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Form 3160-3 (July 1992)			N.M. Oil <b>Gor</b> S1625 N. Frér	her instanctions on	E* FORM APPI OMB NO. 10 Expires: Februa	004-0136				
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APPL 18. TYPE OF WORK	ICATION FOR P	ERMIT TO	DRILL OR DEE	<u>IPEN</u>						
D. TIPE OF WELL		DEEPEN		50	7. UNIT AGEBEMENT NA					
OIL GAS SINGLE X MULTIPLE 8. FARM OR LEASE NAME, WELL NO.										
2. NAME OF OPERATOR COCKBURN FEDERAL # 4 OCEAN ENERGY, INC.										
OCEAN ENERGY , 3. ADDRESS AND TELEPTIONE NO.			(JEANIE MCMILLA		30,075	7/70				
4. LOCATION OF WELL (F	SUITE 1600 HOUS' Report location clearly and		•		10. FIELD AND POOL. OF MESCALERO ESCA BONE SPRING	Sod 7-				
At surface	40' FSL SECTION	10 T185-R	33F IFA CO NM		11. SEC., T., B., M., OR B.	LK.				
At proposed prod. zoi		10 1103-K	JJE LEA CO. MI		SECTION 10 T18					
14. DISTANCE IN MILES	AND DIRECTION FROM NEAD		T OFFICE							
	v 35 miles West o				12. COUNTY OR PARISH LEA CO.	13. BTATE NM				
15. DISTANCE FROM PROP LOCATION TO NEARES	USED		16. NO. OF ACRES IN		OF ACRES ASSIGNED					
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13. DISTANCE FROM FROM	POSED LOCATION®		19. PROPOSED DEPTH	20. ROTA	AT OR CABLE TOOLS					
OR APPLIED FOR, ON TH	IS LEASE, PT.	1320'	9500'	RC	DTARY					
21. ELEVATIONS (Show wh		54' GR.	Canton Control	Pad Weber Back	22. APPROX. DATE WOR					
23.	<u> </u>	PROPOSED CAS	ING AND CEMENTING		When approved	1				
SIZE OF ROLE	GRADE, SIZE OF CASING	WEIGHT PER P	OOT SETTING DI	epth	QUANTITY OF CEMENT	r				
25"	Conductor	NA	40'		to surface wit					
<u> </u>	<u>H-40 13 3/8"</u>	48	450		<u>c. circulate to</u>	<u>surface</u>				
7 7/8"	J-55 8 5/8" L-80 5 <sup>1</sup> 2"	17	9500		. estimate TOC	2700'				
	ble to 40'. Set									
2. Drill 17½" H 200 Sx. of ( "C" cement -	nole to 450'. Ru Class "H" cement + 2% CaCl, circu	n and set 4 + 1% CaCl, late cement	450' of 13 3/8' , + 2% Bentonit ; to surface.	' 48# H-40 SI ce, tail in e	C&C casing. Ceme with 300 Sx. of	ent with Class				
600 Sx. of 3	ole to 3200'. Ru 35/65 POZ Class ' cement + addi <b>t</b>	"C " cement	: + 6% Bentonit	:e, + 1% CaCl						
<b>9</b> 00 Sx. of	' hole to 9500'. Class "C" cemen	t + 16% ret	arder, + .6% f							
estimate toj	p or cement 2700	' from surf	PROPER POOL C	OGRID NO. <u>/</u> RTY NO. <u>323</u> ODE <u>4579</u>	4/ 0 56 > 0 0 10	Ń				
	E PROPOSED PROGRAM: If		3	TE 6-3-0		Bosal is to drill d				
deepen directionally, give parts	nent data on subsurface location		APINO.	<u>30-025-36</u>						
SIGNED	et. Jan	la III	Agent		Hobbs 04/18	<u>7</u> 03				
(This spice for Feder	rai or State office use)			APPROVAL	UBLECT TO	, ,				
PERMIT NO	<u> </u>		APPROVAL DATE	CENERAL R	COUREMENTS.	AND				
Application approval does n	ot warrant or certify that the appl	licant holds legal or eq	uitable title to those rights in t	- <b>SPECIAL</b> IST	RULATIONS o and	just operations the				
CONDITIONS OF APPROVAL	, IP ANY:		TING BABAL	ATTACHED						
	/S/ JOE G. LAF	ρα βα		AGER	MAY 3 0 20	103 K-				
APPROVED BY					DATE					
		*See Instruc	ctions On Reverse S	iide APF	PROVAL FOR	1 YEAF				



1625 N. French Dr., Hobbs, NM 56240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec. NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 Energy, Minerals and Natural Resources Department

Revised March 17, 1999

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

# OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

# WELL LOCATION AND ACREAGE DEDICATION PLAT

APT No	API Number Pool Code Pool Name											
API Number Pool Code 30-025-36296 45793						Pool Name MESCARLO ESCARPE-BONE SPRING						
Property Con	<u></u>	0010	e	E-BONE SERI	Well Number							
3234				4								
OGRID No.			Elevation									
169355					OCEAN ENER	RGY		395				
		l <u></u>	<u></u>		Surface Loca							
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40												
NO ALLOW	ABLE W	ILL BE A	ASSIGNED	TO THIS	COMPLETION U	INTIL ALL INTER	RESTS HAVE BI	EEN CONSOLIDA	ATED			
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	COCKBURN FEDERAL #4 Located at 740' FSL and 1800' FWL Section 10, Township 18 South, Range 33 East, N.M.P.M., Lea County, New Mexico.															
	bisingP.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (505) 393-7316 - Office (505) 392-3074 - Fax basinsurveys.comW.O. Number: 3211AA - JLP #1OCEAN ENERGYSurvey Date:04/11/03Scale: 1" = 2000'Date:04/15/03															

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#### 1. Location: Elevation above Sea Level:

- 2. Proposed drilling depth: 9,500'
- 3. Estimated tops of geological markers:

Rustler	1,545'
Queen	4,244'
Grayburg	4,745'
San Andreas	4,800'
Delaware	5,982'
Bone Springs Lime	6,770'
1 <sup>st</sup> Bone Springs Sand	8,276'
2 <sup>nd</sup> Bone Springs Carbonate	8,771'
2 <sup>nd</sup> Bone Springs Sand	8,928'
	-
TD	9 500'

#### 4. Possible mineral bearing formation:

1 <sup>st</sup> Bone Springs Sand	Possible gas
2 <sup>nd</sup> Bone Springs Sand	Possible gas

#### 5. Pressure Control Equipment:

A 5000-PSI working pressure B.O.P. consisting of a double ram type Preventer with a 5000-PSI bag type annular Preventer. BOP unit will be hydraulically operated. Choke manifold and closing unit. BOP will be nippled up on 13 3/8" 2000-PSI casing head. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized from 800' to TD. No abnormal pressure or temperature is expected while drilling. See attached diagram.

TYPE: 13 5/8" Hydril annular, Cameron double ram

PRESSURE RATING: 5,000 psi BOP's, 2000 psi casing head, and 3000 psi B-section. TESTING PROCEDURE: BOP and casing head assembly will be pressure tested to a low 300 psi and a high of 2000 psi upon installation prior to drilling cement from surface casing and intermediate casing. Pipe rams will be function tested daily and blind rams will be function tested on trips.

### 6. Proposed Casing Program:



17 1/2" Surface Hole: Surface casing is to be new 13 3/8" 48# API K-55 STC to be set @ 450' below ground level and cemented to surface using 200 sacks Class H Cement with 1% CaCl2, and 2% Bentonite (14.6 ppg, 1.52 cuft/sx, 6.16 gal sx water), and 300 sacks Class C Cement with 2% CaCl2 (14.8 ppg, 1.34 cuft/sx, 6.36 gal /sx water). The casing will be centralized from TD to surface with a centralizer spacing of approximately 160'. Standard float equipment will be used.

11" Intermediate Hole: Intermediate casing is to be 8 5/8", 32#, J55, LTC casing set at 3,200'. This string will be cemented back to surface. The lead cement slurry will consist of Halliburton 35/65 Poz Cement with 6.0% Bentonite, 1% CaCl mixed at 12.5 ppg with a yield 1.95 cf/sx, 10.7 gal/sx. Volume will be based on a fluid caliper and 25% excess. The tail cement slurry will consist of 200 sacks of Class C cement (yield 1.34 cf/sx, 14.8 ppg, 6.36 gal/sx) for 500' of fill at the shoe. Standard float equipment and centralization will be used.

7 7/8" Production Hole: Production casing is to be 5 1/2", 17#/ft, L-80 LTC set to 9,500'. This will be cemented to 2,700' (inside the 8 5/8" casing). Cement volume will be caliper plus 20% by volume. Cement to be Class C with 16 % retarder, .6 % fluid loss additive, 5% NaCl and 5 lbs/sx lost circulation material mixed at 13.2 ppg, yield 1.64 cuft/sx, 7.81 gal / sx of water. Compressive strength to be greater than 2000 psi in 24 hours. Centralizers and float equipment will be used in pay zones and in the overlap area of the 8 5/8" casing.

### 7. Proposed Mud Program:

Surface hole will be drilled with fresh water and gel sweeps for hole cleaning.

The intermediate hole will be drilled utilizing a 10 ppg brine water to minimize salt leaching in salt bearing formations.

The production interval will be drilled utilizing a low solids fresh water mud system consisting primarily of bentonite, starch and bacteriacide. Barite will be used if mud weights above 9.5 ppg are required.

Depth	Mud Wt.	Vis	Fluid loss	System
0 - 450',	8.4 - 9.0	29 to 32	NC	Fresh water mud use LCM to control seepage and gel sweeps for hole cleaning.
450- 3200'	10.0	28 to 30	NC	Lease brine water circulated from a lined pit.
3200 - 9500	8.3 <sup>-</sup> to 9.0	30-40	NC to – 6cc	Fresh water LSND mud system. Fluid loss to be lowered at 8000' for pay zones.

### 8. Cuttings Disposal:

Water base cutting will be disposed of in a lined reserve pit which will be de-watered and back filled.

### 9. Auxiliary Equipment:

A mud gas separator and closed mud system along with the required solids control equipment will be rigged up for drilling the production hole. Pressure while drilling tools will be utilized to monitor bottom hole pressure in drilling this interval. All equipment required for near balance drilling will be employed as the objective is to drill this section at or slightly above pore pressure. Float valves will be utilized in drilling this section.

### 10. Testing and Logging:

Intermediate Hole: no logs run.

Production Hole: Compensated Neutron Porosity log, Dual Induction, SP, Gamma Ray, Caliper and Sonic Logs. There are no drillstem tests programmed for this interval.



### APPLICATION TO DRILL

OCEAN ENERGY, INC. COCKBURN FEDERAL # 4 UNIT "N" SECTION 10 T18S-R33E LEA CO. NM

## 11. Anticipated Abnormal Pressures or Temperatures:

No abnormal pressures or temperatures have been noticed or reported in wells drilled in the area or at the depths anticipated in this well

# 12. Drilling Activities:

The anticipated starting date is set for on or about 1 May 2003 or as soon as possible after approval of drilling permit. Twenty (20) days are programmed for drilling the well from spud to running of the production liner.

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#### HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazzards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
- 2. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H<sub>2</sub>S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
  - A. See exhibit "E" & "E-1"
- 6. Communication

13-A

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - C. If the location is near to a dwelling a closed DST will be performed

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H<sub>2</sub>S scavengers if necessary.



### SURFACE USE PLAN

OCEAN ENERGY, INC. COCKBURN FEDERAL # 4 UNIT "N" SECTION 10 T18S-R33E LEA CO. NM

- 1. EXISTING ROADS: Area roads, Exhibit "B" is a reproduction of a County General Hiway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing exixting roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
  - A. Exhibit "A" shows the proposed well site location as staked.
  - B. From Hobbs, New Mexico take U.S. Hi-way 62-180 toward Carlsbad New Mexico go the junction with State Hi-way 529 Bear Right onto 529 go 16.1± miles to mile post 15<sup>1</sup>/<sub>2</sub>, turn Left go 1.1± miles to location on the East side of road.
  - C. See Exhibit "F" for routes of flowlines and powerlines. If other routes are desired a Sundry Notice will be submitted.
- 2. PLANNED ACCESS ROADS: Approximately 450' of new road will be constructed.
  - A. The access road will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
  - B. Gradient on all roads will be less than 5%.
  - C. Turnouts will be constructed as required or as directed by the BLM.
  - D. If needed roads will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
  - E. Center line for the new access road has been staked and flagged. Earthwork will be done as required by field and topographic conditions.
  - F. Colverts in the access road will be used where necessary. The road will be constructed to utilize low water crossings for drainage as dictated by the topography.
- 3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS SHOWN ON EXHIBIT "A-1".

Α.	Water wells		Non	e know	m		
в.	Disposal we	lls	None	e know	n		
c.	Drilling we	115	None	e know	m		
D.	Producing we	lls	As	shown	on	Exhibit	"A-1"
Ε.	Abanduned wel	lls	As	shown	on	Exhibit	"A-1".
F.	Injection wel	11s	Non	e know	m		



- 4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Possible routes of pipelines, flowlines and powerlines are shown on Exhibit "F". If other routes are more desirable a Sundry Notice will be submitted with routes indicated.
- 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

# 6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

### 7. METHODS OF HANDLING WASTE MATERIAL:

A. Drill cuttings will be disposed of in the reserve pits.

- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.

#### 8. ANCILLARY FACILITIES:

A. No camps or air strips will be constructed on location.



### 9. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
- C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with polyethelene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- 10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.  $h_{Loc}$   $h_{Loc}$ 

Should the well be a producer, the previously noted procedures will  $\frac{Hobbs}{OCO}$  apply to those areas which are not required for production facilities.

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# SURFACE USE PLAN

OCEAN ENERGY, INC. COCKBURN FEDERAL # 4 UNIT "N" SECTION 10 T18S-R33E LEA CO. NM

## 11. OTHER INFORMATION:

- A. Topography consists of sandy plains with areas of exposed caliche and low lying sand dunes. Vegetation consists of shinnery oak mesquite, saltbush, yucca, and native grasses. The dip on the surface is in a Southwesterly direction.
- B. The surface is owned by The Caviness Family Trust, the minerals are owned U.S. Government and is administered byt The Bureau of Land Management. The surface is used for the grazing of livestock.
- C. An archaeological survey has been completed and a copy of this report has been filed with The Bureau of Land Management in the Carlsbad Field Office.
- D. There are no dwellings located in the near vicinity of this location.
- 12. OPERATORS REPRESENTIVE:

BEFORE CONSTRUCTION:

TIERRA EXPLORATION, INC. P.O. BOX 2188 HOBBS, NEW MEXICO 88241 JOE T. JANICA OFFICE PHONE 505-391-8503

. . . . .

DURING AND AFTER CONSTRUCTION:

OCEAN ENERGY, INC. 1001 FANNIN, SUITE 1600 HOUSTON, TEXAS 77002 JEANIE McMILLAN PHONE 713-265-6834

13. <u>CERTIFICATION</u>: I certify that I or persons under my direct supervision have inspected the proposed drill site and access route, that I am familiar with the conditions which currently exist and that the statements made in this plan are to the best of my knowledge, are true and correct, and that the work associated with the operations proposed herein will be performed by OCEAN ENERGY, INC it's contractors/subcontractors and is in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false report.

NAME 04/18/0 DATE TITLE Agent



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SKETCH OF B.O.P. TO BE USED ON

OCEAN ENERGY, INC. COCKBURN FEDERAL # 4 UNIT "N" SECTION 10 T18S-R33E LEA CO. NM 1 465

DKILLING MANUAL





FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.





FIGURE K42. Typical choke manifold assembly for SM rated working pressure service — surface installation.

EXHIBIT "E-1" CHOKE MANIFOLD & CLOSING UNIT

> OCEAN ENERGY, INC. COCKBURN FEDERAL # 4 UNIT "N" SECTION 10 T18S-R33E LEA CO. NM





May 6, 2003

Bureau of Land Management Roswell Field Office 2909 W. Second Street Roswell, N.M. 88201-2019

Re: Surface Owner Agreement

Attn: Linda Askwig

Dear Linda:

An agreement has been made for surface damages with the surface owners for the wells to be drilled in Section 10, T18-5, R33E, Lea Co. NM Federal lease #NM-89891.

SinCerely, anica

Joe T. Janice Agent for Ocean Energy, Inc.

CC: Jeanie McMillan Joe Laura Chrono File -loe This is for ocean Energy, sno. Cockburn Federal

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Hobbs DCD

wells 2, 3, -4

Jtj/a