District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

C19F

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number
Ocean Energy, Inc. **1001 Fannin, Suite 1600, Houston, TX 77002**	**169355**
	[3] API Number 30 – 015-24789

[3] Property Code	[5] Property Name	[6] Well No.
16895	Burton Flat Deep Unit	27

[7] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	2	21S	27E		1612	North	1980	East	Eddy

[8] Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[9] Proposed Pool 1	[10] Proposed Pool 2
Undesignated/Delaware, Northeast (Fenton)	

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
PB	O	---	S	3195'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
N	6191' PBTD 5300'	Bone Spring	N/A	4/20/84

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	48#	600'	500	Surf.
12-1/4"	8-5/8"	24#	2573'	1400	Surf.
7-7/8"	5-1/2"	17#	6250'	975	-----

22 Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Plug back to the Delaware per the attached procedure. Attached is a current wellbore schematic and proposed wellbore schematic.

Work is planned to start in 3-4 days.

RECEIVED
FEB 2002

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Jeanie McMillan
Printed name: **Jeanie McMillan**
Title: **Regulatory Specialist**
Date: **2/21/02** Phone: **(713) 265-6834**

OIL CONSERVATION DIVISION

Approved by: ORIGINAL SIGNED BY TIM W. GUM
DISTRICT II SUPERVISOR
Title:
Approval Date: FEB 25 2002 Expiration Date: FEB 25 2003
Conditions of Approval:
Attached ☐

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State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-015-24789		Delaware

[4] Property Code	[5] Property Name	[6] Well Number
16895	BURTON FLAT DEEP	27

[7] OGRID No.	[8] Operator Name	[9] Elevation
169355	OCEAN ENERGY INC.	3195'

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	2	21S	27E		1612	NORTH	1980	EAST	EDDY

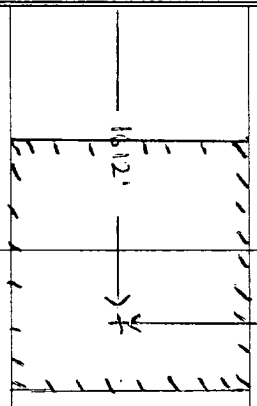
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Jeanie McMillan
Signature

JEANIE McMILLAN
Printed Name

SR. REGULATORY SPECIALIST
Title

2-21-02
Date

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

BURTON FLAT DEEP UNIT #27
Complete Delaware Zone

1612' FNL and 1980' FEL
Sec 2, T-21S, R-27E
Eddy County, NM **TD 6250'**
Burton Flat Field **PBTD 6191'**

Tubulars

Production Casing: **13-3/8" @ 600' cmtd w/500 sx**
8-5/8" @ 2,573' cmtd w/ 1400 sx
5-1/2", 17.0# @ 6,250' cmtd w/ 975 sx

Perforations

Delaware: 2,744-2,768 (48 holes w/2 spf) & 2,926-2,940 (28 holes 2/spf) - Proposed
Bone Spring: 5,395-5,420 (52 shots)

DAY 1

1. MIRU PU. Test Anchors and send results to Midland office. ND tree and NU BOPs.
2. Pmp 2% KCL to kill well.
3. TOH w/tbg and Baker Model R Pkr.
4. RU WL.
5. RIH w/Gage ring to 5,300'.
6. RIH w/CIBP. Set CIBP @ 5,300' & Dump 35' cmt on top of plug.
7. SDFN.

DAY 2

1. Pressure test csg to surface pressure of 2000 psi.
2. RU WL. NU lubricator and test to 1500 psi. RIH w/4" csg gun & perf 2,926-2940' w/2 spf. Move uphole and perf 2,744-2,768' w/2 spf 0.48-0.50" EHD, 24" Penetration.
3. POOH. RD WL.
4. RIH w/RBP & Pkr on 2-7/8" tbg. Set RBP @ 2,960'. Set pkr at 2950' and test tbg to 2000 psi. Release pkr and PU to 2900'. Set Pkr @ 2,900'. RU BJ. Establish rate & pmp 500 gals 7.5% NEFE HCL. SD. Report 5, 10 and 15 min. pressures.
5. Release pkr & TIH to RBP. Engage and release RBP. Move uphole & set RBP @ 2,850'. Set pkr @ 2,800'. Test RBP @ 2,850' to 2000 psi. Release Pkr, Move Uphole. Set pkr @ 2,725'. Test treating pkr to 2000 psi.
6. Establish rate & pmp 1,000 gals 7.5% NEFE HCL. SD. Report 5, 10 and 15 min. pressures. RD BJ.

7. Release Pkr & RBP. Set RBP below all perfs. Reset pkr @ 2,725'. Test pkr. RU swab unit. Swab back acid load. Report shows. RD swab unit. POOH w/tbg, pkr & RBP.

DAY 3

1. RU BJ for frac down 5-1/2" csg.

2. Pump down csg with frac as follows:

   FRAC: Fracture stimulate the Delaware (2,744-2,768' & 2,926-2,940') down csg w/33,200 gal Spectra Frac G-3000 + 76,000# 16/30 sand staged as follows @ 40 BPM w/MXP = 1,500 psig. Estimated ATP = 783 psig.

Fluid Type	Vol (gal)	Lbs. of Sand
G-3000	12000	0
G-3000	1000	1000
G-3000	2000	4000
G-3000	3000	9000
G-3000	4000	16000
G-3000	5000	25000
G-3000	3500	21000
G-3000	2700	0
Total	**33200**	**76000**

   FLUSH: Total Flush = 64 bbl (2700 gal) Fresh Water (1 bbl short of top perf). Gradually reduce rate during flush.

   Flush volumes do not include pump and line volumes

4. Flow back for forced closure. RD BJ.

5. Flow well back until it dies. Run 2-7/8" tbg w/SN to ±2950'. ND BOP's. Hang off tbg and NU Larkin head. RU swab and swab back remainder of load. Test well to determine production capacity. Obtain oil sample for gravity determination and ASTM distillation. Obtain gas sample for anlysis.

DAY 4

1. RIH w/rods and pump as per Houston's recommendation. Long stroke pump and HWOB.

2. RD and release pulling unit. Turn well over to Production personnel.

Jasper Dohrendorf Approval: Robert Elliott

APPENDIX

1. **Capacities of Tubular Goods:**
   A. 2-7/8", 6.5# Tubing

      0.00579 bbl/ft
      0.2431 gal/ft

   B. 5-1/2", 17.0# Production Casing

      0.0232 bbl/ft
      0.9964 gal/ft

   C. 8-5/8", 24.0# Intermediate Casing

      0.0636 bbl/ft
      2.6749 gal/ft

2. **Acid Additives:**

1,500gal	15% NEFE	
6 gpt	Ferrotrol-270	Iron Control Product
2 gpt	Ferrotrol-271	Iron Control Product
1 gpt	CI-27	Corrosion Inhibitor
1 gpt	Clay Master –5C	Clay Stabilization Product
1 gpt	NE-940	Non-Emulsifier

3. **Fracturing Additives:**

33,200 gal	Spectra Frac G-3000	
167 ppt	Potassium Chloride	Salt
5 gpt	Superset-O, 55 gal drum	Resin Activator
1.5 gpt	BF-7L	Buffers/pH Control Product
1.2 gpt	XLW/24	Crosslinker
1.0 gpt	Enzyme-G	Gel Breaker
1.0 gpt	NE-940	Non-Emulsifier
1.0 ppt	GBW-5	Gel Breaker
0.05 gpt	Magnicide 575	Bacteria Control Products
55,000 lb	16/30 Brady Sand	Brown Sand
21,000 lb	16/30 Super LC Sand	Resin Coated Sand

4. **Quality Control**
   1) Safety Meeting
   2) Obtain Copies of Weight tickets
   3) Check gel viscosity, crosslink, general appearance
   4) Confirm Breaker Time
   5) Maintain recommended pH of frac fluid
   6) Perform API Sand Sieve Analysis
   7) Catch 1 sample of pad and 3 samples of sand at above stages and give to Ocean Energy rep.

5. **Contacts:**
   A. Engineer – Jasper Dohrendorf – 713/265-6820
   B. Senior Production Engineer – Robert Elliot – 713/265-6839
   C. BJ Stimulation – Matt Boese – 505/746-9247

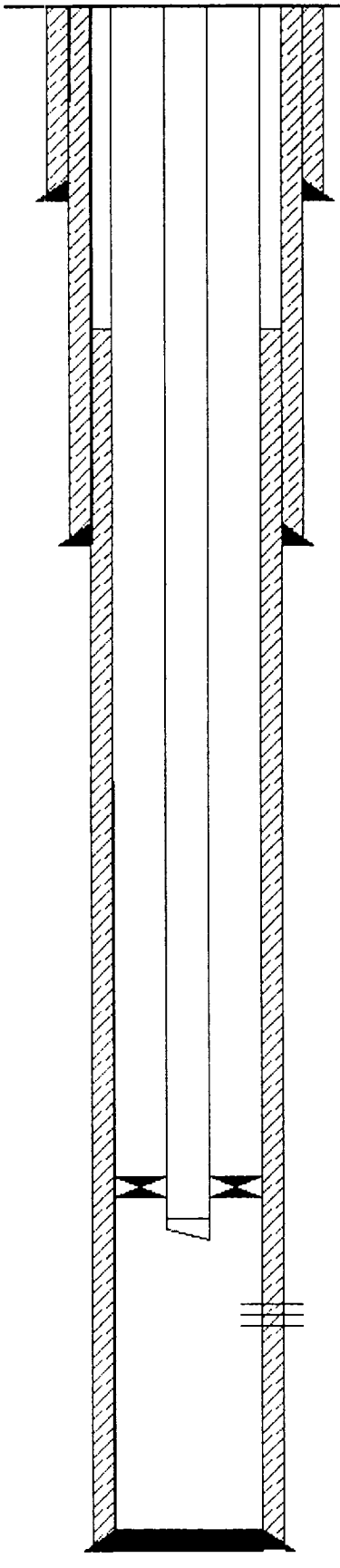
Burton Flat Deep Unit #27
1612' FNL & 1980' FEL
Sec. 2, T-21-S, R-27-E
Eddy Co., NM
Elevation: 3,195.4' GL, 3,204.7' KB

Current Completion

Spud Date: 4/20/84
Completion Date: 5/25/84

Completion

5/84: Perf 5,395-5,420' w/ 52 shots. Acdz w/2000 gals 15% NEFE. Frac w/ 50,000 gals foam & 42,000# 20/40 & 31,500# 10/20 sand.



13-3/8", H-40, 48# @ 600'
Cmt'd w/500 sx - Circ. w/ 100 sx

TOC @ 660' From Surface, Temp Survey

8-5/8", J-55, 24# @ 2,573'
Cmt'd w/1400 sx. Circ 100 sx

166 jts, 2-7/8" tbg @ 5,340'

Pkr@ 5,327'

Perfs: 5,395-5,420' w/52 shots

5-1/2", J-55, 17# set @ 6,250
Cmt'd w/975 sx.

TD: 6,250'
PBTD: 6,191'

JAD 7/31/01

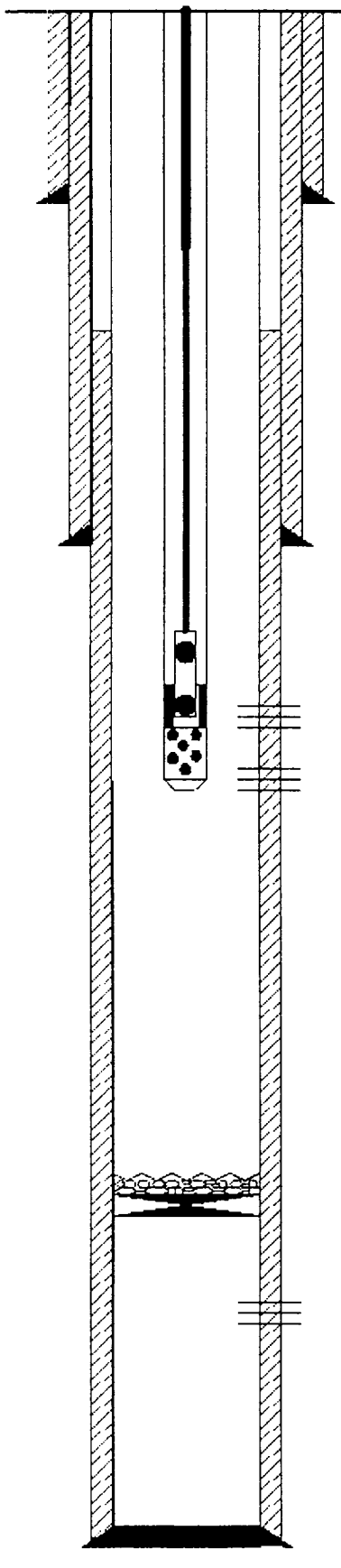
Burton Flat Deep Unit #27
1612' FNL & 1980' FEL
Sec. 2, T-21-S, R-27-E
Eddy Co., NM
Elevation: 3,195.4' GL, 3,204.7' KB

Proposed Completion

Spud Date: 4/20/84
Completion Date: 5/25/84

Completion

5/84: Perf 5,395-5,420' w/ 52 shots. Acdz w/2000 gals 15% NEFE. Frac w/ 50,000 gals foam & 42,000# 20/40 & 31,500# 10/20 sand.



13-3/8", H-40, 48# @ 600'
Cmt'd w/500 sx - Circ. w/ 100 sx

TOC @ 680' From Surface, Temp Survey

8-5/8", J-55, 24# @ 2,573'
Cmt'd w/1400 sx. Circ 100 sx

2-7/8" tbg w/ tapered rod string and RWBC Pmp.

Delaware Perfs: 2,744-2,768 w/2 spf, 48 holes.

Delaware Perfs: 2,926-2,940' w/2 spf,28 holes.

CIBP @ 5,300' w/ 10' cmt

Perfs: 5,395-5,420' w/52 shots

5-1/2", J-55, 17# set @ 6,250
Cmt'd w/975 sx.

TD: 6,250'
PBTD: 6,191'

JAD 8/7/01