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MAR 17 2010

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 17 2010

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

EC

HOBBSOCD

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 reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. SUNBURST SHOGRIN FEDERAL 1
2. Name of Operator CHESAPEAKE OPERATING, INC. Contact: LINDA GOOD E-Mail: linda.good@chk.com	9. API Well No. 30-025-29543
3a. Address P.O. BOX 18496 OKLAHOMA CITY, OK 73154-0496	10. Field and Pool, or Exploratory LEA; Bone Spring
3b. Phone No. (include area code) Ph: 405-935-4275	11. County or Parish, and State LEA COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T19S R34E NWSE 1860FSL 1980FEL	

## 12. CHECK 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

CHESAPEAKE, RESPECTFULLY, REQUESTS, PERMISSION TO RECOMPLETE THIS WELL PER THE FOLLOWING PROCEDURE:

Hold PJSA prior to beginning work each morning and as required for specific operations.

1. Prep location. Check anchors and clean area for workover.

2. Set (3), 500 barrel, steam cleaned frac tanks. Water requirement is 1,014 bbls. With 10% overage the requirement is 1,115 bbls.

3. Rack and tally Oil Dog work string consisting of 392 joints of 2-7/8, 6.5#, J-55 tubing.

4. NU 7-1/16", 5K, Full Opening, Manual Frac Valve. Run test plug. Test to 4,200# (5,320 psi)

\* Set CIBP within 50'  
of top of Wolfcamp  
@ 10908. Cap w/ 35'  
cmt.\* CIBP @ 10,250' cap  
w/ 35' cmt.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #82511 verified by the BLM Well Information System  
For CHESAPEAKE OPERATING, INC., sent to the Hobbs

Name (Printed/Typed) LINDA GOOD	Title SR. REGULATORY COMPLIANCE SPEC
Signature (Electronic Submission)	Date 03/10/2010

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>James G. Lewis</u>	POOH w/tubing and perforating guns and verify all shots fired. RDMO Wireline.	all shots fired. 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 <u>SEAS</u> <u>CAD</u>	<u>PETROLEUM ENGINEER</u> <u>KR</u> 3-15-10

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.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

**Additional data for EC transaction #82511 that would not fit on the form**

**32. Additional remarks, continued**

80% = 4,256 psi). Retrieve test plug.

5. MIRU workover rig. ND WH. POH w/pump and rods. NU 5K BOPs and test. POH w/production tubing (laying down).

6. RIH w/ 4-3/4" bit, 6 ? 3-1/2" DCs and scraper to 11,720'. Clean out and circulate the 5-1/2" casing with the following fluid. Pump sweeps as necessary to clean hole. POOH w/ 4-3/4" bit and 2-7/8" Oil Dog workstring (standing back).

Fluid should contain per 1,000 gallons (Fresh Water Base):

Additive Function

1 Gallon L64 2% KCL

1 Gallon F105 Surfactant

7. RIH w/5-1/2" CIBP and set @ +/- 10,250' and test casing to 4,200# (5,320 psi \* 80% = 4,256 psi) for 15 minutes to test casing integrity. The existing Bone Springs and Wolfcamp formations are going to be abandoned.

WC Top 10708  
SS Top 10570

8. NU 7-1/16", 5K, Full Opening, Hydraulic Frac Valve. NU 7-1/16", 5K, Cross with 2-9/16", 5K, Wing Valves. Run test plug. Test to 4,000#. Retrieve test plug.

9. Install lubricator. MU 4" HSC Perforating Guns loaded 2 spf w/120 degree phasing (23 g minimum charges) and RIH. Correlate to the attached log dated 2/5/1986 and perforate the 2nd Bone Springs as follows:

Formation Interval SPF Total Shots

2nd Bone Springs 10,057' ? 10,047' 2 spf 22

2nd Bone Springs 10,045' ? 10,043' 2 spf 6

2nd Bone Springs 10,040' ? 10,038' 2 spf 6

2nd Bone Springs 10,036' ? 10,033' 2 spf 8

2nd Bone Springs 10,027' ? 10,024' 2 spf 8

2nd Bone Springs 10,021' ? 10,018' 2 spf 8

2nd Bone Springs 10,012' ? 10,010' 2 spf 6

2nd Bone Springs 10,003' ? 10,000' 2 spf 8

Total 57' 72

POOH w/tubing and perforating guns and verify all shots fired. RDMO Wireline.

10. RD Lubricator. RU Cudd and pump a total of 5,000 gallons of 15% NEFE acid dropping 108 perf balls throughout the job. Flush acid to bottom perf w/2% KCL. SI and wait 1 hour. See attached acid procedure.

Stg # Fluid Stg. Type Cln. Vol. (bbls) Cln. Vol. (gals) Ttl. Rate (bpm) Proppant Cum. Prop. (lbs) Conc. (lb/gal)

1 15% HCL Acid 119.0 5,000 4.0 Ball Sealers 108 0.02

2 2% KCL Water Flush 607 2,550 4.0 108 0.00

11. RIH w/4-3/4" bit, 6 ? 3-1/2" DCs and scraper to PBTD @ 11,720' to clear perfs.

12. RU Cudd and frac 2nd Bone Springs perfs 10,000' ? 10,057' (72 holes). Frac per attached procedure. (5-1/2" 17# S-95, J55 & N80 Internal Yield = 5,320 psi) Record ISIP-5-10-15 min pressures. RDMO frac equipment.

Stg # Fluid Stg. Type Cln. Vol. (bbls) Cln. Vol. (gals) Ttl. Rate (bpm) Proppant Cum. Prop. (lbs) Conc. (lb/gal)

1 B Frac 25 Pad 238.1 10,000 30.0 0 0.00

2 B Frac 25 Slurry 71.4 3,000

30.0 20/40 White 3,000 1.00

3 B Frac 25 Slurry 95.2 4,000 30.0 20/40 White 11,000 2.00

4 B Frac 25 Slurry 95.2 4,000 30.0 20/40 White 23,000 3.00

5 B Frac 25 Slurry 95.2 4,000 30.0 20/40 White 39,000 4.00

6 B Frac 25 Slurry 71.4 3,000 30.0 20/40 White 54,000 5.00

7 B Frac 25 Slurry 47.6 2,000 30.0 20/40 Super LC 64,000 5.00

8 Slick Water Flush Flush 238.7 10,025 30.0 64,000 0.00

13. PU 4-3/4" bit, 6 ? 3-1/2" DCs and work string and TIH to clean out to CIBP @ 10,250'. Circulate hole clean with 2% KCL water. POH.

**32. Additional remarks, continued**

14. TIH with production tubing and SN. Set seat nipple at 10,107' (below perms).

15. ND BOP. NU WH. TIH with pump and rods. Fill tubing and space out pump accordingly. Verify pump action. Place well on test.

16. RDMO workover rig. Clean location.

(HK PN 890795)

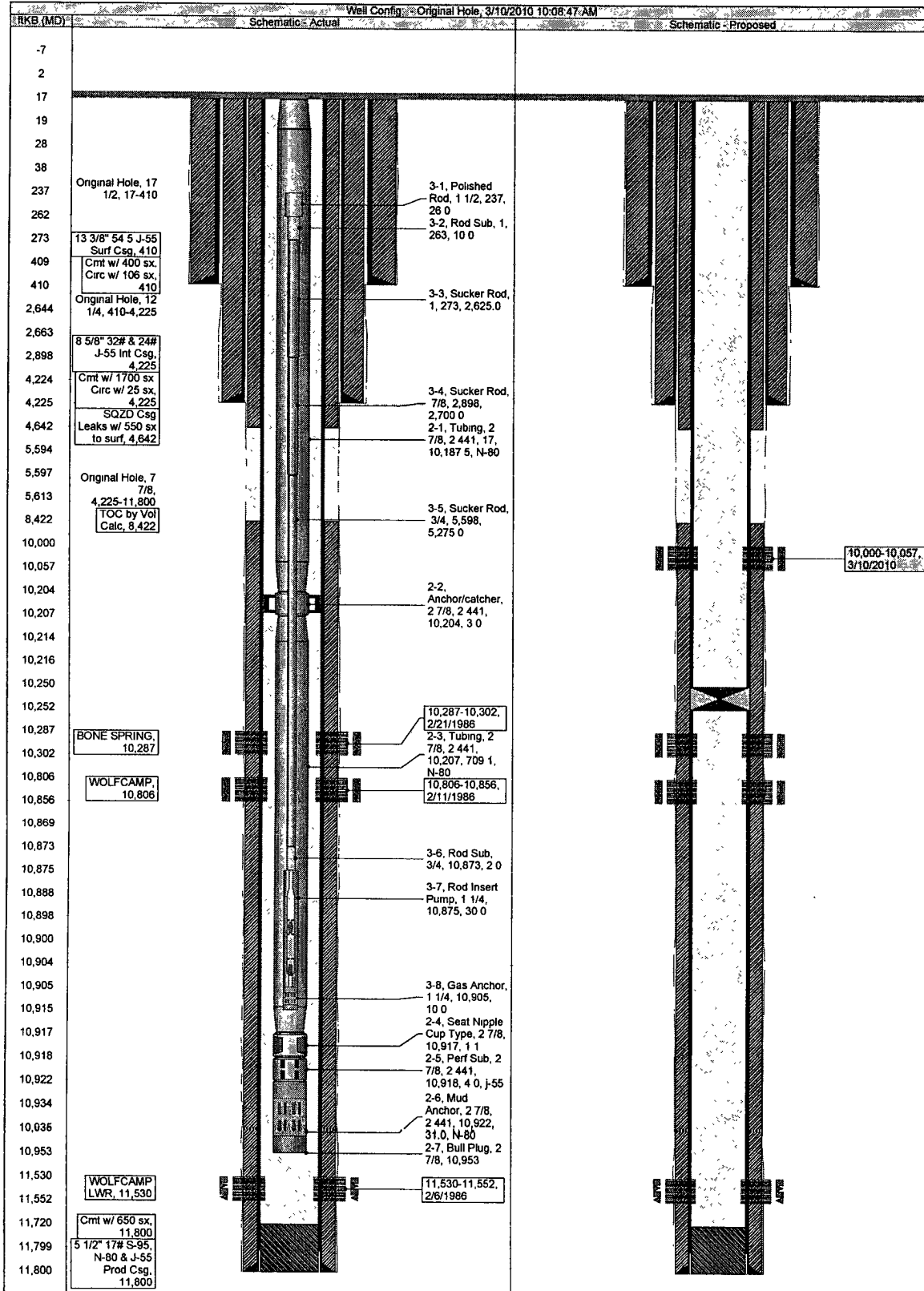


# Proposal for Workover

SUNBURST SHOGRIN FED 1

Field: LEA BONE SPRING  
County: LEA  
State: NEW MEXICO  
Location: SEC 22, 19S-34E, 1860 FSL & 1980 FEL  
Elevation: GL 3,768.00 KB 3,785.00  
KB Height: 17.00

Spud Date: 12/28/1985  
Initial Compl. Date:  
API #: 3002529543  
CHK Property #: 890795  
1st Prod Date: 2/28/1986  
PBDT: Original Hole - 11720.0  
TD: 11,800.0





**Sunburst Shogrin Fed #1  
2<sup>nd</sup> Bone Springs Sand Recompletion  
Lea County, NM**

**Current Wellbore Information**

TD: 11,800' PBD: 11,720'

**Casing Data**

Casing	OD	Weight	Grade	Depth Set	TOC
Surface	13-3/8"	54#	J-55	410'	Surface
Intermediate	8-5/8"	32# & 24#	J-55	4,225'	Surface
Production	5-1/2"	17#	S-95, N-80 & J-55	11,800'	8,422'

**Pressure and Dimensional Data**

Size	Weight	Grade	Burst	80% Burst	Collapse	Drift
13-3/8"	54#	J-55	2,730	2,184	1,130	12.459
8-5/8"	24#	J-55	2,950	2,360	1,370	7.972
8-5/8"	32#	J-55	3,930	3,144	2,530	7.796
5-1/2"	17#	S-95	9,190	7,352	8,580	4.767
5-1/2"	17#	N-80	7,740	6,192	6,280	4.767
5-1/2"	17#	J-55	5,320	4,256	4,910	4.767

**Existing Perforations**

Perfs	Top Perf	Bottom Perf	Status	Total Holes
Bone Spring	10,287'	10,302'	Producing	15
Wolfcamp	10,806'	10,856'	Producing	17
Wolfcamp Lwr	11,530'	11,552'	Not Producing	22

GL: 3,768' KB: 17' KB Height: 3,785'

**Procedure**

Hold PJSA prior to beginning work each morning and as required for specific operations.

1. Prep location. Check anchors and clean area for workover.
2. Set (3), 500 barrel, steam cleaned frac tanks. Water requirement is 1,014 bbls. With 10% overage the requirement is 1,115 bbls.
3. Rack and tally Oil Dog work string consisting of 392 joints of 2-7/8, 6.5#, J-55 tubing.
4. NU 7-1/16", 5K, Full Opening, Manual Frac Valve. Run test plug. Test to 4,200# (5,320 psi \* 80% = 4,256 psi). Retrieve test plug.
5. MIRU workover rig. ND WH. POH w/ pump and rods. NU 5K BOPs and test. POH w/ production tubing (laying down).
6. RIH w/ 4-3/4" bit, 6 – 3-1/2" DCs and scraper to 11,720'. Clean out and circulate the 5-1/2" casing with the following fluid. Pump sweeps as necessary to clean hole. POOH w/ 4-3/4" bit and 2-7/8" Oil Dog workstring (standing back).

Fluid should contain per 1,000 gallons (**Fresh Water Base**):

Additive	Function
1 Gallon L64	2% KCL
1 Gallon F105	Surfactant

7. RIH w/ 5-1/2" CIBP and set @ +/- 10,250' and test casing to 4,200# (5,320 psi \* 80% = 4,256 psi) for 15 minutes to test casing integrity. The existing Bone Springs and Wolfcamp formations are going to be abandoned.
8. NU 7-1/16", 5K, Full Opening, Hydraulic Frac Valve. NU 7-1/16", 5K, Cross with 2-9/16", 5K, Wing Valves. Run test plug. Test to 4,000#. Retrieve test plug.
9. Install lubricator. MU 4" HSC Perforating Guns loaded 2 spf w/ 120 degree phasing (23 g minimum charges) and RIH. Correlate to the attached log dated 2/5/1986 and perforate the 2<sup>nd</sup> Bone Springs as follows:

Formation	Interval	SPF	Total Shots
2 <sup>nd</sup> Bone Springs	10,057' – 10,047'	2 spf	22
2 <sup>nd</sup> Bone Springs	10,045' – 10,043'	2 spf	6
2 <sup>nd</sup> Bone Springs	10,040' – 10,038'	2 spf	6
2 <sup>nd</sup> Bone Springs	10,036' – 10,033'	2 spf	8
2 <sup>nd</sup> Bone Springs	10,027' – 10,024'	2 spf	8
2 <sup>nd</sup> Bone Springs	10,021' – 10,018'	2 spf	8
2 <sup>nd</sup> Bone Springs	10,012' – 10,010'	2 spf	6
2 <sup>nd</sup> Bone Springs	10,003' – 10,000'	2 spf	8
Total	57		72

POOH w/ tubing and perforating guns and verify all shots fired. RDMO Wireline.

10. RD Lubricator. RU Cudd and pump a total of 5,000 gallons of 15% NEFE acid dropping 108 perf balls throughout the job. Flush acid to bottom perf w/ 2% KCL. SI and wait 1 hour. See attached acid procedure.

Stg #	Fluid	Stg. Type	Cin. Vol. (bbls)	Cin. Vol. (gals)	Ttl. Rate (bpm)	Proppant	Cum. Prop. (lbs)	Conc. (lb/gal)
1	15% HCL	Acid	119.0	5,000	4.0	Ball Sealers	108	0.02
2	2% KCL Water	Flush	607	2,550	4.0		108	0.00

11. RIH w/ 4-3/4" bit, 6 – 3-1/2" DCs and scraper to PBTD @ 11,720' to clear perfs.
12. RU Cudd and frac 2<sup>nd</sup> Bone Springs perfs 10,000' – 10,057' (72 holes). Frac per attached procedure. (5-1/2" 17# S-95, J55 & N80 Internal Yield = 5,320 psi) Record ISIP-5-10-15 min pressures. RDMO frac equipment.

Stg #	Fluid	Stg. Type	Cin. Vol. (bbls)	Cin. Vol. (gals)	Ttl. Rate (bpm)	Proppant	Cum. Prop. (lbs)	Conc. (lb/gal)
1	B Frac 25	Pad	238.1	10,000	30.0		0	0.00
2	B Frac 25	Slurry	71.4	3,000	30.0	20/40 White	3,000	1.00
3	B Frac 25	Slurry	95.2	4,000	30.0	20/40 White	11,000	2.00
4	B Frac 25	Slurry	95.2	4,000	30.0	20/40 White	23,000	3.00
5	B Frac 25	Slurry	95.2	4,000	30.0	20/40 White	39,000	4.00
6	B Frac 25	Slurry	71.4	3,000	30.0	20/40 White	54,000	5.00
7	B Frac 25	Slurry	47.6	2,000	30.0	20/40 Super LC	64,000	5.00
8	Slick Water Flush	Flush	238.7	10,025	30.0		64,000	0.00

13. PU 4-3/4" bit, 6 – 3-1/2" DCs and work string and TIH to clean out to CIBP @ 10,250'. Circulate hole clean with 2% KCL water. POH.
14. TIH with production tubing and SN. Set seat nipple at 10,107' (below perfs).
15. ND BOP. NU WH. TIH with pump and rods. Fill tubing and space out pump accordingly. Verify pump action. Place well on test.
16. RDMO workover rig. Clean location.

**Contacts**

**Production Foreman**

Ralph Skinner

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Cell: 575-441-4921

**Asset Manager**

Kim Henderson

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Cell: 405-312-1840