

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.5. Lease Serial No.
NM91078

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
CHEVRON U.S.A. INC.3a. Address
15 SMITH ROAD
MIDLAND, TEXAS 797053b. Phone No. (include area code)
432-687-7375

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

8. Well Name and No.
LENTINI 1 FEDERAL #39. API Well No.
30-015-2753510. Field and Pool or Exploratory Area
HERRADURA BEND; DELAWARE EAST4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
UL: E, SECTION 1, T-23S, R-22E, 1825 FNL. & 900 FWL11. County or Parish, State
EDDY COUNTY, NEW MEXICO

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other ADD PAY & FRAC STIMULATE
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 ADD ADDITIONAL PERFORATIONS IN THE BRUSHY CANYON FORMATION AND FRACTURE STIMULATE.

PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, & WELLBORE DIAGRAMS.

DURING THE PROCEDURE 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.

Accepted for record
NMOCTOS
8/15/2013SEE ATTACHED FOR
CONDITIONS OF APPROVAL14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
DENISE PINKERTON

Title REGULATORY SPECIALIST

Signature

Date 07/30/2013

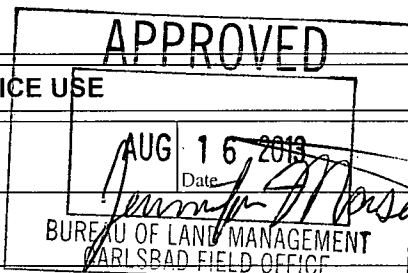
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.



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)



Workover/ Completion Program

Date: 04/19/2013

Well: Lentini 1 Federal #03
Reservoir/Field: Reservoir: Brushy Canyon/ Field - East Herradura Bend
Surface Location: Sec 01-T23S-R28E 1825 FNL 900 FWL
GPS (NAD27) – (Long, Lat): N32° 20' 14.388", W-104° 2' 50.064" (NAD27)
API No: 30-015-27535
Cost Center: UCKF10100
Chevron Ref. No.: OV7886
WBS #:

Job: Add additional Brushy Canyon (Delaware) perforations and sand frac.

BRIEF BACKGROUND OF THE JOB:

Currently, the well is only perforated in a small portion of the Brushy Canyon formation. It is proposed to add two additional perforation depths in the Brushy Canyon formation [5,226'-5,250' (new) and 5,696'-5,730' (new)] without re-perforating the existing perforation of the Lentini 1 Federal #03, followed by sand fracturing the formation to increase the production.

CURRENT HOLE CONDITION:

Total Depth: 6,385' PB: (6,252'-6,260') PB - Fill (sand) GL: 3056' KB: +12'
PBSD: (6,260'-6,385') PBSD-(Cement)

In the last wellview and LOWIS WBD plug back depth mentioned was 6,252'. But in the last WO, tag fill recorded was at 6,220' (15' below the EOT- *Wellview- Pump Repair, 8/15/2011-Daily Operations* report). For this job, 6,205' will be an acceptable PBSD if hard fill is encountered that the bit cannot work through.

Casing Record:

8 ⁵/₈" 24#, K-55, set w/200 sks Class C cement. TOC-Surface (Circ 100 sks)
5 ¹/₂" 15.5# K-55, set w/900 sks Class C cement. TOC - Surface, Circ 19 sks

Existing Perforations:

Brushy Canyon (Delaware): 5,570'-5,582'
Brushy Canyon (Delaware): 5,920'-5,944'
Brushy Canyon (Delaware): 6,148'-6,164'

REGULATORY REQUIREMENTS:

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

Prepared by: Prasanna K Chandran (05/06/13)

Reviewed by: Evan Asire (05/30/13)

PREWORK:

1. Utilize the rig move check list.
2. Check anchors and verify that a 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 an electrical variance and RUMS if necessary.
4. Ensure that location is of adequate build and construction.
5. Ensure that elevators and other lifting equipment are inspected. Calliper 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 H₂S field/area, include the anticipated maximum amount of H₂S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.
8. Ensure well is secure/shut in with blind rams between job stages (nothing in well).

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.

NOTE: Schedule Dickey Analytical to be present at Frac. (Rita Dickey) 432-553-2526

RIG UP WO UNIT/ PULL WELL EQUIPMENT OUT OF HOLE

1. MI & RU workover unit.
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 kill with cut brine, if necessary.
3. Unseat pump, POOH laying down rods and pump. Examine rods for wear/pitting/paraffin. Do not hot water unless necessary.
4. **Caliper elevators and tubular EACH DAY prior to handling tubing/tools and anytime size changes (Use elevator change out log as well). Note in JSA when and what items are callipered within the task step that includes that work.**
5. ND wellhead, unset TAC, NU BOP dressed with 2 7/8" pipe rams on top and blind rams on btm. POOH and LD 1 jt. PU 5 1/2" 15.5# rated packer along with a joint of 2 7/8" tubing and set ~ @ 25', test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on WellView report (Time log and safety/inspections). Release and LD packer.
6. PU 1-2 joints of 2 7/8" tubing and tag for fill [TAC (6,164' - 6,166'), Top Perfs: 5,570', Bottom Perfs 6,164', EOT 6,205', expect fill: (6,205'-6,260') - Fill (sand) and PBTD: (6,260'-6,385') (Cement)]. Previous Job report indicated that the well was tagged at 6,220', most likely Sand. Consult w/ RE to determine if cleanout is necessary. **TAC is located below the bottom perf, so take extra care while POOH near perforation region. TOOH scanning 2 7/8" prod tubing. Tally out with tubing and LD all non-yellow band joints. Acquire additional tubing if needed to reach PBTD if a cleanout run is necessary. If not, scan out laying down all tubing. Note in WellView any drag or abnormalities while TOH. Secure well.**

CLEANING

7. If necessary, PU and RIH with 4 $\frac{3}{4}$ " MT bit on 2 $\frac{7}{8}$ " 6.5# J-55 production tubing. Tag and record fill depth. RU power swivel and clean out to 6,260' using foam/air unit if necessary (**continue to supplemental procedure and in accordance with attached SOG**).

Recover and send samples in a timely manner to Baker Chemical rep and ALCR for analysis (if possible at location). Discuss treatment recommendation with Chemical rep and ALCR. If there is evidence of sulfate scale treat well accordingly; otherwise, continue per procedure.

8. POOH with 2 $\frac{7}{8}$ " WS and bit. LD bit & BHA.

Stage – 1

SET CBP AND ADDING PERFORATIONS: - 5696'-5730'.

9. MIRU wireline unit. Install 5M lubricator and test against blind rams to 250/1000 psi for 5 minutes each. Bleed off pressure.
10. RIH with 4.625" gauge ring to 6000'. Note in WellView and contact RE if ring sets down, drags, or gets hung up inside 5 $\frac{1}{2}$ " casing.
11. RIH and set 5 $\frac{1}{2}$ " CBP at 5,880' (approx 40' above top of existing perms at 5920'). Pull up & tag CBP to ensure it released and set. Correlate to GR on Neutron-Density log dates 2/18/1994.
12. Dump bail 10' of cement on top of composite plug. POOH.
13. Fill up csg and close blind rams. Pressure test 5 $\frac{1}{2}$ " csg down to CBP to 250/500 psi for 5 min (Record csg test in WellView under Time Log and safety/inspections). Notify RE if pressure doesn't hold. If casing leaks, PU 5 $\frac{1}{2}$ " test packer on 2 $\frac{7}{8}$ " 6.5# L80 WS tbg [Utilize 2 $\frac{7}{8}$ " production tbg pulled from well if you have at least enough yellow-band to get down to CBP at 5,870' (~186 jts)] and isolate casing leak (Casing repair procedure to follow).
14. Establish radio silence and set up exclusion zone around WL unit. GIH w/ 3 $\frac{3}{8}$ " Predator with StimGun™ 80%, 5 Jspf, 30 deg phasing, 33-23-322T, 23 g c harge perforating guns and perforate from 5696'-5730'. Correlate to GR on Neutron-Density log dates 2/18/1994.

Note: Don't re-perforate the existing perforations of the Lentini 1 Federal #03 well (5,570' – 5,582').

15. POOH w/ perforating guns and verify that all shots were fired. ND Lubricator. RD and release electric line unit.
16. MIUL & strap ~165 jts 3 $\frac{1}{2}$ " 9.3# L80 tbg as frac string. Change out pipe rams to 3 $\frac{1}{2}$ ". PU 5 $\frac{1}{2}$ " testing packer on one joint 3 $\frac{1}{2}$ " tubing and set @ 25'. Test BOP pipe rams to 250/1000 psi. Note testing pressures on WellView report (Time log and safety/inspections). Release and LD packer.
17. PU/RIH with 10K 5 $\frac{1}{2}$ " AS-1X treating packer, on-off tool w/ 2.25 'F' hardened profile nipple and blast joint on 3 $\frac{1}{2}$ " 9.3# L-80 workstring. Hydrotest tubing to 8,000 psi while RIH. Set packer at 5,110' (~116' above top proposed perms at 5,226'-5,250'). Pressure test annulus to 500 psi. Nipple up 10K frac valve to BOP. Test frac valve to 8,000 psi.
18. RDMO pulling unit.

FRAC OPERATION:

Schedule Dickey Analytical to be present at Frac. (Rita Dickey) 432-553-2526

19. Prior to job, verify compatibility with Service Company of all frac fluids to reservoir fluids at temperature of 135 ° F. Send results to Production and Remedial Engineers.

20. RU flowback crew if location permits. MIRU frac equipment. Conduct safety meeting and set up an exclusion zone around stim unit & treating lines. Install pop-off valves downstream of frac crew check valve with manually operated valve below pop-off. Test all service company pressure shutdowns on each pump truck and surface lines to 8,000 psi. **Set pop-off valve to 8,000 psi. Maximum surface pumping pressure of 8,000 psi. Install pop-off on 5 1/2" x 3 1/2" annulus and set to 500 psi. Pressure annulus to 300 psi and monitor during frac job.**
21. Establish pump rate into perforations with treated water. Complete sand fracture treatment as per attached frac procedure. **Ensure that the frac supervisor, treater, and all frac crew are aware that we want to purposely create a sand plug between the 2 stages of perms (between 5,250' – 5,570' (top of existing perf). Top of sand needs to be above 5570' (between 50'-100' above 5,570' at say 5,520').**
22. Monitor & record ISIP and 5, 10, 15 min pressures, making sure the sand plug is holding.

Stage – 2

ADDING PERFORATIONS: - 5226'-5250'

23. MI & RU Baker Atlas electric line unit. Install lubricator and test against blind rams to 250/1,000 psi.
24. GIH w/ 2" gauge ring and tag the top of sand. Notify RE if sand is not between the desired intervals.
25. Establish radio silence and set up exclusion zone around WL unit. GIH w/ 1 11/16" gun 3 spf, 0 deg phasing, 6.5 g 42" EHD 35.21" TTP charge gun and perforate from 5226'-5250'. Correlate to GR on Neutron-Density log dates 2/18/1994.
26. GIH and shoot with 2" StimTube™ across new perms 5226'-5250'.
27. POOH/LD guns (check to make sure all shots fired). ND Lubricator. RD & release electric line unit.

FRAC OPERATION:

Schedule Dickey Analytical to be present at Frac. (Rita Dickey) 432-553-2526

28. MIRU frac equipment. Conduct safety meeting and set up an exclusion zone around stim unit and treating lines. Install pop-off valves downstream of frac crew check valve with manually operated valve below pop-off. Test all service company pressure shutdowns on each pump truck and surface lines to 8,000 psi. **Set pop-off valve to 8,000 psi. Maximum surface pumping pressure of 8,000 psi. Install pop-off on 5 1/2" x 3 1/2" annulus and set to 500 psi. Pressure annulus to 300 psi and monitor during frac job.**
29. Establish pump rate into perforations with treated water. Complete sand fracture treatment as per attached frac procedure. **DO NOT OVERDISPLACE (EVEN TO TOP PERF) UNDER ANY CIRCUMSTANCES**
30. Monitor & record ISIP and 5, 10, 15 min pressures.

RIG DOWN AND MOVE OUT FRAC CREW

31. RDMO frac crew. Shut in at least 24 hours to allow sand to cure and X-linked fluids to break.
32. Flow back well through choke manifold until well dies. Bring well on at 20 bbls/hr and bring up to 50 bbls/hr over the first 12 hours. Continue flowing until well is dead or returns can be put into the flowline.
33. MIRU pulling unit. Test 3 1/2" pipe rams to 500 psi against packer.
34. ND frac valve, release packer, and circulate kill weight fluid. POOH and lay down 5 1/2" packer and 3 1/2" WS.

DRILL OUT CBP AND CLEAN HOLE

35. Close Blind rams. Change 3 ½" to 2 7/8" pipe rams. Open blind rams. PU/RIH and set 5 ½" 15-17# rated packer @ ~ 25' to test 2 7/8" pipe rams to 250 psi / 1,000 psi. Release and LD packer.
36. MIRU power swivel, reverse unit and form air unit. TIH w/ 4 3/4" milltooth tri-cone bit and four 3 ½" drill collars on 2 7/8" 6.5# L-80 workstring. Clean out sand and drill out CBP and wellbore to PBTD at 6,260' (or Minimum 50' below bottom perf). **Continue to supplemental procedure and in accordance with the attached SOG**

PREP FOR RIG DOWN AND OVER TO PRODUCTION

37. TOOH to 5220' and close the pipe rams.
38. Bullhead scale inhibitor into perms per Chemical rep recommendation. Flush scale inhibitor per Chemical rep recommendation. SI to soak overnight.
39. POOH laying down workstring. Secure well.
40. PU and RIH with production tubing as per ALNC recommendation.
41. ND BOP, set TAC per ALNC recommendation and NU WH.
42. RIH with rods, weight bars and pump per ALNC recommendation. RDMO pulling unit
43. Turn well over to production (see contacts on first page of procedure).

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 3/4" MT bit, four (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 6,260' 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.



Lentini 1 Federal #03 (Brushy Canyon- Delaware) (Current Wellbore Diagram)

Eunice FMT - FLD-EAST HERRADURA BEND

Well Data				Casing and Liner Data						
Well Type	Well #	API No.	Reservoir	Size (in)	Wt (lb/ft)	Grade	Top	Bottom	MD (ft)	TOC
Oil	Lentini 1 Federal #03	30-015-27535	Brushy Canyon	8 5/8	24	K-55	12	320		Surface
First Completed	Cost Center	Chevron Ref. No.	WBS #	5 1/2	15.5	K-55	12	6,385		Surface
1-Mar-94	UCKF10100	OV7886								
Plug Back Depth (ft)	Total Depth (ft)	Production Method	Status							
(6,252-6,260) PB - Fill (sand)	6,385	Rod Pump	Online							
(6,260-6,385) PBTD - (Cement)										
Location: 1650 FNL & 400 FWL				Tubing Data						
Field	County	State	Township	Size (in)	Wt (lb/ft)	Grade	Conn	Top (ft)	Bottom	Comments
FLD-EAST HERRADURA BEND	Eddy	New Mexico	23S	2 7/8	6.5	J-55		12	MD (ft)	T&C External Upset
Range	Section	GPS (NAD27)	(Long/Lat)	2 7/8	6.5	J-55		5,460	5,464	T&C External Upset
28E	1	N32°20'14.388" W-104°2'50.064" (NAD27)		2 7/8	6.5	J-55		5,464	5,782	T&C External Upset
Wellhead and Tree Data				2 7/8	6.5	J-55		5,782	5,815	T&C External Upset
Item	Maker	Type	Size (in)	Part No.	Rating (psi)			5,815	6,162	T&C Non Upset
								6,162	6,164	T&C Non Upset Plastic ctg, TK-100
1MDBRT (ft)	1TVDBRT (ft)	Well Schematic		Description		Min ID (in)	Max OD (in)	Drift (in)	Length	Comments
12				Hole Size: 12 1/4", 8 5/8" Csg, 24#, K-55, set w/200 sks Glass C cement		8.097	9.625	7.972	308	(0-320') (Surface Casing Info.) TOC-Surface, Circ 100 sks (Cement info.)
320				2 7/8", J-55 Tbg, 6.5#, T&C External Upset		2.441	3.5	2.347	5448	Joints: 174, (12-5460) (Production Tbg Info.)
5,460				2 7/8", J-55 Tbg, 6.5#, T&C External Upset		2.441	3.5	2.347	4	Joints: 1, (5460-5464) (Production Tbg Info.)
5,464				Perforation Data						
				Perfs (ft)	Zone	Status				
				5570 - Top	Brushy Canyon	Open				(Perforation info.)
5,570				5582 - Bottom	Brushy Canyon	Open			12	Current
5,582				2 7/8", J-55 Tbg, 6.5#, T&C External Upset		2.441	3.5	2.347	318	Joints: 10, (5464-5782) (Production Tbg Info.)
5,782				2 7/8", J-55 Tbg, 6.5#, T&C External Upset		2.441	3.5	2.347	33	Joints: 1, (5782-5815) (Production Tbg Info.)
5,815				Perforation Data						
				Perfs (ft)	Zone	Status				(Perforation info.)
5,920				5920 - Top	Brushy Canyon	Open			24	Current
5,944				5944 - Bottom	Brushy Canyon	Open				
6,132				2 7/8", J-55 Tbg, 6.5#, T&C External Upset		2.441	3.5	2.347	317	Joints: 10, (5815-6132) (Production Tbg Info.)
6,148				Perforation Data						
6,164				Perfs (ft)	Zone	Status			16	(Perforation info.)
6,164				6148 - Top	Brushy Canyon	Open				Current
6,164				6164 - Bottom	Brushy Canyon	Open				
6,166				2 7/8", J-55 Tbg, 6.5#, T&C External Upset		2.441	3.5	2.347	32	Joints: 1, (6132-6164) (Production Tbg Info.)
6,167				Tubing Anchor/Catcher					2	Quantity: 1, (6164-6166) (Production Tbg Info.)
6,171				Seat Nipple - Heavy Duty					1	Quantity: 1, (6166-6167) (Production Tbg Info.)
				Perforated Nipple - N/A					4	Quantity: 1, (6167-6171) (Production Tbg Info.)
6,205				Bull Plug Mud Anchor			2.875		34	Quantity: 1, (6171-6205) (Production Tbg Info.)
6,260				(6,252-6,260) PB - Fill (sand)						
6,385				Plug Back Depth						
6,385				Hole Size: 7 7/8", 5 1/2" Csg, 15.5# K-55		4.900	5.713	4.825	6373	6,260-6,385 - (Cement) Hydril 521 (Production Csg Info.)
6,385				set w/900 sks Class C cement						TOC - Surface Circ 19 sks (Cement info.)
				TD						
Prepared by:		Prasanna Kumar Chandran		Checked By:		30-Apr-13		Version: 1		



Lentini 1 Federal #03 (Brushy Canyon- Delaware) (Proposed Wellbore Diagram)

Eunice FMT - FLD-EAST HERRADURA BEND

Well Data				Casing and Liner Data							
Well Type	Well #	API No.	Reservoir	Size (in)	Wt (lb/ft)	Grade	Top MD (ft)	Bottom MD (ft)	TVD (ft)	TOC	
Oil	Lentini 1 Federal #03	30-015-27535	Brushy Canyon	8 7/8	24	K-55	12	320		Surface	
First Completed	Cost Center	Chevron Ref. No.	WBS #	5 1/2	15.5	K-55	12	6,385		Surface	
1-Mar-94	UCKF10100	OV7886									
Plug Back Depth (ft)	Total Depth (ft)	Production Method	Status								
(6,252-6,260) PB - Fill (sand)	6,385	Rod Pump	Online								
(6,260-6,385) PBTD - (Cement)											
Location: 1650 FNL & 400 FWL				Tubing Data							
Field	County	State	Township	Size (in)	Wt (lb/ft)	Grade	Conn	Top (ft)	Bottom MD (ft)	TVD (ft)	Comments
FLD-EAST HERRADURA BEND	Eddy	New Mexico	23S								
Range	Section	GPS (NAD27)	(Long, Lat)								
28E	1	N32° 20' 14.388" W - 104° 2' 50.054" (NAD27)									
Wellhead and Tree Data											
Item	Maker	Type	Size (in)	Part No.	Rating (psi)						

MD BRT (ft)	TVD BRT (ft)	Well Schematic	Description	Min ID (in)	Max OD (in)	Drift (in)	Length	Comments	
12			Hole Size: 12 1/4", 8 5/8" Csg, 24#, K-55, set w/200 sks Class C cement	8.097	9.625	7.972	308	(0-320') TOC - Surface, Circ 100 sks (Surface Casing info.) (Cement info.)	
320									
5226			Perforation Data						(Perforation info.) Proposed
5250			Perfs (ft) Zone Status						
			5226 - Top Brushy Canyon Open				24		
			5250 - Bottom Brushy Canyon Open						
5570			Perforation Data						(Perforation info.) Current (Don't perf)
5582			Perfs (ft) Zone Status					12	
			5570 - Top Brushy Canyon Open						
			5582 - Bottom Brushy Canyon Open						
5696			Perforation Data						(Perforation info.) Proposed
5730			Perfs (ft) Zone Status					34	
			5696 - Top Brushy Canyon Open						
			5730 - Bottom Brushy Canyon Open						
5920			Perforation Data						(Perforation info.) Current
5944		Perfs (ft) Zone Status					24	2JHPF (33 Holes)	
		5920 - Top Brushy Canyon Open							
		5944 - Bottom Brushy Canyon Open							
6148		Perforation Data						(Perforation info.) Current	
6164		Perfs (ft) Zone Status					16	2JHPF (49 Holes)	
		6148 - Top Brushy Canyon Open							
		6164 - Bottom Brushy Canyon Open							
6,260		(6,252-6,260) PB - Fill (sand)							
6,385		Plug Back Depth							
6,385		Hole Size: 7 1/8", 5 1/2" Csg, 15.5# K-55		4.900	5.713	4.825	6373	Hydril 521 TOC - Surface, Circ 19 sks (Production Csg info.) (Cement info.)	
6,385		set w/900 sks Class C cement							
		TD							

The wellbore diagram is based on the most recent information regarding wellbore configuration and equipment that is filed in the Wellbore Data Office and is subject to change without notice. The wellbore diagram is not a guarantee of the wellbore configuration. The wellbore diagram is not a guarantee of the wellbore configuration. The wellbore diagram is not a guarantee of the wellbore configuration.

Prepared by:	Prasanna Kumar Chandran	Checked By:		Date:	130-Apr-13	Version:	1
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**Lentini 1 Federal 3
30-015-27535
Chevron U.S.A. Inc.
August 16 2013
Conditions of Approval**

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by November 16, 2013.

- 1. Must conduct a casing integrity test above the current perfs before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.**

NOTE: Step 11 of operator's procedure has existing perfs at 5,920', but all other documentation shows perfs at 5,570'. CIBP should be set above 5,570'

- 2. Step 13 of operator's procedure- If CIT fails notify BLM.**
3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
4. Surface disturbance beyond the originally approved pad must have prior approval.
5. Closed loop system required.
6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
7. Operator to have H2S monitoring equipment on location.
8. A minimum of a 2000 (2M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
- 9. Subsequent sundry required detailing work done and completion report. Operator to include well bore schematic of current well condition when work is complete.**

JAM 081613