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Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OM B No 1004-0137 Expires. March 31, 2007 361 NM 109640

If Indian, Allottee or Tribe Name

5	Lease Serial No	

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.

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

SUBMIT IN TRIPLICATE- Other in	NMNM106832X 8 Well Name and No. WEST HIGH LONESOME UNIT # 2		
Type of Well □ Gas Well □ Other Other			
2 Name of Operator Beach Exploration, Inc.	9 API Well No		
3a Address 800 N. Marienfeld, Suite 200, Midland, TX 79701	3b Phone No (include area code) 432 683 6226	30-015-25392 10 Field and Pool, or Exploratory Area	
4 Location of Well (Footage, Sec., T. R. M. or Survey Descriptio	W. HIGH LONESOME QUEEN		
660 FNL, 660 FEL, Sec 19, Unit A ,T 16 S, R 29 E		11 County or Parish, State	
		EDDY COUNTY, NM	

12. CHECK A	PPROPRIATE BOX(ES) T	O INDICATE NATUR	E OF NOTICE, REPORT, O	R OTHER DATA	
TYPE OF SUBMISSION TYPE OF ACTION					
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Start/Resume) Reclamation Recomplete Temporarily Abandon Water Disposal	Water Shut-Off Well Integrity Other	

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 honzontally, 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)

The WHL #21 injector failed a mechanical integrity test on 2/21/12 conducted by Richard Inge (NM OCD). The tubing pressure stayed at 1,000 psi during the test. The casing pressured to 200 psi and then went on a vacuum. With these indications, we suspect that the tubing and packer have integrity but the casing has a leak. The well is currently shut in pending repair. Wellbore diagram attached.

- 1 Connect tubing to central battery with poly line and flow back to reduce pressure.
- 2 RU pulling unit. NU BOP. Release packer. Pull packer and Duo-10 tubing and stand back.
- 3 Pick up 4 1/2" bridge plug, packer and 2 3/8" workstring. RIH and set BP at 1700'. Pull up, set packer and test BP to 2000 psi.
- 4 Work packer up hole testing tubing and backside to locate casing leak. RIH w/16 jts tailpipe and packer to casing leak.
- 5 Spot a 25sx balanced cement plug as follows: pump 7.5sx C-neat cmt, 10sx C-neat cmt w/6#/sx blast sand, and 7.5sx C-neat
- 6 Pull up 16 jts, pump 6 BFW, set packer and hesitation squeeze casing leak. WOC

Conditions of approval, if any, are attached Approval of this notice does not warrant or

- 7 POOH w/tubing. RU reverse unit. Pickup 3 7/8" bit, drill collars and workstring. Drill out squeeze plug and pressure test casing.
- 8 Drill out 4 1/2" BP at 1700' and clean out hole below perfs 1746 1772 (PBTD 1846) POOH and laydown drill collars and
- 9 RIH w/2 3/8" x 4 1/2" PC AD-1 tension packer, PC SN and 53 jts Duo-10 lined tbg. Load backside w/packer fluid and

10 Conduct OCD witnessed MIT. Return well to injection.

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				WARAUZ	<u> </u>
·	that the foregoing is true and correct (Typed) M. Rose	Title Engineer		NMOCD AR	TESI
Signature	el III Wan	Date	03/02/2012		
	THIS SPACE FOR FE	DERAL OR STATE	OFFICE USE		
Approved by	/s/ JD Whitlock Jr	Title L	Date	7/19/12	

certify that the applicant holds legal or equitable title to those rights in the subject lease Office 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)

SEE ATTACHED FOR CONDITIONS OF APPROVAL Accepted for record

	TOC Surf	WHL #21 (Federal "19" #1)
	Circ Caic TOC 205' yld 1 32 25% exc	GL: 3,639
	Calc TOC 483' yld 1.32 50% exc	Casing Wt Type Set Cmt Hole TOC Method 8-5/8" 24 00 355 250 12 1/4"esi Surf Circulated 4-1/2" 9.50 1,874 360 7-7/8" 205 Calc 25% exc
CS# 1 5m-26		8-Sep-85 Spud well Millard Deck Estate - Federal "19" #1 21-Oct-85 Penrose Completion Perforated (1746 - 1772) SWF w/100Mgal + 109M# sand Potential pumping 17 BOPD 30 API, 1 BWPD, 68 MCFPD GOR 4000 1-Nov-87 New oper Norwood Oil Co. 1-Apr-00 New oper Eunice Well Serv. 1-Apr-01 New oper Beach Exploration West High Lonesome Unit #21 Convert to Injection 21-May-02 Treated down backside w/250gal xylene Pull and laid down rods and pump. Press tst'd tog to 2500psi. RIH w/bit & & scraper and CO to 1825' Acidized Penrose w/300gal 15% NEFE acid. Well on vacuum. Laid down tog and sent to Rice Eng for Duo-10 lining. 17-Jul-02 RIH w/4 1/2" PC AD-1 tension pkr, PC SN, and 53 jts 2 3/8" 4.7# J-55 Duo-10 lined tog Bot of pkr at 1711' Loaded backside w/18bbl of pkr fluid, set pkr w/24pts and tested backside. Ok. OCD conducted inj well MIT Passed
37		TUBING STRING 7/17/2002 # OF JTS DESCRIPTION LENGTH FROM TO Distance from KB to top of pipe 7.00 0.00 7.00 53 2.3/8" 4.7# J-55 Duo-10 lined 1700.51 7.00 1707.51 1 2.3/8" PC SN 1.10 1707.51 1708.61 1 2.3/8"x4 1/2" PC AD-1 Ten Pkr 2.40 1708.61 1711.01 ROD STRING (none) # OF JTS SIZE TYPE OF RODS LENGTH
		Calc TOC 205' yld 1 32 25% exc Calc TOC 483' yld 1.32 50% exc

Conditions of Approval

Beach Exploration, Inc. West High Lonesome Unit - 021 API 3001525392

March 9, 2012

- 1. Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
- 2. Provide a cement bond log record from plug back total depth to top of cement and a cement bond log record subsequent to the planned cement squeeze.
- 3. Surface disturbance beyond the existing pad must have prior approval.
- 4. Casing added or replaced requires a prior notice of intent (BLM Form 3160-5) approval of the design.
- 5. Closed loop system required. 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 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 1, 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.
- 6. Workover approval is good for 90 days (completion to be within 90 days of approval).

Well with a Packer - Operations

- 1) Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
 - a) The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
 - b) Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
 - c) At least 24 hours before the test: In Eddy County email Paul R. Swartz <u>pswartz@blm.gov</u>, (phone 575-200-7902). If there is no response phone 575-361-2822. In Lea County email Andy Cortez <u>acortez@blm.gov</u>, (phone 575-393-3612 or 575-631-5801). Note the contact notification method, time, & date in your subsequent report.
 - d) Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
 - e) Use of tubing internal protection, tubing on/off equipment just above the packer, and an in line tubing check valve below the packer or between the on/off tool and packer is required. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
 - f) Submit the original subsequent sundry with three copies to BLM Carlsbad.

- 2) Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
 - a) Approved injection pressure compliance is required.
 - b) If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
 - c) When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum.
 - i) Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
- 3) Other unexplained significant variations of rate or pressure to be reported within 5 days of notice.
- 4) The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity.
- 5) The annulus is to be maintained full of packer fluid at atmospheric pressure. Installation of equipment that will display on site, continuous open to the air fluid level is required. A BLM inspector may request verification of this fluid level at any time.
- 6) **Submit a subsequent report (Sundry Form 3160-5)** describing the installation of packer fluid level monitoring equipment within 30 days of beginning injection.
- 7) The operator shall keep monthly records documenting that the casing annulus is fluid filled. A suggested format for these records is available from the BLM Carlsbad Field Office. Copies of those records shall be furnished at the request of a BLM authorized officer.
- 8) Loss of packer fluid above five barrels per month requires notification of the BLM authorized officer within 5 days.
- 9) Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of Opsia. Notify the BLM's authorized officer ("Paul R. Swartz" < pswartz@blm.gov>, cell phone 575-200-7902). If there is no response phone 575-361-2822.
- 10) Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for planned well work involving a formation change, casing repair/replacement, and injection well fracture treatment for approval by BLM and NMOCD. Verbal approval for the plan may be given by a BLM authorized officer, with the NOI filed within five business days. Packer and tubing repair (normal maintance procedures) do not require a NOI, but a subsequent sundry needs to be filed. http://www.blm.gov/nm/st/en/prog/energy/oil and gas.html (see CFR § 3162.3-2 43 & CFR § 3160.0-9 (c)(1)).
 - a) Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test as per item 1) above. Include the date(s) of the well work, and the setting depths of required equipment: internally corrosive protected tubing, tubing on/off equipment just above the packer, and an in line tubing check valve below the packer or between the on/off tool and packer is required. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore workover.