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Form 3160-5
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
LC032100

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☑ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
C.H. LOCKHART FEDERAL NCT-1 #11

2. Name of Operator
CHEVRON U.S.A. INC.

9. API Well No.
30-025-30739

3a. Address
15 SMITH ROAD
MIDLAND, TEXAS 79705

3b. Phone No. *(include area code)*
432-687-7375

10. Field and Pool or Exploratory Area
BRUNSON; DRINKARD-ABO, SOUTH

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
380 FNL, & 330 FWL, SECTION 18, UL: D, T-22S, R-38E

11. County or Parish, State
LEA COUNTY, NEW MEXICO

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☑ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

CHEVRON U.S.A. INC. INTENDS TO ACIDIZE & SCALE SQUEEZE THE SUBJECT WELL.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & C-144 INFORMATION FOR THE NMOCD.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
DENISE PINKERTON

Title REGULATORY SPECIALIST

Signature Denise Pinkerton

Date 11/30/2012

APPROVED

JAN 7 2013

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

JAN 14 2013

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

C.H. Lockhart NCT-1 #11 **11.28.2012**
Blinebry Oil and Gas, Drinkard, Abo and Granite Wash Reservoirs
T22S, R38E, Sec. 18
N 32° 23' 52.62", W -103° 6' 23.58" (NAD27)
Job: Sonic Hammer, Acidize & Scale Squeeze

PREWORK:

1. Utilize the rig move check list.
2. Check anchors and verify that pull test has been completed in the last 24 months.
3. Ensure location of & distance to power lines 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.
5. Ensure that elevators and other lifting equipment are inspected. Caliper all lifting equipment at the beginning of each day or when sizes change.
6. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
7. For wells to be worked on or drilled in an H_2S field/area, include the anticipated maximum amount of H_2S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.
8. If the possibility of trapped pressure exists, check for possible obstructions by:
   - Pumping through the fish/tubular – this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
   - Dummy run – make a dummy run through the fish/tubular with sandline, slickline, eline or rods to verify no obstruction. Prior to making any dummy run contact RE and discuss.

   If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:

   - Hot Tap at the connection to check for pressure and bleed off

   Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

Procedure:

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

1. Verify that well does not have pressure or flow. If well has pressure, note tubing and casing pressures on Wellview report. Bleed down well; if necessary, kill with 2% KCL brine fluid (8.6 ppg).

2. MI & RU workover unit.

3. Unseat pump, POOH with rods and pump. Examine rods for wear/pitting/paraffin. Do not hot water unless necessary. ND wellhead, unset TAC, NU BOP. POOH and LD 1 jt, PU 5-1/2" packer and set ~ @ 25', test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on Wellview report. Release and LD packer.

4. POOH while scanning 2-7/8" 6.5# J-55 prod tubing. LD all non-yellow band joints. (TAC 6,737', Top Perf 6,878', Bottom Perfs 7,582', EOT 7,546', PBTD 7,551').

   Note: Strap pipe out of the hole to verify depths and note them on Wellview report.
   Send scan log report to LGBI@chevron.com.

5. PU and RIH with 4-3/4" MT bit, 6 (3-1/2") drill collars on 2-7/8" 6.5# L-80 WS. RU power swivel and clean out to original PBTD at 7,620' with foam/air unit **(continue to supplemental procedure and in accordance with attached SOG)**. POOH with 2-7/8" WS and bit. LD bit & BHA. Stand back work string.

6. Contact sonic tool rep to be on site during job. *Verify that work string is clean, inspect for excessive rust.* PU and RIH with Sonic Hammer tool and work string to ~7,587' or enough to cover the bottom perforations with a whole stand. Hydrotest tubing to 6,000 psi. Stand back tubing to top perforations. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Take returns out BOP to ½ free w/gas buster.

7. MI & RU Petroplex. Titrate acids and verify concentration (HCl ±1.5%) report results in daily work summary. Treat all intervals from 6,874' to 7,587' with 30 bbls of 2% KCL brine water per interval (refer to Table A). 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 intervals with 2% KCL brine.

8. Follow the brine water wash with 5,000 gals 15% NEFE HCl of total acid for all intervals as in Table A. Spot 3 bbls of acid outside tubing, shut in casing, pump 1,500 gallons of acid @ 5 BPM over first treating interval from 6,874'-6,919', monitor casing pressure not exceeding 500 psi. Flush tubing with 2% KCL brine after every acidized interval, make a connection and continue with remaining interval. Refer to Table A.

Table A: Perforation Intervals for acid.

Interval	Depth	Interval (Ft.)	Acid Volume (gal)
1	6874' - 6919'	45	1,500
2	6919' - 6967'	48	1,500
3	7452' - 7466'	14	500
4	7505' - 7564'	59	1,000
5	7564' - 7587'	23	500
		Total	**5,000**

9. 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. Attempt to flow back. If acid does not flow back, do not swab.

10. Scale squeeze well with a total of 170 bbls 2% KCL brine water and 3 drums (165 gallons) Baker SCW-358 Scale Inhibitor Chemical. For 1st stage, pump chemical as a concentrated pill of 33 gals of SCW-358 with 8 bbl of 2% KCL then displaced with 20 bbls of 2% KCL per interval. Continue moving uphole with Sonic Hammer. Pump at max rate of 5 BPM per pump schedule. Ensure top of tubing is flushed with brine water before making a connection. After final stage, move sonic hammer above top perf and displace with 50 bbls 2% KCL. Refer to Table B.

Stage	Interval	Interval (ft)	Vol Brine (bbl)	Vol Chem (Gal)
1	7587' - 7564'	23	20	33
2	7564' - 7505'	59	20	33
3	7466' - 7452'	14	20	33
4	6967' - 6919'	48	40	33
5	6919' - 6874'	45	20	33

Table B: Scale Sqz Pump Schedule						
Step		Interval (ft)	Max Rate (BPM)	Volume Brine (bbl)	Volume Scale Chem (Gal)	Cum Volume (bbl)
1	Pump Chemical/brine while moving from	7587' - 7564'	5	8	33	8.8
2	Pump Brine while moving from	7587' - 7564'	5	12		21
3	Pump Chemical/brine while moving from	7587' - 7564'	5	8	33	30
4	Pump Brine while moving from	7587' - 7564'	5	12		42
5	Pump Chemical/brine while moving from	7587' - 7564'	5	8	33	50
6	Pump Brine while moving from	7587' - 7564'	5	12		62
7	Pump Chemical/brine while moving from	7587' - 7564'	5	2	9	65
8	Move pipe to next interval of	7564' - 7505'				65
9	Pump Chemical/brine while moving from	7564' - 7505'	5	6	24	71
10	Pump Brine while moving from	7564' - 7505'	5	14		85
11	Move pipe to next interval of	7466' - 7452'				85
12	Pump Brine while moving from	7466' - 7452'	5	18		103
13	Pump Chemical/brine while moving from	7466' - 7452'	5	2	9	105
14	Move pipe to next interval of	6967' - 6919'				105
15	Pump Chemical/brine while moving from	6967' - 6919'	5	6	24	112
16	Pump Brine while moving from	6967' - 6919'	5	32		143
17	Move pipe to next interval of	6919' - 6874'				143
18	Pump Brine while moving from	6919' - 6874'	5	30		174

11. Ensure Sonic Hammer is above all perforations. Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. RD and release pump truck.

12. Run back in the hole and tag for fill. If fill entry was indentified above 7,600', clean-out to PBTD following step 5.

13. POOH & LD 2-7/8" WS and Sonic Hammer tool.

14. RIH with 2-3/8" production tubing hydrotesting to 6,000 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.

15. 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.
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 4-3/4" MT bit, 4 (3-1/2") drill collars on 2-7/8" 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.

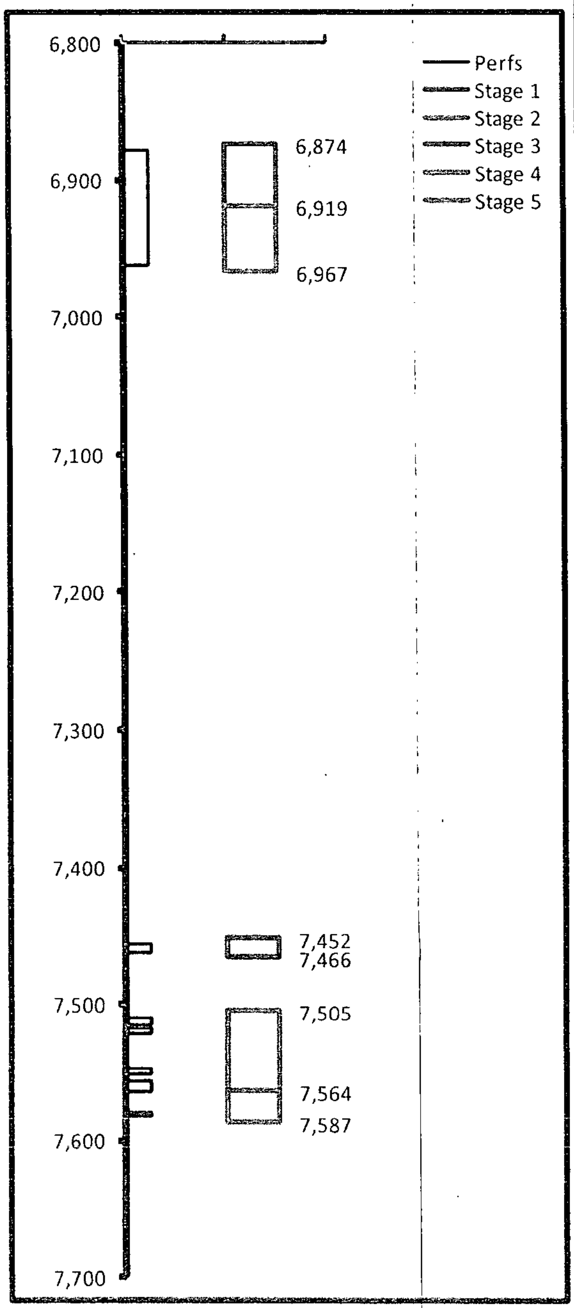
7. Clean out fill to 7,620' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull 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.

C.H. Lockhart NCT-1 #11



Perfs Detail				
Top *ft*	Bottom *ft*	Interval Length *ft*	Status	Reservoir
6,878	6,962	84	Open	Drinkard Abo
7,456	7,462	6	Open	G. Wash
7,510	7,515	5	Open	G. Wash
7,518	7,522	4	Open	G. Wash
7,548	7,552	4	Open	G. Wash
7,556	7,564	8	Open	G. Wash
7,580	7,582	2	Open	G. Wash
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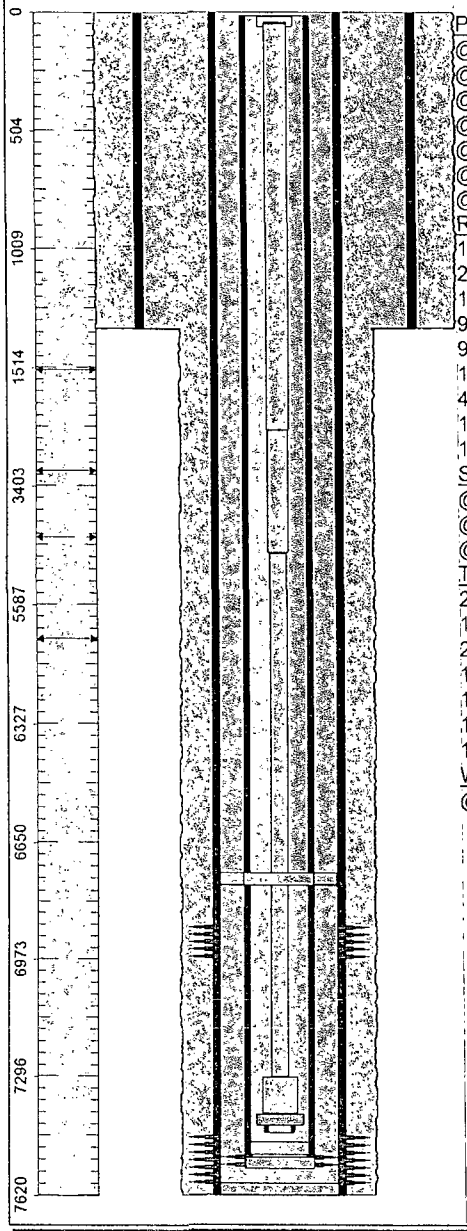
Total				
6,878	7,582	113		

Chevron U.S.A. Inc. Wellbore Diagram : LOCKHRTNCT111DHC

Lease: OEU EUNICE	**Well No.:** LOCKHRT NCT1 11 PARENT FOR DH	**Field:** BLINEBRY OIL & GAS	
Location: 380FNL330FWL	**Sec.:** N/A	**Blk:**	**Survey:** N/A
County: Lea **St.:** New Mexico	**Refno:** IY9511	**API:** 3002530739	**Cost Center:** UCU464100
Section: 18	**Township:** 022 S		**Range:** 038 E
Current Status: ACTIVE		**Dead Man Anchors Test Date:** 01/04/2007	
Directions:			



Production Casing (Top-Bottom Depth) Desc
@(0-0) Producing Interval 99 PR
@(6878-6962) Perforations-Open Brunson Drinkard Abo
@(7456-7582) Perforations-Open Granite Wash
@(0-7620) Unknown 5.500 OD/ 17.00# Round Long 4.892 ID 4.767 Drift
@(7586-7620) Plug Back-Fill
@(1350-7620) Wellbore Hole OD- 7.8750
@(0-7620) Cement
Rod String Quantity (Top-Bottom Depth) Desc
1 @(14-40) 1.500 (1 1/2 in.) Spray Metal x 26 - Spray Metal
2 @(40-44) 1.000 (1 in.) D x 2 Rod Sub
1 @(44-48) 1.000 (1 in.) D x 4 Rod Sub
95 @(48-2423) 1.000 (1 in.) D x 25 Rod
95 @(2423-4798) 0.875 (7/8 in.) D x 25 Rod
100 @(4798-7298) 0.750 (3/4 in.) D x 25 Rod
4 @(7298-7398) 1.500 (1 1/2 in.) K x 25 Sinker Bar
1 @(7398-7418) Rod Pump (Insert) (NON-SERIALIZED) - 25-125-RHBC-20-...
1 @(7418-7430) Gas Anchor 1.250 OD x 12'
Surface Casing (Top-Bottom Depth) Desc
@(0-1350) Cement
@(0-1350) Unknown 11.750 OD/ 42.00# Round Short 11.084 ID 10.928 Drift...
@(0-1350) Wellbore Hole OD-14.7500
Tubing String Quantity (Top-Bottom Depth) Desc
210 @(14-6735) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347...
1 @(6735-6737) Tubing Anchor/Catcher 2.875"
23 @(6737-7477) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.34...
1 @(7477-7509) J-55 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347...
1 @(7509-7510) Seat Nipple - Standard (2.875") Cup Type
1 @(7510-7514) Perforated Tubing Sub 2.875"
1 @(7514-7546) Bull Plug Mud Anchor 2.875"
Wellbore Notes (Top-Bottom Depth) Desc
@(7551-7551) Wellbore Comment

Ground Elevation (MSL):: 3341.00	**Spud Date:** 01/11/1990	**Compl. Date:** 01/01/1970
Well Depth Datum:: CSI0000N	**Elevation (MSL)::** 0.00	**Correction Factor:** 14.00
Last Updated by: fttr	**Date:** 04/08/2007	