(June 1980) DEPARTMEN PTHE INTERIOR NUM. ODI CONS ISUGPD-useu No. 103.0435 C.I. BUREAU OF LAND MANAGEMENT 8111 S. 158 STEEL Artesia, NM 882 T19-2854 batton and Sanal No. NM 12211 Do not use this form for proposals to drill or to deepen or reenter adjetted treatorie. Initialian, Addite or Table Name Use "APPLICATION FOR PERMIT -" for such profitable Initialian, Addite or Table Name Use "APPLICATION FOR PERMIT -" for such profitable Initialian, Addite or Table Name Use "APPLICATION FOR PERMIT -" for such profitable Initialian, Addite or Table Name Use "APPLICATION FOR PERMIT -" for such profitable Initialian, Addite or Table Name Use "APPLICATION FOR PERMIT -" for such profitable Initialian, Addite or Table Name 1. Type of Well Image: Subject Name Image: Subject Name 2. Name of Operator One for the profitable Image: Subject Name 3. Address and Telephone No. Image: Subject Name Image: Subject Name 100 For Intern Subject Name Image: Subject Name Image: Subject Name 110 Complex Appropriate BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA Type OF Subject Name 12 CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA Image: Subject Name Image: Subject Name </th <th>BUREAU OF LAND MANAGEMENT OT 15. IS SUFERT Express March 31, 1993 Artesia, NM 88216-28545airon and Seria NO. NM 12211 Do not use this form for proposals to diffi of to deepen or reenter a defeat freekroir. Use "APPLICATION FOR PERMIT-" for such properation SUBMIT IN TRIPLICAT Use "APPLICATION FOR PERMIT-" for such properation SUBMIT IN TRIPLICAT 1. Type of Well 0. Multiple of Application on tenter a defeat freekroir. Do not use this form for proposals to difficult or deepen or reenter a defeat freekroir. Use "APPLICATION FOR PERMIT-" for such properation SUBMIT IN TRIPLICAT 1. Type of Well 0. Multiple of Application on description or delete 2. Name of Operation Ocean Energy, Inc. 3. Address and Telephone No. 1001 Fannin, Suite 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in the food poser of the Morrow 100 Fannin, Suite 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 2000 Free, Sec. 20, 718S, R31E 1. County or Parish, State Eddy County, NM 1. Deapeder Proposed or Complet</th> <th>FORM 3160-5</th> <th></th> <th></th> <th>S. FORM APPROVED</th>	BUREAU OF LAND MANAGEMENT OT 15. IS SUFERT Express March 31, 1993 Artesia, NM 88216-28545airon and Seria NO. NM 12211 Do not use this form for proposals to diffi of to deepen or reenter a defeat freekroir. Use "APPLICATION FOR PERMIT-" for such properation SUBMIT IN TRIPLICAT Use "APPLICATION FOR PERMIT-" for such properation SUBMIT IN TRIPLICAT 1. Type of Well 0. Multiple of Application on tenter a defeat freekroir. Do not use this form for proposals to difficult or deepen or reenter a defeat freekroir. Use "APPLICATION FOR PERMIT-" for such properation SUBMIT IN TRIPLICAT 1. Type of Well 0. Multiple of Application on description or delete 2. Name of Operation Ocean Energy, Inc. 3. Address and Telephone No. 1001 Fannin, Suite 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in the food poser of the Morrow 100 Fannin, Suite 1600, Houston, Texas 77002 (713) 265-6834 or 6000 4. Coaling Area in 2000 Free, Sec. 20, 718S, R31E 1. County or Parish, State Eddy County, NM 1. Deapeder Proposed or Complet	FORM 3160-5			S. FORM APPROVED
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Shugart "20" Federal #1 1700' FNL & 1750' FEL Sec. 20, T-18-S, R-31-E Eddy Co., NM

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October 25, 2000 Perf and Frac Additional Morrow

Current Production: 1.6 MMcfpd, FTP = 700 psi on 26/64" ck. Proposed Perfs: 11,667-78', 11645-62', 11614-18', 11602-10', 11588-94'

- 1) RU SL unit. TIH w/ sinker bars and tag PBTD. POOH and RD SL unit.
- 2) RU kill truck loaded w/2% KCI water to tree. Mix and pump enough 20/40 sand in 2% KCI water to fill casing from PBTD to 11,690'. Allow sand to settle overnight.
- 3) RU SL unit. TIH w/sinker bars and tag PBTD. POOH. Dump bail sand if necessary to add height, or bail out sand to subtract (as long as it isn't too much). Be sure sand depth is adequate to perforate lowermost interval 11.667-78'.

a) 20/40 sand fill in 5-1/2", 17# casing - 0.0717 lb/lin. ft.

- Run a brush through tbg to clean out any residual sand. TIH w/1.875" blanking plug and set same in "R" nipple below packer at ±11,510'. RD slickline unit. Bleed pressure from tbg to ensure plug is holding.
- 5) MIRU workover rig. ND tree and NU BOP's. Test BOP's to 3000 psi. Release from Baker L-10 on/off tool at 11,497'. POOH and LD 2-3/8" tbg. C/O BOP rams to 3-1/2".
- 6) PU redressed receptacle and TIH on 3-1/2", 12.95# P-110 PH-6 workstring. Latch back onto on/off tool. Land tbg in approx. 40K lbs compression. Test annulus to 4000 psi.
- 7) RU SL unit. TIH and pull blanking plug from "R" nipple at 11,510'. RD SL unit.
- 8) RU WL. NU full 5M lubricator. RIH w/1-11/16" EnerJet gamma/gun (loaded 2 spf 180 degree phasing). Correlate depth. Perforate Morrow from 11,667-78', 11,645-62', 11,614-18', 11,602-10' and 11,588-94'. POOH. Report tbg pressure after perforating.

a) Depth Reference: Reeves CNL Run #1 dated 8/6/00.

- 9) RU BJ Services. RU kill truck to annulus. Load annulus w/ 2% KCl water and apply 3000 psi. Monitor pressure throughout frac job. Test lines to 13,000 psi. Frac well as per the attached BJ recommendation. Record max and avg treating rates and pressures as well as ISIP and 5, 10, 15 min. pressures. RD BJ and NU flowback equipment.
- 10) Open well on 10/64" choke and begin flowing back frac load. Open choke as necessary to optimize fluid recovery. Allow well to thoroughly clean up before shutting in. Record SI pressures when available.
- 11) RU SL unit. Run a brush through the tubing to remove any sand in the tbg. TIH w/blanking plug and set same in 1.875" "R" nipple at 11,510'. Bleed pressure from tbg to ensure plug is holding.

- 12) Release from on/off tool and POOH & LD 3-1/2" tbg. C/O BOP rams to 2-3/8". PU redressed receptacle and RIH on 2-3/8" production tubing. Circulate hole w/250 bbls 2% KCl water treated w/oxygen scavenger/biocide for packer fluid. Tie onto Baker L-10 on/off tool @ 11,497' and space out to land tbg in 10-12K lbs compression.
- 13) Land tbg. ND BOP's and NU tree. Test annulus to 1500 psi.
- 14) RU SL unit. Pull blanking plug from "R" nipple @ 11,510[.] TIH w/sinker bars and tag PBTD. Continue w/step 15 if sand is covering lower perfs. Otherwise release rig and PWOL.
- 15) RU 1-1/4" CT unit. ND tree cap and NU CT BOP's. MU jetting tool on CT and NU injector head. Test CT BOP's to 3000 psi against lower master valve.
- 16) Open well and TIH w/jetting tool. Circ. at minimum rate while TIH. Clean out sand to PBTD at 11,839'. Jet well dry w/N2 from PBTD. POOH w/CT.
- 17) ND injector head and CT BOP's. NU tree cap. RD and release CT unit.
- 18) PWOL. Obtain potential test when production rate has stabilized.

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RPE 10/25/00