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Form 3160-5  
(September 2001)

FEB 03 2009

HOBBSOCD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No 1004-0135  
Expires: January 31, 2004

## 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  
☒ Oil Well ☐ Gas Well ☐ Other ☒

2. Name of Operator **Edge Petroleum Operating Company, Inc.,** ☒

3a. Address  
**1301 Travis, Suite 2000 Houston, TX 44002**

3b. Phone No. (include area code)  
**713-335-9808**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**487' FSL & 1980' FWL  
Sec/ 27, T- 19S, R- 32E** **N**

5. Lease Serial No.  
**NM 12412**

6. If Indian, Allottee or Tribe Name  
**N/A**

7. If Unit or CA/Agreement, Name and/or No.  
**N/A**

8. Well Name and No.  
**Southeast Lusk 27 #1** ☒

9. API Well No.  
**30-025-38678** ☒

10. Field and Pool, or Exploratory Area  
**Lusk, Bone Springs, South** ☒

11. County or Parish, State  
**Lea Co. NM** ☒

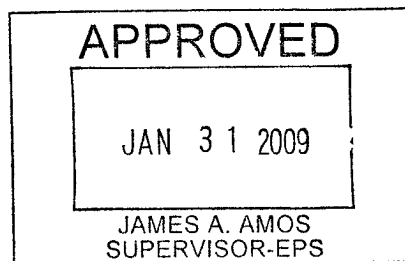
## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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 checked="" 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.)

### Recompletion of Cherry Canyon

Edge Petroleum will be recompleting the Cherry Canyon zone for said well starting 2-2-2009. A CIBP was set @ 6000'. The Cherry Canyon will be perforated and tested. A recompletion procedure and WBD is attached.



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

**Angela Lightner angela@rkford.com**

Title **Consultant 432-682-0440 office**

Signature

*Angela Lightner*

Date

**01/21/2009**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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.

PETROLEUM ENGINEER

Title

Date

**FEB 04 2009**

Office

*KZ*

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)



**SE Lusk 27 Federal #1  
API# 30-025-38678  
Re-Completion Procedure to Add Cherry Canyon Perfs  
South Lusk Field  
Lea County, New Mexico**

**January 19, 2009**

**General Information**

**AFE Number:** 29RC002  
**Gross AFE Amt:** \$68,400  
**WI / NRI:** 33.333%/25%  
**Partners:** 58.333% Pure Energy Group Incorporated  
8.333% Chisos LTD

**Surface Location:** 487' FSL & 1980' FWL  
Section 27, Township 19-S, Range 32-E  
LEA COUNTY, NEW MEXICO

**EDGE REP WILL FAX/EMAIL THE FOLLOWING REPORTS TO:**

[edge.reports@edgepet.com](mailto:edge.reports@edgepet.com)  
[iserrano@edgepet.com](mailto:iserrano@edgepet.com)  
[dpittman@edgepet.com](mailto:dpittman@edgepet.com)  
[sueanncraddock@zianet.com](mailto:sueanncraddock@zianet.com)  
[bryani@teai.com](mailto:bryani@teai.com)  
[irisley@puregp.com](mailto:irisley@puregp.com)  
[aztecenergy@comcast.net](mailto:aztecenergy@comcast.net)  
[earl@sebringexploration.com](mailto:earl@sebringexploration.com)  
[mhanagan@dfn.com](mailto:mhanagan@dfn.com)  
[angela@rkford.com](mailto:angela@rkford.com)  
[sandy\\_traughber@eogresources.com](mailto:sandy_traughber@eogresources.com)

1. Daily Workover and Completion Report – daily
2. Daily Cost Record - daily
3. Complete Well Equipment Inventory – end of job

**Reports are to be e-mailed to the office daily before 7:00 AM** and then followed by a phone call to the office no later than 8:00 AM. Office will also be called by 4:00 PM each day. Weekend calling schedule will be assigned on Fridays.

**EDGE PETROLEUM OFFICE:** 713-650-8960 **FAX:** 713-650-6493

**Well Recap:**

- 8/21/08: Spudded well and drilled to 7,800'. Ran open hole logs, side-wall cores, and 5-1/2" casing (10/2/08).
- 10/23/08: Perf'd 6,562 – 6,580'. Swab tested, acidized with 1000 gals 7% KCL. No production. WL set RBP @ 6460'.

- 10/28/08: Perf'd 6,363 – 6,366' and 6,373 – 6,377'. Broke down with 10 bbls 3% KCl. Swab test. No production.
- 10/29/08: Add perfs 6396 – 6400'. No reaction. Swab well down. Set RBP @ 6000'.
- 10/31/08: Perf'd 5,824 – 5,836'. Broke down with 3% KCl. Limited entry with some oil. Pulled RBP. Set CIBP @ 6000'. Tested- ok. Fraced with 659 bbls and 32,885# sand. Flowed back and swab test. Placed on pump 11/24/08. Production curve is attached.

**Objective:**

Plug back Brushy Canyon. Perforate, swab, and test Cherry Canyon. Place well on production to test.

**Elevations:**

GL-MSL: 3,570'  
RKB-MSL: 3,588'  
RKB-GL: 18'

**Completion Fluid:**

Current: None. Will use 3% KCl to kill well. ,

**Current Reservoir Data:**

**Current Perfs (MD): Brushy Canyon**

6562' - 6580' (18')  
4 JSPF (72 holes) w/ 3-1/8" csg gun 60 deg phasing. Set RBP @ 6460'.

6363' - 6366' ( 3') & 6,373 – 6377' (4')  
4 JSPF (total 28 holes) w/ 3-1/8" csg gun 60 deg phasing.

6396'-6400' (4'). Added these perfs to above perfs after BD perfs 6363...6377'  
4 JSPF (total 12 holes) w/ 2-1/8" csg gun 60 deg phasing. No reaction.

**Note:** Above perfs are plugged back with CIBP @ 6000'.

5824'-5836' (12')  
4 JSPF (48 holes) w/ 3-3/8" csg gun 60 deg phasing.

Current test: 21 BOPD / 33 MCFD / 11 BWPD on sucker rod lift.

**Proposed Perfs (MD): Cherry Canyon**

4,878 – 4,888' (10')  
Proposed to shoot 4 JSPF w/ 3-3/8" csg gun 60 deg phasing.  
Proposed to swab test and breakdown and re-test.

BHP: 2114 psi (8.33 ppg gradient)  
BHT: 123° F (est temp from max log temp)  
Deviation: "Straight" hole

**Casing Data:**

String	Description	Depth (MD/TVD)	Burst (psi)	Collapse (psi)
Conductor	20"	40'		
Surface	13-3/8", 54.5#, J-55, STC	920'	2,730	1,130
Intermediate	10-3/4", 45.5#, J-55, BTC	3,000'	3,580	2,090
Intermediate II	7-5/8", 26.4#, HCP-110, LTC	4,258'	8,280	4,850
Prod. Casing	5-1/2", 17#, P-110, Ultra-FJ	7,795'	10,640	7,480

**Dimensions & Capacities:**

String	ID	Drift ID	Capacity	
5-1/2" Production Casing	4.892"	4.767"	0.02325 bbl/ft	43.0108 ft/bbl
2-7/8" 6.5# J-55 8rd Tubing	2.441"	2.347"	0.00579 bbl/ft	172.7116 ft/bbl

**Procedure:**

1. Check the pressure on all annuli before starting any work. Record all pressures and include daily pressure readings on every morning report. Bleed off all pressures prior to performing any work.

**NOTE: EDGE company rep will be responsible for calling out all rental equipment and will shut-down operations before encountering anything that might jeopardize the safety of any personnel, equipment, or the well itself.**

2. MIRU workover/pulling unit. RD rod string from pumping unit.
3. Unseat pump and POH and LD rods and pump. Lay rods on boards and use care when placing on the boards. Send pump to pump shop.
4. Load hole w/ 3% KCl water as needed. ND wellhead and NU BOPs.
5. Release tbg anchor and POH with tbg. Stand tbg in derrick. Sned anchor in for re-dress.
6. RU electricline and make GR/JB run to 5200'. POH. RIH with wireline set rental RBP and set between csg collars at +/-5175'. POH with electricline.
7. Dump 1 sxs sand on top of RBP. Test plug and csg to 5000 psi.
8. RIH with GR/CCL and 3-3/8" casing gun loaded 4 JSPF, 0.32" minimum hole diameter, maximum penetration shots, and 60° phasing. Correlate on depth using the original open hole log (Halliburton, 9/30/08, Dual Spaced Neutron/Spectral Density/GR Log), and perforate the Cherry Canyon as follows:  
  
**4878' – 4888' (10'). Total 40 holes.**
9. Note pressure after perforating and record on morning report.
10. TIH w/ packer & 2-7/8" 6.5# J-55 8rd tubing. Set packer at +/-4780'.
11. Swab well in and test. Check with office before proceeding. Should a breakdown treatment be necessary, load hole with 3% KCl water and breakdown with 10 bbls 3% KCl water. Continue to swab and test.
12. If well will not flow, but results from swab tests are encouraging, pull packer and tbg. RIH with SN, tbg anchor catcher and tbg. Set below perfs @ 4950'. RIH with pump and rods. Start well pumping and test.

South Lusk Field  
Lea County, NM  
SE Lusk 27 Federal #1  
WO Procedure to Add Cherry Canyon

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AFE: 29RC002  
Last Date Revised: 01/19/09

**EDGE CONTACT LIST:**

		<b>Phone</b>	<b>Pager/Cellular</b>
Dan Pittman	Production Supt	713-335-9829 (office) 281-973-1373 (home)	713-614-3378 (cell)
Jesse Allen	Prod/Ops Manager	713-427-8892 (office) 281-398-5040 (home)	281-814-7084 (cell)

**EDGE PETROLEUM CORPORATION**  
**PROPOSED SCHEMATIC**  
 API# 30-025-38678

DATE: 1/19/09

LEASE: LUSK 27 FED  
 WELL: No. 1  
 AREA: LEA CO., NM  
 FIELD: Lusk South Bone Springs

SURF LOC: SECTION 27, T19S, R32E  
 BHL: STRAIGHT HOLE  
 X:  
 Y:

ENGR: Jesse Allen  
 RIG:  
 ELEV. 3688.9  
 KB: 3684

DIRECTIONAL	OPEN HOLE LOGGING	SANDS/ MARKERS	DEPTH		CASING PROFILE	HOLE SIZE	CASING DETAILS	MUD WT. & TYPE	MAXIMUM DOGLEG SEVERITY
			TVD	MD					
			40'	40'		PRESET	20" Conductor		
		Anhydrite	920'	920'		17 1/2"	13 3/8", 64.6 ppf J-55, STC	SPUD MUD 8.6-8.8 PPG	2°/100'
		Yates	2664	2664		12 1/4"	10 3/4" NT-80, 45.5, BTC 0'-3000'	10.0-10.2 ppg Brine wtr 28-34 CP 920'-3000'	
		Capitan	3525	3525		9 1/2"	7 5/8" DV Tool/ECP 2891'	8.4-8.6 ppg Fresh wtr Vis 28-29 3000'-4258'	2°/100'
STRAIGHT HOLE	E-LOGS NONE	Delaware	4258'	4258'			7 5/8", 26.4 ppf HCP-110, LTC 0'-4258'		
		Cherry Canyon	4748	4748			<b>Proposed Cherry Canyon Perfs:</b> 4878 - 88' 4 JSPF w/ 3-3/8" gun 60 deg phasing 5120' RBP w/ 1 sxs sand 5824'-36' Frac'd w/ 32.9m# 35% oil cut (-159 BLW) Testing 21 BO / 11 BW / 33 MCF on pump CIBP 6363'-68' Break down w/ 10 bbl 3% KCl (6363'-6377') 6373'-77' No Fluid Entry 6396'-6400' Added perfs- no reaction. 6562'-80' Break down w/ 1000 gal 7.5% NEFE acid No oil or gas on swab test.		
		Brushy Canyon	5877	5877					
		Lwr Brushy Canyon	7174	7174					
		1st Bone Springs Lm	7424	7424					
		Bone Springs Lm Pay	7616	7616					
STRAIGHT HOLE	E-LOGS Triple Combo 42580' to 7800'	PBTD TD	7727' 7800'	7727' 7800'		6 3/4"	5 1/2", 20#, P-110, Ultra-FJ 0'-7795'	8.4-10.4 ppg fresh/brine/mud 4268'-7800' WL 6-8 CC Vis 28-40	2°/100'

Last updated 1/19/2009 by JJA