Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

5.	Lease Serial No.
	NMLC064637

SUNDRY NOTICES AND	REPORTS ON WELLS
Do not use this form for prope	osals to drill or to re-enter an
abandoned well. Use form 316	0-3 (APD) for such proposals

6. If Indian, Allottee or Tribe Name			
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abandoned well	ll. Use form 3160-3 (APD) for such p	roposals.		6. If Indian, Allottee or	r Tribe Name
SUBMIT IN TRIPLICATE - Other instructions on reverse side.			7. If Unit or CA/Agreement, Name and/or No. 8910064530			
Type of Well Gas Well				, ' '	8. Well Name and No. HENSHAW DEEP UNIT 5	
Name of Operator CHESAPEAKE OPERATING	Contact: (INDY H MU MURILLO@(9. API Well No. 30-015-03913-0	0-S1
3a. Address			. (include area code))	10. Field and Pool, or l	Exploratory
OKLAHOMA CITY OK 7315/	1-0496	Ph: 575-26			HENSHAW	
OKLAHOMA CITY, OK 73154-0496 Fx: 575-391-6679 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)					11. County or Parish, and State	
Sec 23 T16S R30E NENE 660FNL 660FEL				EDDY COUNTY, NM		
000 20 1100 1100 1100 1100	51 14E 0001 EE				2001 0001411, 14141	
12. CHECK APPI	ROPRIATE BOX(ES) TO	INDICATE	NATURE OF N	NOTICE, RI	EPORT, OR OTHEF	R DATA
TYPE OF SUBMISSION			TYPE OF	F ACTION		
■ Notice of Intent	☐ Acidize	□ Dee	pen	☐ Product	ion (Start/Resume)	■ Water Shut-Off
_	☐ Alter Casing	☐ Frac	ture Treat	□ Reclam	ation	■ Well Integrity
☐ Subsequent Report	□ Casing Repair	■ New	/ Construction	□ Recomp	lete	Other Workover Operations
☐ Final Abandonment Notice	□ Change Plans	Plug	and Abandon	□ Tempor	arily Abandon	workover Operations
	☐ Convert to Injection	□ Plug	Back	■ Water D	Disposal	
CONDIT	inal inspection.) DS TO WORKOVER THE IN PROCEDURE DISCUSSED ABANDONM CACHED FOR IONS OF APPROV	ABOVE WE	LL;	OS AND WO	Accepted for NMOQ	D VERBALLY BY
	Electronic Submission #2 For CHESAPEA itted to AFMSS for process	(E OPERATI	NG INC, sent to the NY DICKERSON (ll Inform btior he Carlsbad on 11/13/2013	rSystem 3 (14JLD1544SE)	
Name(Printed/Typed) CINDY H	MURILLO		Title PERMI	TTING SPE	CIALIST	
Signature (Electronic S	Submission)		Date 11/12/2	013	land Some distrib	
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	-	•
_Approved_By_EDWARD_FERNAN	DE <u>Z</u>		TitlePETROLE	UM ENGINI	ER	Date 12/16/2013
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 Ca			Office Carlsba	d		
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent					ike to any department or	agency of the United

11/5/2013 Henshaw Deep Unit #5 Re-completion

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: Current TOC behind 4 1/2" casing is 4,638'

Verify wellhead and connections are in good condition and are rated to a minimum of 5,000 psi

1 RU pump truck. Pressure test csg to 5,000 psi.

See COA

2 If casing holds, obtain a 30 minute chart for submittal to BLM.

3 Nipple up 5,000 psi Frac Valve assembly. Test to 5,000 psi

SEE ATTACHED FOR CONDITIONS OF APPROVAL

- 4 RU Gray wireline. Test lubricator on rack to 1000 psi. NU Lubricator. PU guage ring for 4-1/2" 11.6# csg. RIH to 5,925'. POOH
- 5 PU/RIH w/ GR + perforating guns. Correlate to GR on Neutron-Density log . Perforate csg @ (5,788' 5,812') w/ 2 spf and 90 degree phasing (48 total holes). POOH/LD guns (check to make sure all shots fired). ND Lubricator. RD Gray
- 6 RU Petroplex. Titrate acids and verify concentration (HCI ±1.5%). Load BS w/ BW, set pop-off to 500 psi. Spearhead 1,000 gal 15% NEFE HCL down to perfs (5,000 max psi). Over displace to bottom perf by 2 bbls w/ biocide treated fresh water (record rate and pressures). RD Petroplex

7 Prep for sand frac job on xx.

8 MIRU HAL - Hold JSA. Test iron to 5000 psi

See COA

- 9 Pump stage 1 of sand frac w/ 1,000 gal 15% HCL + 50,000 lb 20/40 + 10,000 lb 20/40 CRC sand @ 30 bpm, max psi = 4500. Record ISIP, 5, 10, & 15 min. pressures.
- 10 PU/RIH w/ GR + 4-1/2" CBP. Set 1st CBP @ 5,500'. POOH
- 11 PU/RIH w/ 2nd 4-1/2" CBP + perf gun. Set CBP @ 4,650'. Punch holes for cement job @ 4,570'. POOH/LD guns (check to make sure all shots fired). ND lubricator. RDMO frac spread and wireline
- ** Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.
- 12 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 cut brine fluid (8.6 ppg).
- 13 MIRU pulling unit and related equipment.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

- 13 ND Frac Valve. NU 7-1/16" 5,000 psi BOP with 2-3/8" pipe rams over blind rams.
- 14 PU 4-1/2" tension pkr on one jt 2-3/8" L-80tbg and set @ ~25'. Test BOP rams to 250/500 psi.
- 15 Release packer. Run in hole with 4 1/2" packer to +/- 4,300'. Set pkr 270' above punch holes @ 4,570'

16 Establish injection rate and pressure. Verify good circulation to surface.

See COA

- 17 MIRU service company. Cement casing with 1,650 sx class C neat mixed at 14.8 ppg. (1.32 yield)
- 18 Displace cement to +/- 4,400' with 18 bbls fresh water.
- 19 Shut well in for a minimum of 12 hours.
- 20 Release packer. Pull out of hole with tubing and packer.
- PU/TIH w/ 3-3/4" MT bit + 3-1/8" DC's + 2-3/8" L-80 tbg & drillout/cleanout through CBP @ 4,650'. Circ well clean
- 22 POOH w/ 2-3/8" tbg & LD bit + DC's.

23 Move in and rig up wireline. Run CCL/CBL log from 4,700' to surface.

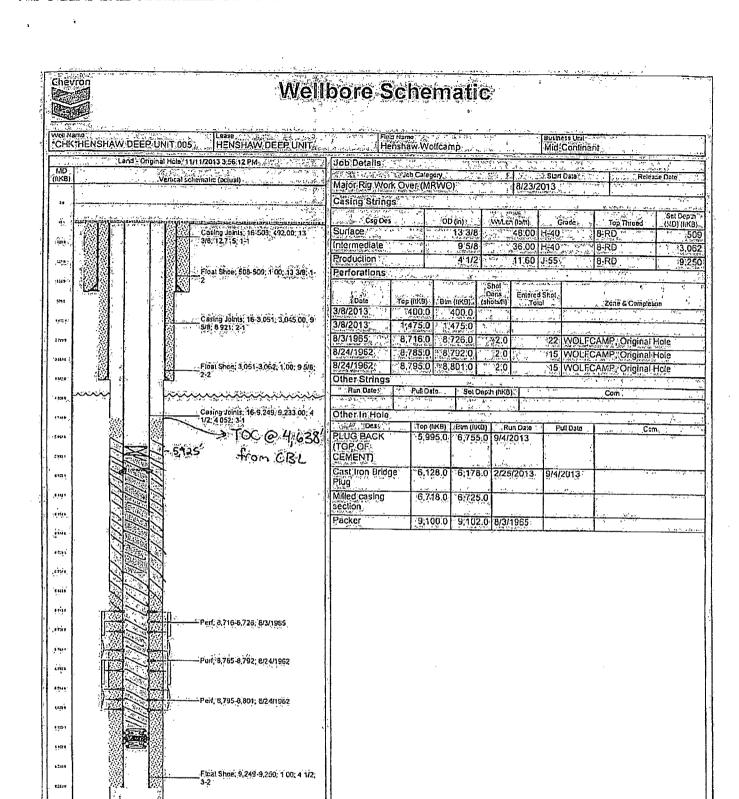


- 24 Nipple down BOP equipment. Nipple up and test 5,000 psi Frac valve.
- 25 Rig down pulling unit and equipment.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

- 26 MIRU HAL Hold JSA. Test iron to 5000 psi. NU Lubricator. Test lubricator on rack to 1000 psi
- 27 PU/RIH w/ GR + perforating guns. Perforate csg @ (5,095-98') (5,054-57') (5,045-47') (4,967-70') (4,906-09') (4,849-51') (4,836-39') (4,775-80') (4,730-35') (4,551-53') (4,536-39') w/ 3 spf and 120 degree phasing. POOH/LD guns (check to make sure all shots fired). ND Lubricator. RD Gray
- 28 Pump stage 2 of sand frac w/ 1,000 gal 15% HCL + 100,000 lb 20/40 + 20,000 lb 20/40 CRC sand @ 30 bpm, max psi = 4500.
- 29 PU/RIH w/ GR + perforating guns + 4-1/2" "flow-through" CBP. Set CBP @ 4,525'. Perforate csg @ (4,475-85') (4,445-55') (4,410-20') w/ 2 spf and 90 degree phasing. POOH/LD guns (check to make sure all shots fired). ND Lubricator. RD Gray
- See COA

 30 Pump stage 3 of sand frac w/ 1,000 gal 15% HCL + 100,000 lb 20/40 + 20,000 lb 20/40 CRC sand @ 30 bpm,
 max psi = 4500.
- 31 Record ISIP, 5, 10, & 15 min. pressures. RDMO HAL
- 32 RU flowback equipemnt. Stake lines w/ steel hobbles. Flow back well until it dies.
- 33 MIRU. RD frac valve and frac stack
- 34 PU/TIH w/ 3-3/4" MT bit + 3-1/8" DC's + 2-3/8" L-80 tbg & drillout/cleanout to 5,925. Circ well clean
- 35 POOH w/ 2-3/8" tbg & LD bit + DC's
- 36 (Discuss production equipment setting with ALCR prior to running) PU production equipment & TIH w/ 2-3/8" 4.7# L-80 production tbg down to 5,820. Set TAC @ 4,350'. ND BOP. NU WH. TIH w/ rods and pump per ALCR. Hang well on. RDMO
- 37 Turn well over to operations



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Report Printed: 11/11/2013

Chevron Proposed Well	bore Schematic
Well Name Lease CHK-HENSHAW DEER UNIT 005 HENSHAW DEER UNIT	Field Name Business Unit Henshaw Wolfcamp Mid-Continent
MD/ (fiKB) (Vertical Schamatic (actual)	Job Details Job Category Stan Date Release Date Major Rig Work Over (MRWO) 8/23/2013
	Casing Strings
is a major system of the syste	Csp Des 33 OO (m) Control (brit) Grade Gra
Casing Joints; 18-3:061; 3:045:00; 9:	3/8/2013 400.0 400.0 7 3/8/2013 1475:0 1475.0 8726.0 2:0 22 WOLFCAMP, Original Hole
Float Shoe: 3.061;3.062; 1.00; 9.5/8;	8/24/1962 38/7850 8/792.0 2.0 15 WOLFCAMP: Original Hole
Casing Joints, 16-9-249, 0,233.00, 4	Other:ImiHole:
5925 - 5925 4410 - 5,0,88	GOZIOF: CEMENT): Cast Iron Bridge 6:128.0 6:178:0 2/25/2013 9/4/2013
£1981	Milledicasing 6:718:0 6.725:0 9:001001 9:102:0 8/3/1965
(196) (196) (196) (196)	The state of the s
Pert 8:716-8,726; 8:311965:	
Peri, 9,705:6,792;9/24/1962	
Port; 8,795-8,801; 8/24/1982	
Float Shoe(9,249-9,250; 1,00:4-1/2; 3-2	
(9,877 t) (9,877 t)	
(1) (1) (2) (2) (3) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	
,9191	

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Henshaw Deep Unit #5 (30-015-03913) Chevron USA Inc Sundry dated November 12, 2013 Conditions of Approval

Work to be completed by Febuary 28, 2013.

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

- 1. Must conduct a casing integrity test (CIT) for 30 minutes before any perforating or fracturing can be done. Make arrangements 24 hours before the CIT for BLM to witness. In Eddy County email Paul R. Swartz pswartz@blm.gov and/or phone 575-200-7902, if there is no response, 575-361-2822. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure.
- 2. If CIT <u>does not</u> fail, work is approved with the following conditions of approval.
- 3. Surface disturbance beyond the originally approved pad must have prior approval.
- 4. Closed loop system required.
- 5. 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 crewintensive operations.
- 6. Operator to have H2S monitoring equipment on location.
- 7. A minimum of a 3000 (3M) 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 (3M 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.

- 8. All pressure tests shall be document on chart recorder the pressure test on a calibrated recorder chart shall register within 30 to 85 per cent of its full range. Greater than 10% pressure leak off will be viewed as a failed CIT. Less than 10% pressure leak off will be evaluated site specifically.
- 9. <u>Stage1 frac job</u>: the frac crew and Chevron personnel shall actively monitor and record the 9-5/8" x 4-1/2" annulus pressure during the frac job. During the frac job, if pressure increases above what is considered normal; the frac job shall be terminated immediately. A copy of the service company records monitoring the annulus shall be submitted to the BLM.
- 10. <u>Procedure step number 17</u>: Cement shall circulate to surface. Make arrangements 24 hours before the cement job for BLM to witness. In Eddy County email Paul R. Swartz pswartz@blm.gov and/or phone 575-200-7902, if there is no response, 575-361-2822.
- 11. <u>Procedure step number 23</u>: Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 4700' to surface. The CBL may be attached to a pswartz@blm.gov email. The CFO BLM on call engineer may be reached at 575-706-2779. This CBL shall be evaluated by the BLM before proceeding with the recompletion from 4536' to 5098'.
- 12. If CBL shows adequate cement bond and zonal isolation, frac stage 2 and 3 is approved. Chevron shall continue to actively monitor and record the 9-5/8" x 4-1/2" annulus pressure during the frac job as per step 9 above.
- 13. Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227 or Bob Ballard

 bballard@blm.gov> 575.234.5973
- 14. Subsequent sundry required detailing work done and completion report for the new formation. Operator to include well bore schematic of current well condition when work is complete.

EGF 121613