, Add tubing, rods, pump & RTP.

**BRIEF BACKGROUND OF THE JOB:**

It is proposed to add perfs, acidize and scale squeeze the Blinebry (add perfs:- 5913'-5990', 6009'- 6041', 6045'-6072', 6109'-6178') and Tubb (Acidize only) of the Mccallister#2 using the Sonic Hammer tool. Also install tubing, rods and pump. The well was producing gas as per last allocated data (June/2013:- 52 mscf/month of gas). Currently the well does not have tubing or rods in the hole but it is producing some hydrocarbon.

The well's production before tubing failure was 0.5 BOPD, 0.5 BWPD & 1.73 MCF/D. Economics are based on achieving a deterministically incremental IP of 7.6 BOPD declined exponentially at 8.5% and 48 mscf/d declined exponentially at 8.8%.

**CURRENT HOLE CONDITION:**

Total Depth: 7,058' TAG: Unknown GL: 3,570' KB: 12.1' PBTD: 6,840'  
 Casing Record:

- 8 5/8", 24#, J-55, ST&C casing set @ 1,537' w/400 sx "C" cement (Circ-Surface).
- 5 1/2" 17& 15.5# J-55 ST&C casing set @ 7,058' w/1065 SKS "C" cement (340 Sx at Shoe, 725 at DV at 4881'. TOC- 1500'.
- 4 1/2", 11.6# J-55 Liner set @ 5900' w/135 sks (class C Neat) cement. TOC – 43'.

Existing Perforations:

Reservoir	Perforation Interval	Holes/Size
<b><u>Blinebry O&amp;G/Blinebry Perfs</u></b>	5856, 5866, 5868, 5870 6003, 6012, 6017, 6032, 6043, 6050, 6052, 6056, 6059, 6062, 6068, 6116, 6124, 6133, 6146, 6152, 6173, 6220, 6232, 6239, 6244, 6250, 6266, 6267	4 holes, 0.38 dia.  24 holes
<b><u>Tubb Perfs</u></b>	6443', 6444', 6454', 6465', 6469', 6471', 6487', 6497', 6501', 6503', 6505', 6507', 6509', 6521', 6523', 6529', 6535', 6537', 6547', 6551'	20 holes, 0.5 dia

**REGULATORY REQUIREMENTS:**

Submit C-103 Notice of Intent & Subsequent Reports (to be done by engineering staff)

### **PREWORK:**

1. Utilize the rig move check list, **verifying route and power line heights with FMT.**
2. Check anchors and verify that pull test has been completed in the last 24 months.
3. Ensure location of & distance to power lines (from wellhead) is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
4. Ensure that location is of adequate build and construction, and will support operations.
5. Ensure that elevators and other lifting equipment are inspected. For wells to be worked on or drilled in an H<sub>2</sub>S field/area, include the anticipated maximum amount of H<sub>2</sub>S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.
6. Review JSA and hazards with rig crew. Visually inspect wellhead, casing and tubing valves. Decide whether tubing and casing valves can be used; replace as needed.
7. Scout location and mark off anything that might be hazardous to daily operations.

### **Reminders:**

8. Caliper all lifting equipment at the beginning of each day or when sizes change. **Note in JSA and record on Elevator Change-out Log when and what items are callipered.**
9. When NU anything over an open wellhead (BOP, EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
10. Ensure well is secure/shut in with blind rams between job stages (nothing in well).
11. If pumping any cement, plugging back a well or changing producing intervals, always contact the OCD and give the details.
12. Hold safety meetings with all personnel on location prior to any major or abnormal operation.

### **Procedure:**

**This procedure is meant to be followed. It is up to the WSM, Workover Engineer and Production Engineer to make decisions necessary to SAFELY do what is best for the well. In the extent that this procedure does not reflect actual operations, please contact WE, PE and Superintendent for MOC/RUMS assessment.**

### **RIG UP WO UNIT/ PULL WELL EQUIPMENT OUT OF HOLE**

1. MIRU workover unit & associated surface equipment (i.e. tanks, reverse unit, pipe racks).
2. Verify that well does not have pressure or flow. If the well has pressure, note tubing and casing pressures on WellView report. Bleed down well and verify no H<sub>2</sub>S is present. If necessary, kill well with cut brine.
3. ND wellhead, NU BOP dressed with 2 7/8" pipe rams on top and blind rams on btm. PU 5 1/2" 17# rated packer along with few joints of 2 7/8" tubing and set ~ @ 25', test BOP pipe rams to 250/500 psi. Note testing pressures on WellView report (Time log and safety/inspections). Release and LD packer.

### **ADDING PERFORATIONS:**

Establish radio silence and set up exclusion zone around WL unit. GIH w/3 1/8" Exp-331-322-T Gun, 0.4" EH, 40.89" penetration depth, 6 Jspf, 90 deg phasing, perforating guns and perforate following depths highlighted in red (Blinebry as well as Tubb), as tabulated below, as per Apollo Perforators Inc. recommendation. GIH w/3 1/8" Gas Gun expend across following depths highlighted in red (Blinebry as well as Tubb). Don't perforate existing perms as highlighted in Green. Then GIH and correlate to Compensated Densilog Compensated Neutron Gamma Log dated 03/28/1982.

**Note: - Depths in the table in red colour are proposed new perms which needs to be perforated and acidized.**

Blinebry						
Top (md)	Base (md)	Net (ft)/Holes	Avg. Porosity	Rt	Rw	Sw
5856'	5870'	14 ft/4 holes	Existing perms (don't perf, Acidize only)			
5913'	5990'	77 ft	9%	90	0.057	28%
6009'	6041'	32 ft	7%	230	0.057	22%
6045'	6072'	27 ft	15%	150	0.057	13%
6109'	6178'	69 ft	10%	200	0.057	17%
6220'	6267'	47 ft/7 holes	Existing perms (don't perf, Acidize only)			
Tubb						
Top (md)	Base (md)	Net (ft)/Holes	Avg. Porosity	Rt	Rw	Sw
6443'	6551'	108 ft/20 holes	Existing perms (don't perf, Acidize only)			

4. POOH w/ perforating guns and verify that all shots were fired. ND Lubricator. RD and release electric line unit.
5. RDMO pulling unit.

**SONIC HAMMER OPERATION**

6. Contact sonic tool rep to be on site during job. *Verify that WS is clean, inspect for excessive rust.* PU and RIH with Sonic Hammer tool, seat nipple, and work string to 6,900' or enough to cover the bottom perforations with a whole stand. Hydrotest tubing to 5,000 psi. Stand back tubing to top perforations. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Rig up pressure gauges to allow monitoring of tubing and casing pressures.
7. MI & RU Petroplex and pressure test surface lines. Titrate acids and verify concentration (HCl ±1.5%) report results in daily work summary. If well will circulate proceed to step 7.b).
  - a) **Sonic Hammer for non circulating wells.** Treat all 11 intervals from 5,850' to 6,555' with the following procedure from the top interval to the bottom interval. Shut in the annulus. Do not exceed 5,000 psi tubing pressure.
    - i) While reciprocating over the perf interval, pump 30 bbls of cut brine, followed by 15% NEFE HCL and then flush tubing with cut brine pumping at 5 BPM. Repeat with all intervals listed in Table A using the acid volumes listed for each interval.

**Table A: Perforation Intervals for acid.**

Stage	Depth	Interval (Ft.)	Acid Volume (gal)
1	5850' - 5875'	25	1,200
2	5910' - 5950'	40	1,800
3	5950' - 6000'	50	2,300
4	6000' - 6040'	40	1,800
5	6040' - 6075'	35	1,600
6	6105' - 6145'	40	1,800
7	6145' - 6185'	40	1,800
8	6215' - 6270'	55	2,500
9	6440' - 6480'	40	1,800
10	6480' - 6520'	40	1,800
11	6520' - 6555'	35	1,600
			20,000

- ii) R/D Petroplex Acidizing, drop Sonic Hammer circulating port opening ball, shut in well for 1 hr for the acid to spend.
  - ❖ If WSM believes that the formation may take longer to spend the acid, wait until appropriate to open circulating ports and attempt swabbing.
- iii) Pressure up the tubing to ~2000 psi to open the sonic hammer tool circulating port.
- iv) R/U swab equipment and swab well back to flowback tank until the load is recovered or returns are produced fluid and no longer spent acid.

**Before/During Swabbing:**

Inspect sandline to be sure it's free of excessive rust, bird's nests, frays, kinks, knots, etc.

- v) R/D swab equipment and POOH w/ tubing to top perf.
  - vi) Pump 50 bbls cut brine mixed w/ 4 drums Baker SCW-358 scale inhibitor down the tubing through the circulating ports on the Sonic Hammer at a max rate of 5 bpm.
  - vii) Displace scale squeeze w/ 150 bbls of cut brine.
  - viii) Run back in the hole and tag for fill. If fill entry was identified, clean-out to PBTD, 6,840', following Foam / Air Cleanout Procedure
  - ix) TOOH w/ sonic hammer. Proceed to step 8.
- b) Sonic Hammer treatment w/ a circulating well.**
- i) Treat interval #1 (referring to Table B) with 30 bbls of cut brine. Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating.
  - ii) Pick up enough pipe to reach the next interval and repeat step 7.b)i) until all intervals are washed.

**Table B: Perforation Intervals for acid.**

Stage	Depth	Interval (Ft.)	Acid Volume (gal)
1	5850' - 5875'	25	1,200
2	5910' - 5950'	40	1,800
3	5950' - 6000'	50	2,300
4	6000' - 6040'	40	1,800
5	6040' - 6075'	35	1,600
6	6105' - 6145'	40	1,800
7	6145' - 6185'	40	1,800
8	6215' - 6270'	55	2,500
9	6440' - 6480'	40	1,800
10	6480' - 6520'	40	1,800
11	6520' - 6555'	35	1,600
			20,000

- iii) Starting at interval #11 fill tubing w/ acid and shut in backside. Pump the volume of acid specified in Table B at 5 BPM reciprocating over the perf interval. Flush tubing with cut brine. Casing pressure should not exceed 500 psi. If necessary, bleed off or slow pumping rate.
- iv) TOOH w/ tubing to the next interval and repeat step 7.b)iii) acidizing each interval according to Table A.
- v) Shut in well for 1 hr for the acid to spend. Monitor casing pressure to keep it below 500 psi. Bleed off excess pressure if necessary.

- vi) Kill well and POOH Sonic Hammer Tool and WS. LD Sonic Hammer.
- vii) PU & RIH with 5 1/2" packer and WS. Set treating packer at 5800', above the top perf.
- viii) RU swab crew and flowback tank.

**Before/During Swabbing:**

Inspect sandline to be sure it's free of excessive rust, bird's nests, frays, kinks, knots, etc.

- ix) Swab well until returns indicate formation fluid and not spent acid, or fluid level drops enough to make swabbing non productive.
  - x) Pump 260 bbls cut brine mixed with 4 drums of scale inhibitor (220 gals) Baker SCW-358 Scale Inhibitor Chemical down the packer. Pump at a max rate of 5 BPM.
  - xi) Displace scale squeeze with 110 bbls of cut brine.
  - xii) Ensure Sonic Hammer is above all perforations. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. Shut in well overnight.
  - xiii) Run back in the hole and tag for fill. If fill entry was identified, clean-out to PBTD, 6840', following Foam / Air Cleanout Procedure.
  - xiv) POOH packer and WS. LD 2 7/8" WS and packer.
8. RIH with 2 7/8" production tubing hydrotesting to 5,000 psi. Set TAC per ALCR recommendation. ND BOP. NU WH. RIH with rods and pump per ALCR. Hang well on. RD and release workover unit.
9. Turn well over to production.

## FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
  1. Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery. Hardline pipes from 2" casing valve to manifold to half pit with gas buster. **Set up an exclusion zone around flowback line.**
  2. Install flowback tank downwind from rig.
  3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
  4. RIH with 4 <sup>3</sup>/<sub>4</sub>" MT bit, four (3 <sup>1</sup>/<sub>2</sub>" ) drill collars on 2 <sup>7</sup>/<sub>8</sub>" 6.5# L-80 WS.
  5. NU stripper head with **NO Outlets** (Check stripper cap for thread type - course threads preferred). **Stripper head to be stump tested to 1,000 psi before being delivered to rig.** Check chart or test at rig.
  6. RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

**Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute**

**Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.**

7. Clean out fill to 6840' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.
8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

**Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out.**

**Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.**

**Continue on with original procedure for completion.**

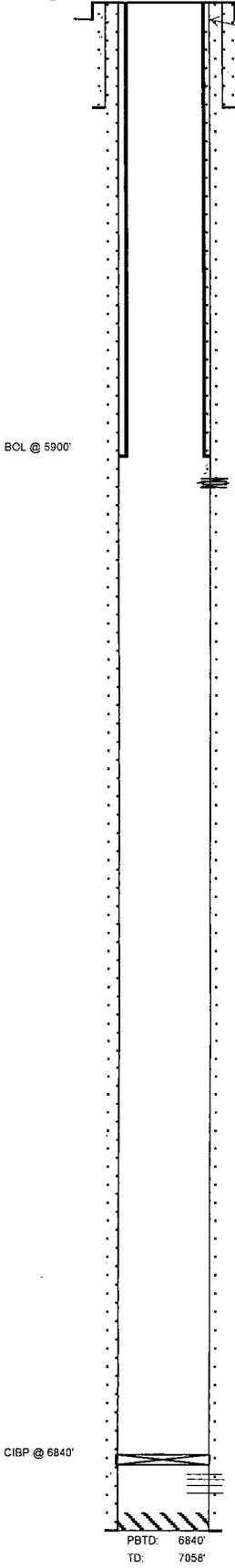


Lease Name: McCallister  
 Well No.: 2-8  
 Location: 660' FNL & 660' FWL  
 Sec.: UL D / SEC 8  
 TWNSHP/RNG T20S / R38E  
 LAT/LONG 32.5930851363181  
 -103.177109489287

Field: NADINEW, NADINE  
 Reservoir: PADDOCK/BLINEBRY / TUBB  
 GR: 3570'  
 KDB:  
 DFE:  
 Status: OISI

API No.: 30-025-27629  
 REFNO: AP0277  
 Spud Date: 3/11/1982  
 Comp. Date: 4/21/1982  
 County: LEA  
 State: NM

17 1/2"  
 13 3/8" @ 20'



Hole Size: 12 1/4"  
 Csg. Size: 8 5/8" 24#  
 Set @: 1537'  
 Sks. Cmt.: 400 SKS  
 Circ: Y

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 Exercise Field Office. Discuss w/ WEO Engineer, WVO Rep, DS, ALS & FS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

**Current Wellbore Diagram**

RUN 11/2008  
 LNR SIZE: 4 1/2" UFJ 11.6# J-55  
 Set @: 5900' - SURFACE  
 Sks. Cmt.: 135 SKS (Class C Neat)  
 TOC @: 43'

BLINEBRY/PADDOCK  
 10/83 - 5856-70'

Perf Interval	# holes (0.38" each)	Status
5856	1	Existing Perfs - Don't Perf
5866	1	Existing Perfs - Don't Perf
5868	1	Existing Perfs - Don't Perf
5870	1	Existing Perfs - Don't Perf

6/85-SQZD 5932-6052' W/50 SKS

9/91 - 6003-6267'

Perf Interval	# holes	Status
6003	1	Existing Perfs - Don't Perf
6012	1	Existing Perfs - Don't Perf
6017	1	Existing Perfs - Don't Perf
6032	1	Existing Perfs - Don't Perf
6043	1	Existing Perfs - Don't Perf
6050	1	Existing Perfs - Don't Perf
6052	1	Existing Perfs - Don't Perf
6056	1	Existing Perfs - Don't Perf
6059	1	Existing Perfs - Don't Perf
6062	1	Existing Perfs - Don't Perf
6068	1	Existing Perfs - Don't Perf
6116	1	Existing Perfs - Don't Perf
6124	1	Existing Perfs - Don't Perf
6133	1	Existing Perfs - Don't Perf
6146	1	Existing Perfs - Don't Perf
6152	1	Existing Perfs - Don't Perf
6173	1	Existing Perfs - Don't Perf
6220	1	Existing Perfs - Don't Perf
6232	1	Existing Perfs - Don't Perf
6239	1	Existing Perfs - Don't Perf
6244	1	Existing Perfs - Don't Perf
6250	1	Existing Perfs - Don't Perf
6266	1	Existing Perfs - Don't Perf
6267	1	Existing Perfs - Don't Perf

TUBB 12/97 - 6443-6551'

Perf Interval	# holes (0.5" each)	Status
6443'	1	Existing Perfs - Don't Perf
6444'	1	Existing Perfs - Don't Perf
6454'	1	Existing Perfs - Don't Perf
6465'	1	Existing Perfs - Don't Perf
6469'	1	Existing Perfs - Don't Perf
6471'	1	Existing Perfs - Don't Perf
6487'	1	Existing Perfs - Don't Perf
6497'	1	Existing Perfs - Don't Perf
6501'	1	Existing Perfs - Don't Perf
6503'	1	Existing Perfs - Don't Perf
6505'	1	Existing Perfs - Don't Perf
6507'	1	Existing Perfs - Don't Perf
6509'	1	Existing Perfs - Don't Perf
6521'	1	Existing Perfs - Don't Perf
6523'	1	Existing Perfs - Don't Perf
6529'	1	Existing Perfs - Don't Perf
6535'	1	Existing Perfs - Don't Perf
6537'	1	Existing Perfs - Don't Perf
6547'	1	Existing Perfs - Don't Perf
6551'	1	Existing Perfs - Don't Perf

CIBP @ 6840'

DRINKARD  
 4/82 - 6895-6954'  
 6/85 - 6881-7022'  
 Hole Size: 7 7/8"  
 Csg. Size: 5 1/2" 17# 15.5#  
 Set @: 7058'  
 Sks. Cmt.: 1065 SKS (340 Sk at Shoe, 725 at DV at 4881')  
 TOC @: 1500'  
 Circ: Y/N: N

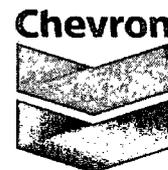
PBTD: 6840'  
 TD: 7058'

Updated: 10/9/2013 By: SEHE

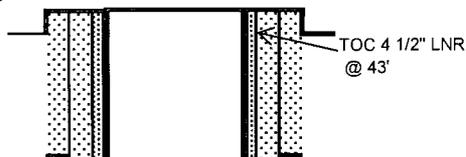
Lease Name: McCallister  
 Well No. 2-8  
 Location: 660' FNL & 660' FWL  
 Sec.: UL D / SEC 8  
 TWNSHP/RNG T20S / R38E  
 LAT/LONG 32.5930851363181  
 -103.177109489287

Field: NADINE/W. NADINE  
 Reservoir: PADDOCK/BLINEBRY / TU  
 GR: 3570'  
 KDB:  
 DFE:  
 Status: OISI

API No.: 30-025-27629  
 REFNO: AP0277  
 Spud Date: 3/11/1982  
 Comp. Date: 4/21/1982  
 County: LEA  
 State: NM



17 1/2"  
 13 3/8" @ 20'



Hole Size: 12 1/4"  
 Csg. Size: 8 5/8" 24#  
 Set @: 1537'  
 Sks. Cmt.: 400 SKS  
 Circ: Y

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, WEO Rep, OS, A.L.S. & PS prior to rigging up on well regarding any hazards or unknown issues pertaining to the well.

RUN 11/2008  
 LNR SIZE: 4 1/2" UFJ 11.6# J-55  
 Set @: 5900' - SURFACE  
 Sks. Cmt.: 135 SKS (Class C Neat)  
 TOC @: 43'

**PROPOSED WELLBORE DIAGRAM**

BOL @ 5900'

**BLINEBRY/PADDOCK**  
 10/83 - 5856-70'

Perf Interval	# holes (0.38" each)	Status
5856	1	Existing Perfs - Don't Perf
5866	1	Existing Perfs - Don't Perf
5868	1	Existing Perfs - Don't Perf
5870	1	Existing Perfs - Don't Perf

Perf Interval	Interval Length	Status
5913'-5990'	77	proposed Perfs
6009'-6041'	32	proposed Perfs
6045'-6072'	27	proposed Perfs
6109'-6178'	69	proposed Perfs

9/91 - 6003-6267'

Perf Interval	# holes	Status
6220	1	Existing Perfs - Don't Perf
6232	1	Existing Perfs - Don't Perf
6239	1	Existing Perfs - Don't Perf
6244	1	Existing Perfs - Don't Perf
6250	1	Existing Perfs - Don't Perf
6266	1	Existing Perfs - Don't Perf
6267	1	Existing Perfs - Don't Perf

**TUBB** 12/97 - 6443-6551'

Perf Interval	# holes (0.5" each)	Status
6443'	1	Existing Perfs - Don't Perf
6444'	1	Existing Perfs - Don't Perf
6454'	1	Existing Perfs - Don't Perf
6465'	1	Existing Perfs - Don't Perf
6469'	1	Existing Perfs - Don't Perf
6471'	1	Existing Perfs - Don't Perf
6487'	1	Existing Perfs - Don't Perf
6497'	1	Existing Perfs - Don't Perf
6501'	1	Existing Perfs - Don't Perf
6503'	1	Existing Perfs - Don't Perf
6505'	1	Existing Perfs - Don't Perf
6507'	1	Existing Perfs - Don't Perf
6509'	1	Existing Perfs - Don't Perf
6521'	1	Existing Perfs - Don't Perf
6523'	1	Existing Perfs - Don't Perf
6529'	1	Existing Perfs - Don't Perf
6535'	1	Existing Perfs - Don't Perf
6537'	1	Existing Perfs - Don't Perf
6547'	1	Existing Perfs - Don't Perf
6551'	1	Existing Perfs - Don't Perf

CIBP @ 6840'

PBTD: 6840'  
 TD: 7058'

**DRINKARD**  
 4/82 - 6895-6954'  
 6/85 - 6881-7022'

Hole Size: 7 7/8"  
 Csg. Size: 5 1/2" 17& 15.5#  
 Set @: 7058'  
 Sks. Cmt.: 1065 SKS (340 Sx at Shoe, 725 at DV at 4881')  
 TOC @: 1500'  
 Circ: Y/N: N

Updated: 10/9/2013

By: SEHE