

APPLICATION TO DRILL

OCEAN ENERGY, INC.

Burton Flat Deep Unit No. 42
U1 or Lot #M, Sec. 27, T20N, R28E

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 660' FSL & 660' FWL, Section 27, T20S-28E Eddy Co. NM
2. Elevation above Sea Level: 3217' GR
3. Geologic name of surface formation:
4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
5. Proposed drilling depth: 11500'

6. Estimated tops of geological markers:

Capitan	1010'	Wolfcamp	8900'
Delaware	2935'	Strawn	10100'
Bones Springs	5220'	Atoka	10500'
1 st BS	6520'	Morrow	11000'
2 nd BS	7230'	Barnett	11370'
3 rd BS	8460'	TD	11500'

7. Possible mineral bearing formation:

Strawn	10100' Gas
Morrow	11000' Gas

8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
36"	0-40'	20"	60	NA	NA	Conductor
17-1/2"	0-600'	13-3/8"	40	8-R	ST&C	H-40
11"	0-2780'	8-5/8"	32	8-R	LT&C	K-55
7-7/8"	0-11500'	5-1/2"	17	8-R	LT&C	L-80 & P-110

9. Cementing and setting depth:

20"	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13-3/8"	Surface	Set 600' of 13-3/8" H-40, 40# ST&C csg. Cement with 300 sx of 35/65 POZ + Add, 200 sx "C" cement + 2% CaCl ₂ , circ to surface.
8-5/8"	Intermediate	Set 2780' of 8-5/8" K55 32# LT&C csg. Cement with 600 sx of 35/65 POZ Class "C" + 6% Gel + 5% salt tail in with 200 sx of Class "C" cement + 2% CaCl ₂ , circulate cement to surface.
5-1/2"	Production	Set 11500' of 5-1/2" 17# LT&C csg. Cement with 500 sx of Class "C" 35/65 POZ + additives, tail in with 190 sx of 50/50 POZ Class "H" + 10% Salt + .25% Dispersant + 2% Gel. Estimate top of cement 500' above uppermost productive interval. Cement volumes will be adjusted based on open-hole caliper log.

APPLICATION TO DRILL

OCEAN ENERGY, INC.

Burton Flat Deep Unit No. 42
Ul or Lot #M, Sec. 27, T20N, R28E

10. Pressure control equipment: Exhibit "E". A Series 1500 5000-PSI working pressure B.O.P. consisting of a double ram type preventor with a bag type annular preventor. BOP unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nipped up on 13-3/8" casing and will be operated at least once each 24 hr. period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized from 7000' to TD. No abnormal pressure or temperature is expected while drilling

11. Proposed mud circulating system:

40-600'	8.4-9.0	32-36	NC	Fresh water mud use paper to control seepage add Bentunite/ Soda Ash for Viscosity.
500-2000'	10.1-10.5	32-38	NC	Brine water Salt-Gel add paper to control seepage, high viscosity sweeps to clean hole.
2000-8000'	8.4-8.8	32-38	NC	Fresh water use caustic soda to maintain pH @ 9.5-10.5 high viscosity sweeps to clean if necessary.
8000-11500'	8.8-9.2	34-38 40-45	8-10cc 6-10 for DST	Fresh water Polymer maintain pH with Caustic Soda @ 9.5-10.5 high viscosity sweeps to clean if necessary.

Sufficient mud materials will be kept on location or available at the nearest stocking points at all times in order to combat lost circulation and unexpected kicks. In order to run DST's, open hole logs and casing the viscosity and water loss may have to be adjusted to meet these needs.

12. Testing, logging and casing program:

- A. Open hole logs: Fluid caliper from 500-2000'.
 - B. CNL/Gamma Ray with caliper from TD to surface.
 - C. Dual Induction, Dual Induction, Compensated Sonic, Gamma Ray from TD to 3000'.
 - D. Cement Bond Log Gamma Ray and CCL TD to top of cement.
 - E. Mud logger on at 5000' to TD.
- DST's as warranted in Bone Spring, Atoka, and Morrow.

13. Potential hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered; H₂S detectors will be in place to detect any presence after setting the intermediate casing. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 4200 PSI, estimated BHT 170°.

14. Anticipated starting date and duration of operation:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. Other facets of operations:

After running casing, cased hole gamma ray cement bond and collar logs will be run from total depth over possible pay intervals. The Morrow pay will be perforated and stimulated. The well will be swab tested and potentialized as a gas well.

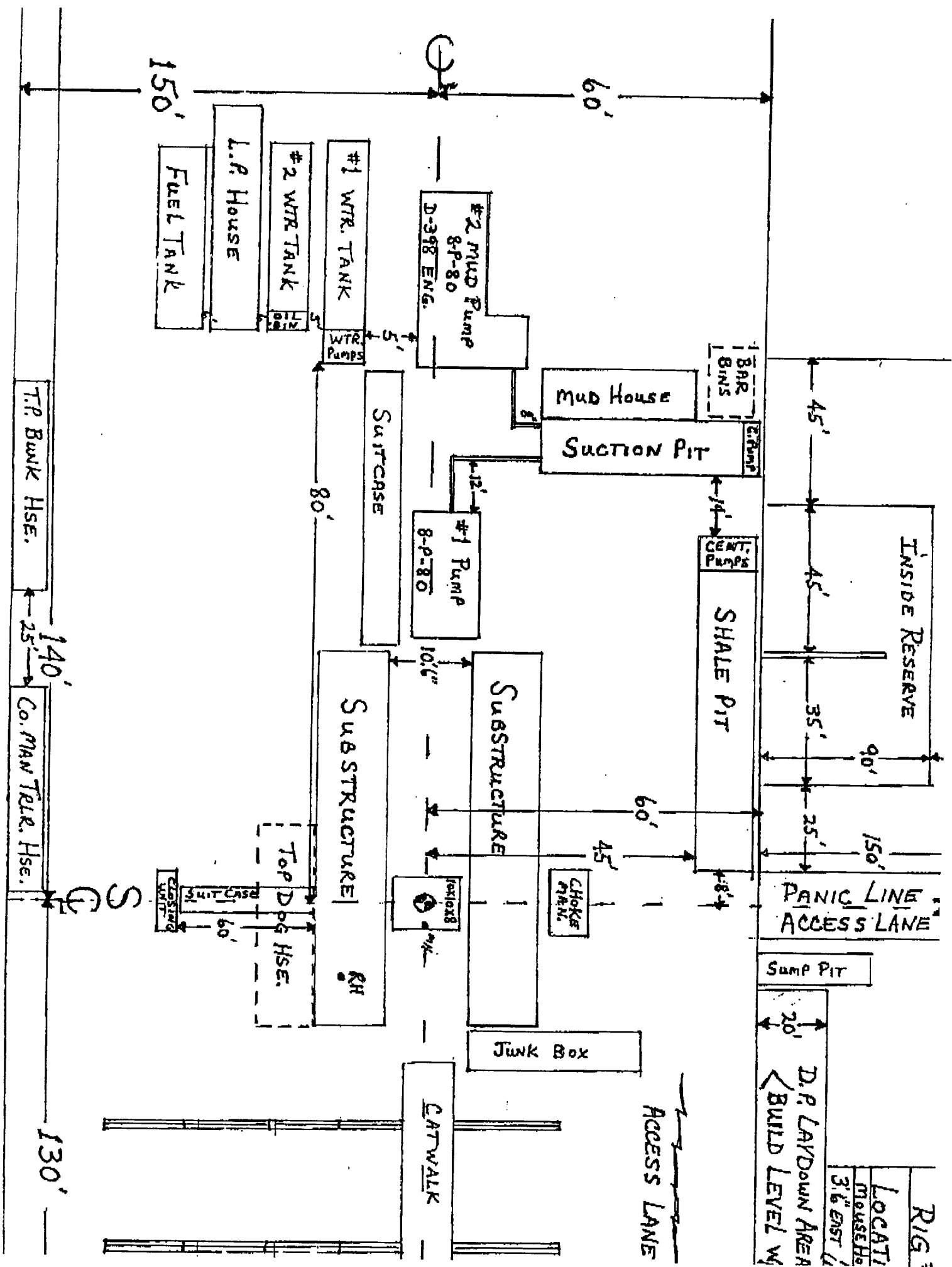
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

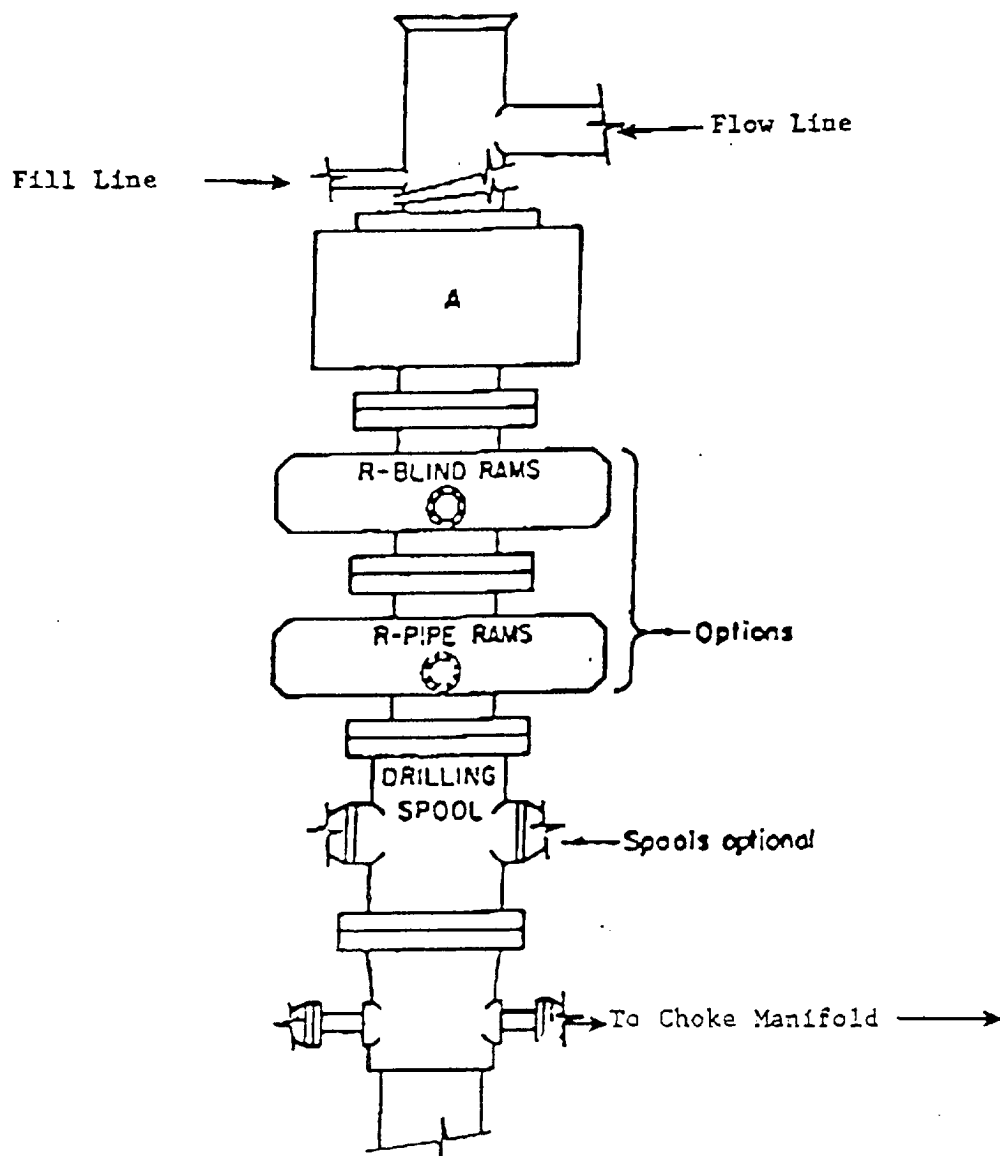
1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.
2. H₂S Detection and Alarm Systems
 - A. H₂S 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, H₂S present in dangerous concentration. Only emergency personnel admitted to location.
5. Well control equipment
 - A. See exhibit "E"
6. Communication
 - 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 location is near any dwelling a closed D.S.T. will be performed.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

8. Drilling contractor supervisor will be required to be familiar with the effects H_2S has on tubular goods and other mechanical equipment.
9. If H_2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H_2S scavengers if necessary.

RIG LAYOUT





ARRANGEMENT SRRA

1300 Series
5000# Working Pressure

EXHIBIT "E"
B.O.P. SKETCH

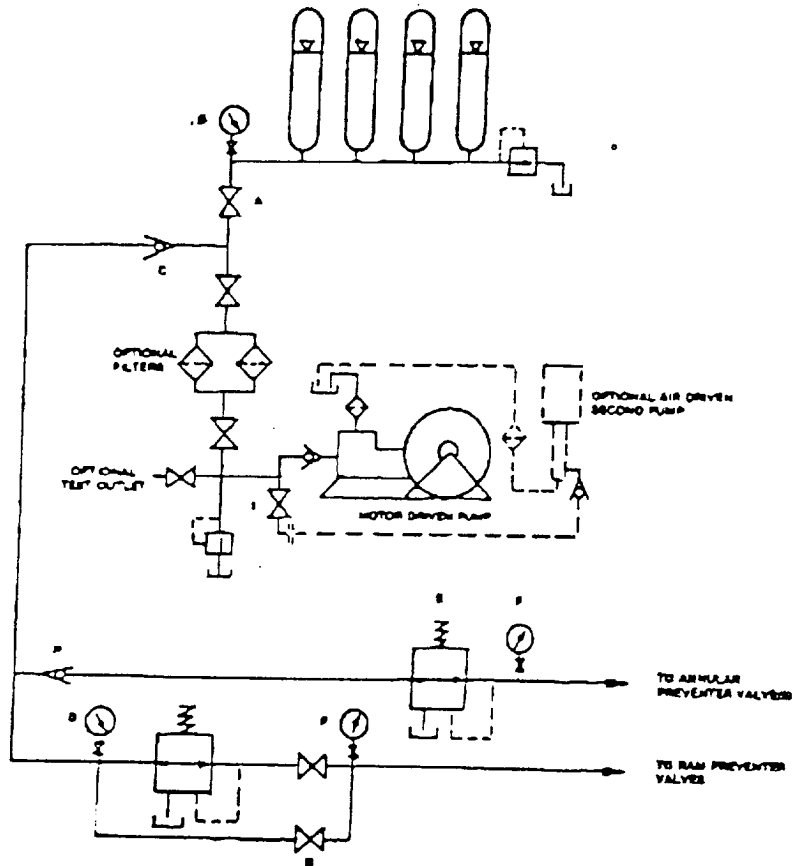


FIGURE K&-1. The schematic sketch of an accumulator system shows required and optional components.

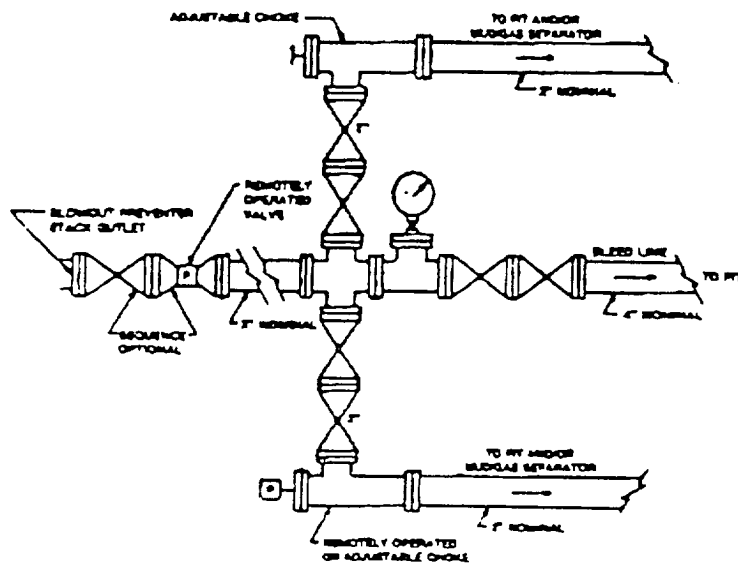


FIGURE R4-2. Typical choke manifold availability for 500 rated working pressure service - surface installation.

EXHIBIT "E-1"
CHOKE MANIFOLD & CLOSING UNIT

SURFACE USE PLAN

OCEAN ENERGY, INC.

Burton Flat Deep Unit

660' FSL & 660' FWL, Sec. 27, T20S, R28E, UL or Lot No. M

Eddy County, New Mexico

1. Existing roads:

Area maps, Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed 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 as staked.
- B. Directions to location from the junction of Co. Rd 206 and Co. Rd 600, go East on lease road for 5.6 miles; thence northeast for 1.7 miles to the Deep Unit #41 road; thence 0.2 miles to proposed lease road.
- C. Lay 3" pipelines and construct power lines along existing roads and pipeline R-O-W's necessary to produce this well.

2. Planned access roads:

Approximately 2000' of new road will be constructed.

- A. The access road will be crowned and ditched to a 12'00" wide travel surface with a 40' right-of-way.
- B. Gradient on all roads will be less than 5.00%.
- C. No turnouts will be necessary.
- D. If needed, road will be surfaced with a minimum of 4" of caliche.
- E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
- F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Topography.

3. Location of existing wells in a one-mile radius Exhibit "A-1"

- | | |
|--------------------|---------------------------|
| A. Water wells | None known |
| B. Disposal wells | None known |
| C. Drilling wells | None known |
| D. Producing wells | As shown on Exhibit "A-1" |
| E. Abandoned wells | As shown on Exhibit "A-1" |

4. If, upon completion this well is a producer OCEAN ENERGY, INC. will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied with a Sundry Notice.

5. Location and type of water supply:

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

6. Source of construction material:

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

7. Methods of handling waste material:

- A. Drill cuttings will be disposed of in the reserve pit.
- B. All trash junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary landfill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.

SURFACE USE PLAN

OCEAN ENERGY, INC.

Burton Flat Deep Unit

**660' FSL & 660' FWL, Sec. 27, T20S, R28E, UL or Lot No. M
Eddy County, New Mexico**

- D. Sewage from living quarters will drain into holes with a minimum depth of 10'. These holes will be covered during drilling and will be back filled upon completion. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
 - E. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for breaking out. In the event that drilling fluids do not evaporate in a reasonable time they will be hauled off by transports and be disposed of at a state approved disposal facility. Later pits will be broken out to speed drying. Water produced during testing will be put in reserve pits. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.
8. Ancillary facilities:
- A. No camps or airstrips to be constructed.
9. Well site layout:
- A. Exhibit "D" shows location and rig layout.
 - B. This exhibit indicates proposed location of reserve and trash pits; and living facilities.
 - C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be lined.
 - D. The reserve pit is to be lined with PVC or polyethylene liner. 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 forth 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 recountered to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.
- Should the well be a producer, the previously noted procedures will apply to those areas, which are not required for production facilities.
11. Other information:
- A. Topography consists of sand dunes, sandy soils, with native grasses consisting Sand Sage, Scrub Oak Snakeweed and mesquite. Drainage is westerly toward the Querecho Plains.
 - B. The surface is owned by The Bureau of Land Management, U.S. Department of Interior.
 - C. An archaeological survey will be conducted and the results will be submitted to the Bureau of Land Management, Carlsbad, New Mexico.
 - D. No dwellings within one mile of location.

SURFACE USE PLAN

OCEAN ENERGY, INC.

Burton Flat Deep Unit
660' FSL & 660' FWL, Sec. 27, T20S, R28E, UL or Lot No. M
Eddy County, New Mexico

12. Operators representative:

Field representative to contact regarding compliance with Application to Drill and surface Use Plan is:

Before APD is approved:

OCEAN ENERGY, INC.
4305 N. Garfield, Suite 200A
Midland, TX 79705
Marty Davis
Office phone 915-683-3003
Mobile phone (505) 390-6158

Before APD is approved:

OCEAN ENERGY, INC.
1001 Fannin, Suite 1600
Houston, TX 77002
Bill Billman or Wiley Kirk
Billman's phone 713.265.6605
Billman's Mobile 713.303.0466
Kirk's phone 713.265-6655
Kirk's Mobile 281.799.5723

If additional information is required to complete this APD please contact Joe Janica (local agent) or Jeanie McMillan at the following:


Joe Janica
726 East Michigan, Suite 188
Hobbs, New Mexico 88240
Office 505.391.8503
Mobile 505.390.1598

Jeanie McMillan
Ocean Energy, Inc.
1001 Fannin, Suite 1600
Houston, TX 77002
Office 713.265-6834
Mobile 713.301.4871

13. Certification:

I hereby 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; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by OCEAN ENERGY, INC., its contractors/subcontractors in conformity with this plan and the terms and the conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for filing a false statement.

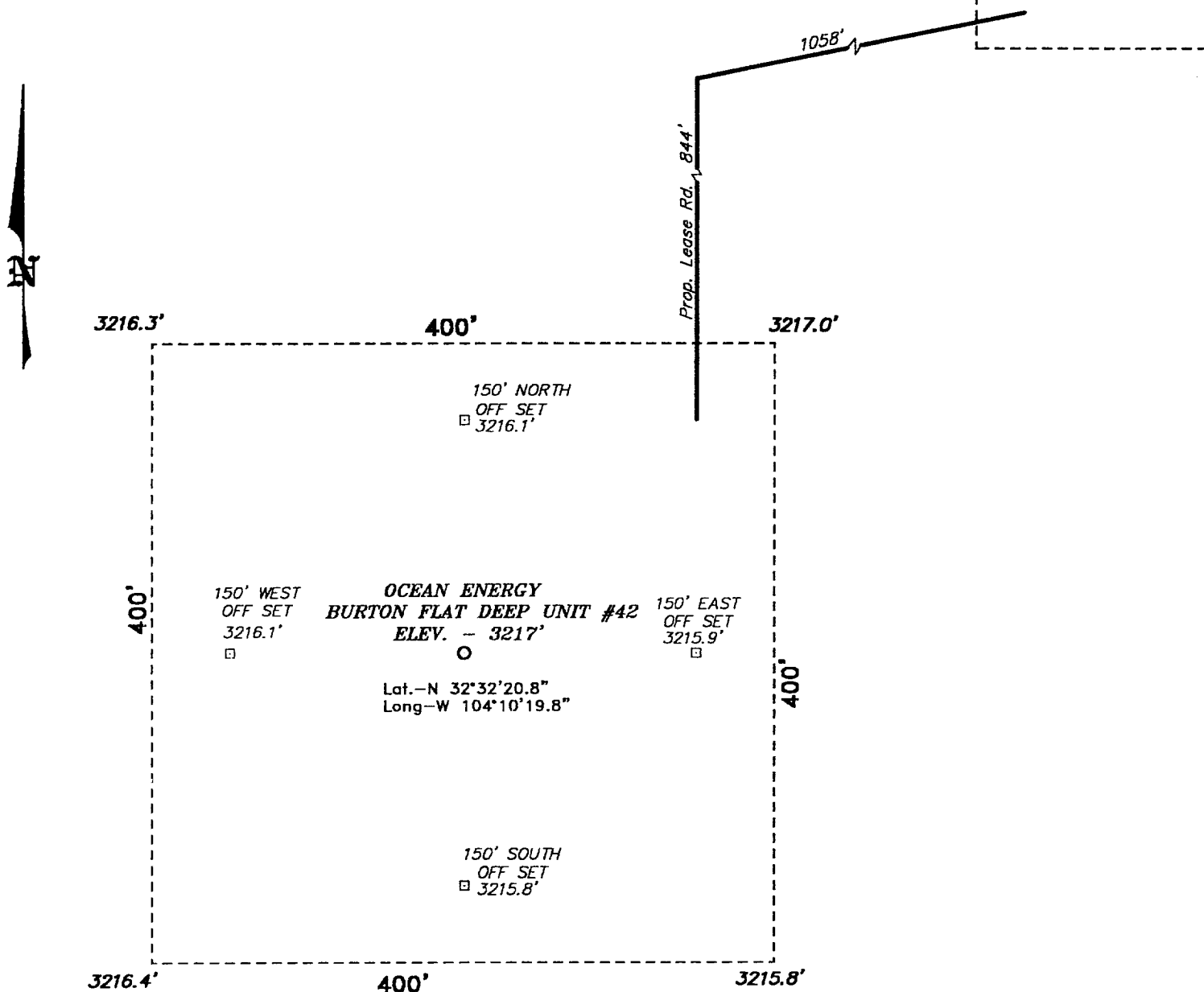
DATE: 8/28/01
NAME: Jeanie McMillan
TITLE: Regulatory Specialist



SECTION 27, TOWNSHIP 20 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY,

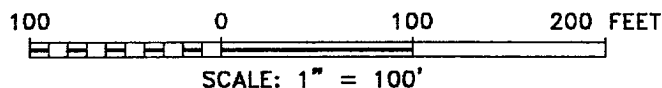
NEW MEXICO.

DEEP UNIT #41



Directions to Location:

FROM THE JUNCTION OF CO. RD. 206 & CO. RD. 600, GO EAST ON LEASE ROAD FOR 5.6 MILES; THENCE NORTHEAST FOR 1.7 MILE TO THE DEEP UNIT #41 ROAD; THENCE 0.2 MILE TO PROPOSED LEASE ROAD.



BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 1733

Drawn By: **K. GOAD**

Date: 08-10-2001

Disk: KJG CD#4 - OCN1733A.DWG

OCEAN ENERGY

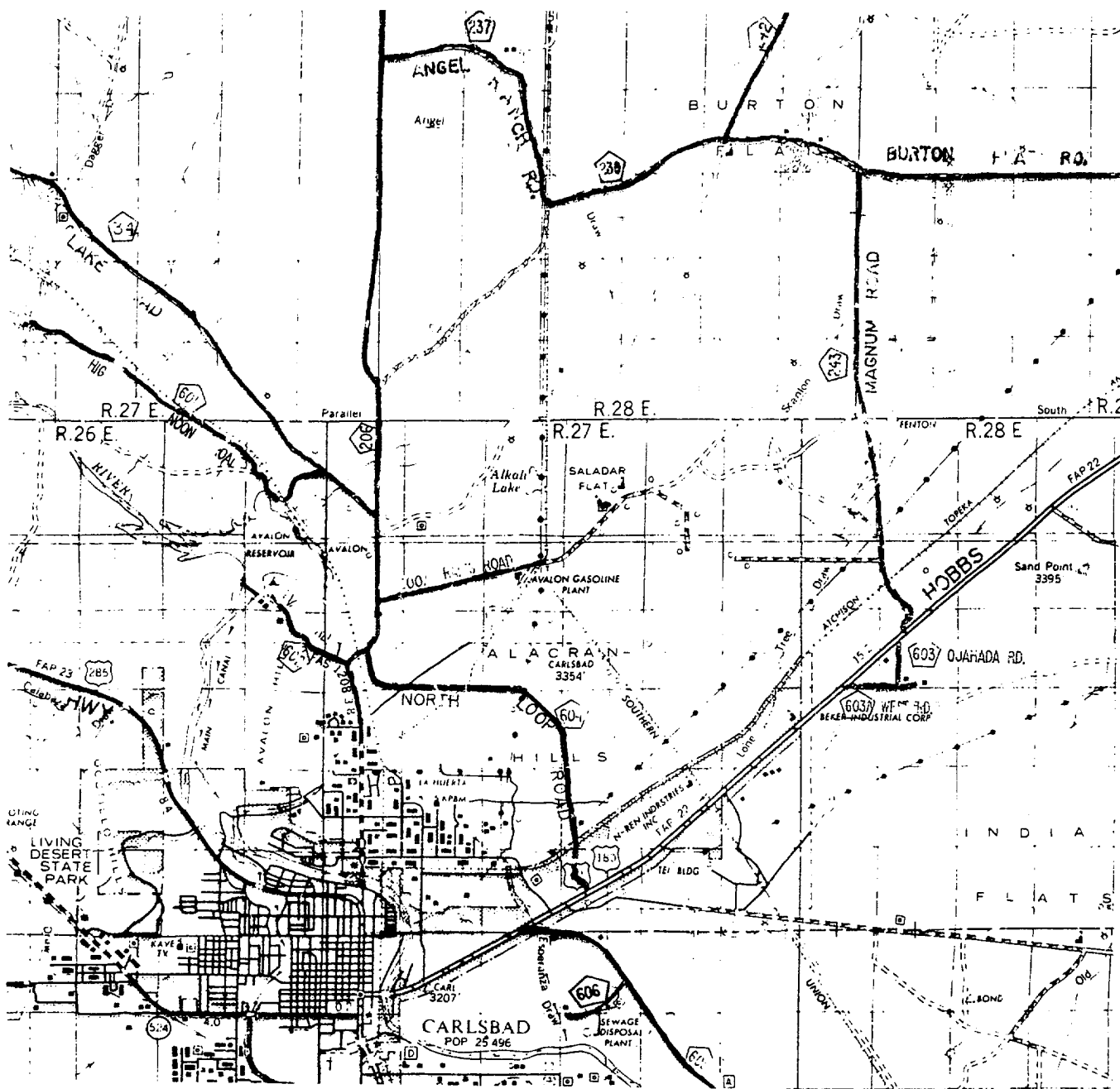
REF: BURTON FLAT DEEP UNIT #42 / Well Pad Topo

THE BURTON FLAT DEEP UNIT #42 LOCATED 660' FROM
THE SOUTH LINE AND 660' FROM THE WEST LINE OF
SECTION 27, TOWNSHIP 20 SOUTH, RANGE 28 EAST,

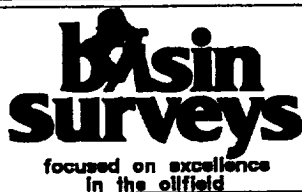
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 08-08-2001

Sheet 1 of 1 Sheets



BURTON FLAT DEEP UNIT #42
 Located at 660' FSL and 660' FWL
 Section 27, Township 20 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

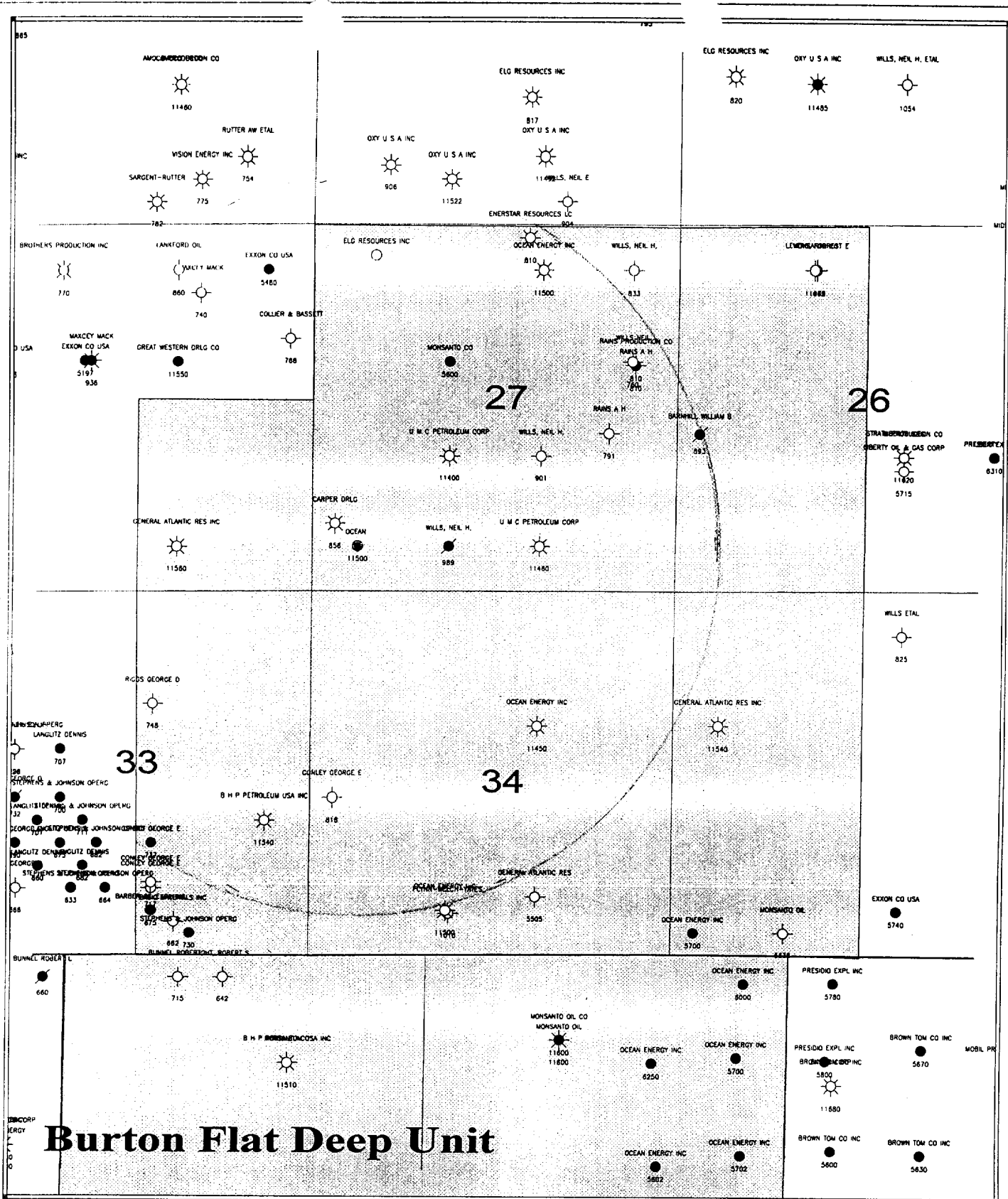
W.O. Number: 1733AA - KJG CD#4

Survey Date: 08-08-2001

Scale: 1" = 2 MILES

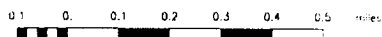
Date: 08-10-2001

OCEAN ENERGY



Burton Flat Deep Unit

Scale 1:24000.



Ocean Energy, Inc.		
NM: NORTHWEST SHELF BFDU1		
EXHIBIT A-1		
Frank Matycka		09/04/2001
	Scale 1:24000	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
NM-18219-0560294

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

1b. TYPE OF WELL

OIL ☐
WELL

GAS ☒
WELL

OTHER ☐

SINGLE ☐

MULTIPLE ☐

7. UNIT AGREEMENT NAME

Burton Flat Deep Unit

8. FARM OR LEASE NAME

BFDU

2. NAME OF OPERATOR

OCEAN ENERGY INC.

3. ADDRESS OF OPERATOR

1001 Fannin, Suite 1600, Houston, TX 77002 (713) 265-6000 X-6834

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At Surface **660' FSL & 660' FWL, Sec. 27, T20S, R28E**

At proposed Prod. Zon **Same**

9. WELL NO.

42

10. FIELD AND POOL OR WILDCAT

Burton Flat: Morrow

11. SEC., T., R., M., OR BLK.

AND SURVEY OR AREA

Sec. 27, T20S, R28E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 9 miles north of Carlsbad, NM

12. COUNTY OR PARISH

Eddy County,

13. STATE

NM

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drlg. unit line, if any)

660'

16. NO. OF ACRES IN LEASE

120

17. NO. OF ACRES ASSIGNED TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT.

450'

19. PROPOSED DEPTH

11500'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 3217'

22. APPROX. DATE WORK WILL START*

October 15, 2001

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
36"	20"	60#	40'	ready-mix to surface
17-1/2"	13-3/8"	48#	600' 500'	500 sxs POZ & Class C
11"	8-5/8"	32#	2780'	800 sxs POZ & Class C
7-7/8"	5-1/2"	17#	11500'	690 sxs POZ & Class C

Capitan Controlled Water Basin

1. Drill 36" hole to 40'. Set 40' of 20" conductor & cement to surface with ready-mix
2. Drill 17-1/2" hole to 600'. Run & set 600' of 13-3/8" H-40, 48# ST&C csg, cmt w/500 sx POZ & Cl C cement + 2' circulate to surface.
3. Drill 11" hole to 2780'. Run & set 2780' of 8-5/8" K-55, 32# LT&C csg. Cmt w/800 sx Class C + 6% gel + 5% salt, circ to surface.
4. Drill 7-7/8" hole to 11500'. If logs indicate commercial production, run & set 11500' of 5-1/2" 17# LT&C csg. Cement w/500 sx Class C 35/65 POZ w/additives, tail in with 190 sx 50/50 POZ Class H + 10% salt + .25 dispersant + 2% gel. Estimated top of cement 500' above uppermost productive interval. Cement volumes will be adjusted based on open hole caliper log.

**APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Jeannie McMillan TITLE Sr. Regulatory Specialist DATE 8/31/2001

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval 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.

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

IS/ JOE G. LARA

Acting FIELD MANAGER

DATE OCT 15 2001

*See Instructions On Reverse Side

APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001, makes 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.

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
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

API Number	Pool Code 73280	Pool Name BURTON FLAT; MORROW
Property Code	Property Name BURTON FLAT DEEP UNIT	Well Number 42
OGRID No. 169355	Operator Name OCEAN ENERGY, INC.	Elevation 3217'

Surface Location

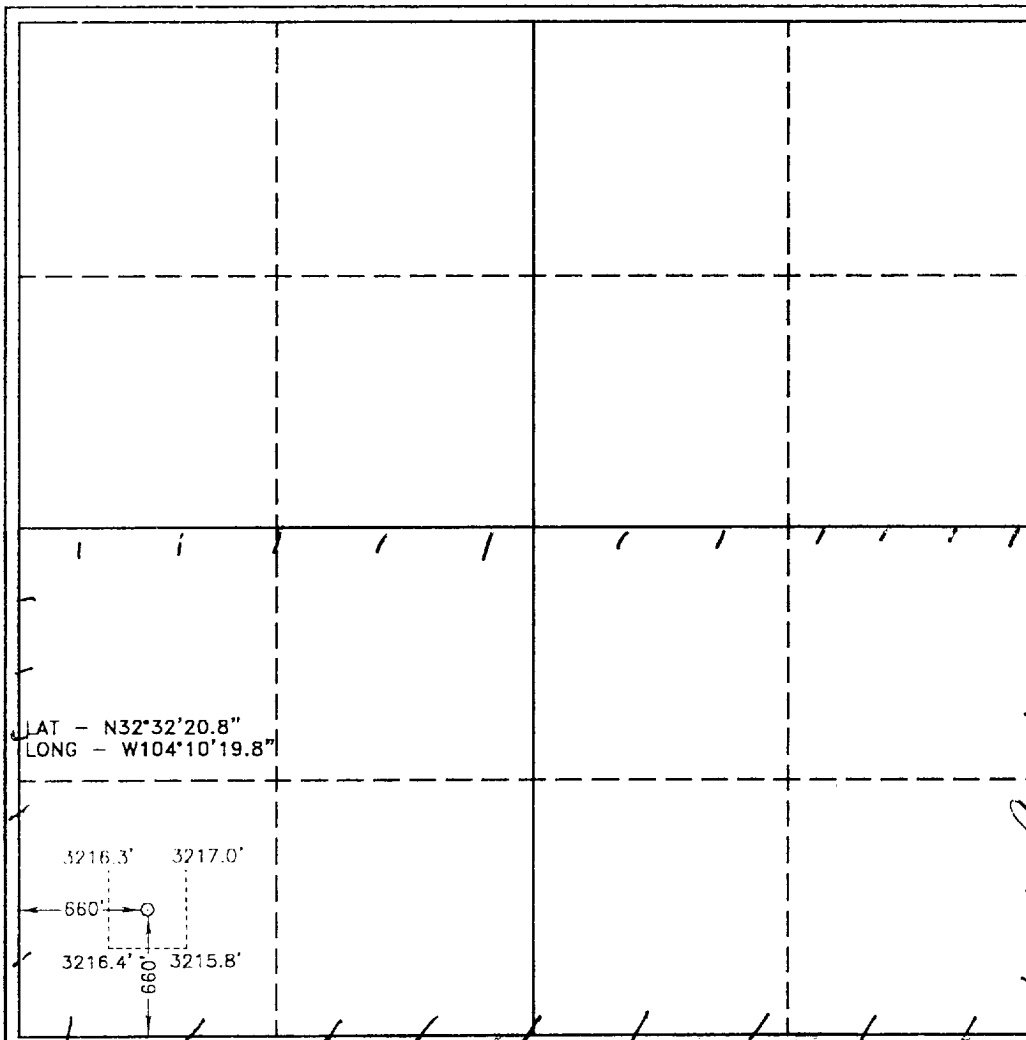
UL or lot No. M	Section 27	Township 20 S	Range 28 E	Lot Idn	Feet from the 660	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Jeanie McMillan</i> Signature Jeanie McMillan Printed Name Sr. Regulatory Specialist Title 8/31/01 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>August 8, 2001 Date Surveyed GARY L. JONES Signature & Seal of Professional Surveyor 7977 M.O. No. 1733 Certificate No. Gary L. Jones 7977 BASIN SURVEYS</p>

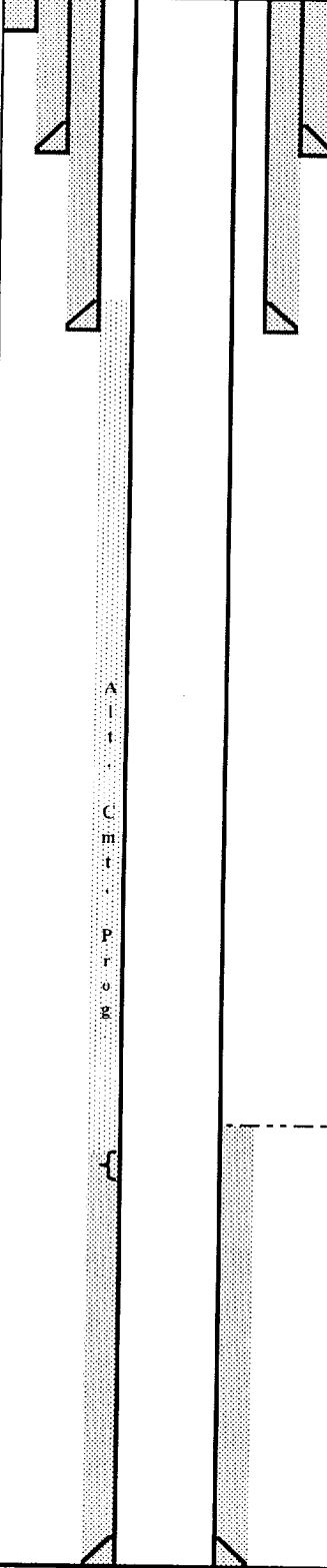
OCEAN ENERGY, INC.

Well Summary

Lease: Burton Flat Deep Unit
Well: #42
Area: Burton Flat Deep Unit
Test: Morrow & Strawn

Location: 660' FSL & 660' FWL
BHL: Same
Survey: Section 27, T20S, R28E
Eddy Co., New Mexico

Drig. Egnineer: RG Trueheart
Rig: Nabors 319
Elevation: +/- 3220
RKB: +/- 3235

Logs	Formation	Lithology	Depth MD/TVD	Casing Profile	Hole Size	Casing Details	Mud Wt. & Type	Max. Dogleg Severity
			600'		17 1/2" Hole	13 3/8" 40# STC Surface	Water	
	Capitan	Reef	1,010'		11" Hole		Spud Mud MW=8.6	<1° / 100'
None			2,780'			8 5/8" 32# LTC Intermediate	FG=13ppg	<2° / 100'
	Delaware	Shale	2,935'		7 7/8" Hole		8.6 ppg	
Mud Logger On @ 5,000'	Bone Springs	Shale & Sd	5,220'	{				
	1st BS	Sandstone	6,520'					
	2nd BS	Sandstone	7,320'					
	3rd BS	Sandstone	8,460'					
	Wolfcamp	Shaley Lime	8,900'	{			Water Base Mud	
DST	Strawn	Carbinate	10,100'					
E-Logs @ TD	Atoka	Sandstone	10,500'					
CNL/LDT PEF	Morrow	Sandstone	11,000'					
DIL/RXO	Barnett	Shale	11,370'	{				
Sonic								
GR-Cal	TD		11,500'			5 1/2" 17# LTC P-110 & N-80 Production	MW=10.0	<2° / 1000'