

KM PRODUCTION COMPANY  
P.O. Box 2406  
Farmington, NM 87401  
(505) 325-6900

RECEIVED  
JUL 5 1988

June 30, 1988

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Mr. John Baza

RE: Zinn Petroleum Company  
Bluff Bench State 11-30  
1980' FSL & 1207' FEL  
Section 30, T39S, R22E  
San Juan County, Utah

Gentlemen:

This letter accompanies the Application for Permit to Drill the above-referenced well and serves as a request for approval of this well as an unorthodox location. This well is staked 347 feet too close to the quarter-quarter line according to Utah spacing requirements. This well cannot be drilled in an orthodox location due to rough terrain. The topographic map enclosed with the APD doesn't accurately depict the topography due to too large of a contour interval.

Zinn Petroleum Company owns the mineral rights to the entire Section 30, T39S, R22E. Therefore, the drilling of this unorthodox well will not infringe upon mineral rights of another operator. If you require anything further for this unorthodox well request, please contact me.

Yours truly,

Kevin H. McCord  
Agent for Zinn Petroleum Co.

KHM/lmc

Enclosure: APD

cc: Mr. C. B. Caire, Zinn Petroleum w/encls.

**RECEIVED**  
(Other instructions on reverse side)  
**JUL 5 1988**

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

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

**1a. TYPE OF WORK**  
 DRILL       DEEPEN       PLUG BACK

**b. TYPE OF WELL**  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

**2. NAME OF OPERATOR**  
 Zinn Petroleum Company

**3. ADDRESS OF OPERATOR**  
 1100 Milam, Suite 2100, Houston, TX 77002

**4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\***  
 At surface: 1980' FSL & 1207' FEL NESE  
 At proposed prod. zone: same

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

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

**16. NO. OF ACRES IN LEASE**  
 953.36

**17. NO. OF ACRES ASSIGNED TO THIS WELL**  
 40

**18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.**  
 5850' Desert Creek

**19. PROPOSED DEPTH**  
 5850'

**20. ROTARY OR CABLE TOOLS**  
 Rotary

**21. ELEVATIONS (Show whether DF, RT, GR, etc.)**  
 4696'ft. GL      4708' RKB

**22. APPROX. DATE WORK WILL START\***  
 On or before 8/1/88

**5. LEASE DESIGNATION AND SERIAL NO.**  
 ML No. 35880

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME**

**7. UNIT AGREEMENT NAME**

**8. FARM OR LEASE NAME**  
 Bluff Bench State

**9. WELL NO.**  
 11-30

**10. FIELD AND POOL, OR WILDCAT**  
 Wildcat

**11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA**  
 Sec. 30, T39S, R22E

**12. COUNTY OR PARISH**      **13. STATE**  
 San Juan      Utah

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#/ft	90'	100 ft <sup>3</sup> Class B cement
12 1/4"	8 5/8"	24.0#/ft	1700'	1050 ft <sup>3</sup> light & Class B cement
7 7/8"	4 1/2"	10.5#/ft	5850'	250 ft <sup>3</sup> 50/50 pozmix cement

Will drill a 17 1/2" hole to 90 ft. and set 90 ft. of 13 3/8" 54.5#/ft conductor casing with 100 ft<sup>3</sup> of Class B cement circulated to the surface. Will drill a 12 1/4" hole to 1700 ft. and set 1700 ft. of 8 5/8" 24.0#/ft surface casing with 1050 ft<sup>3</sup> light and Class B cement circulated to the surface. Will drill a 7 7/8" hole to 5850 ft. Will run Induction and Density logs and evaluate production potential of well. Drill stem tests and cores may be taken depending on well shows. If productive, will set 5850 ft. of 4 1/2" 10.5#/ft longstring casing with 250 ft<sup>3</sup> of 50/50 pozmix cement to adequately cover the Upper Ismay formation. If the well is nonproductive, will plug and abandon as per Utah state requirements. Circulating medium will be clear water, natural mud and water loss control additives. No abnormal pressures or temperatures are anticipated. Blowout preventer schematic is attached.

**ESTIMATED TOPS:**

Entrada - 313	Upper Ismay - 5486
Chinle - 1558	Lower Ismay - 5592
Cutter - 2472	Desert Creek - 5694
Hermosa - 4589	Total Depth - 5850

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.

**24. SIGNED** Kevin H. McCord      **TITLE** Agent for Zinn Petroleum Co.      **DATE** 6/30/88

(This space for Federal or State office use)

**PERMIT NO.** 43-037-31442      **APPROVAL DATE** \_\_\_\_\_

**APPROVED BY** \_\_\_\_\_      **TITLE** \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:**

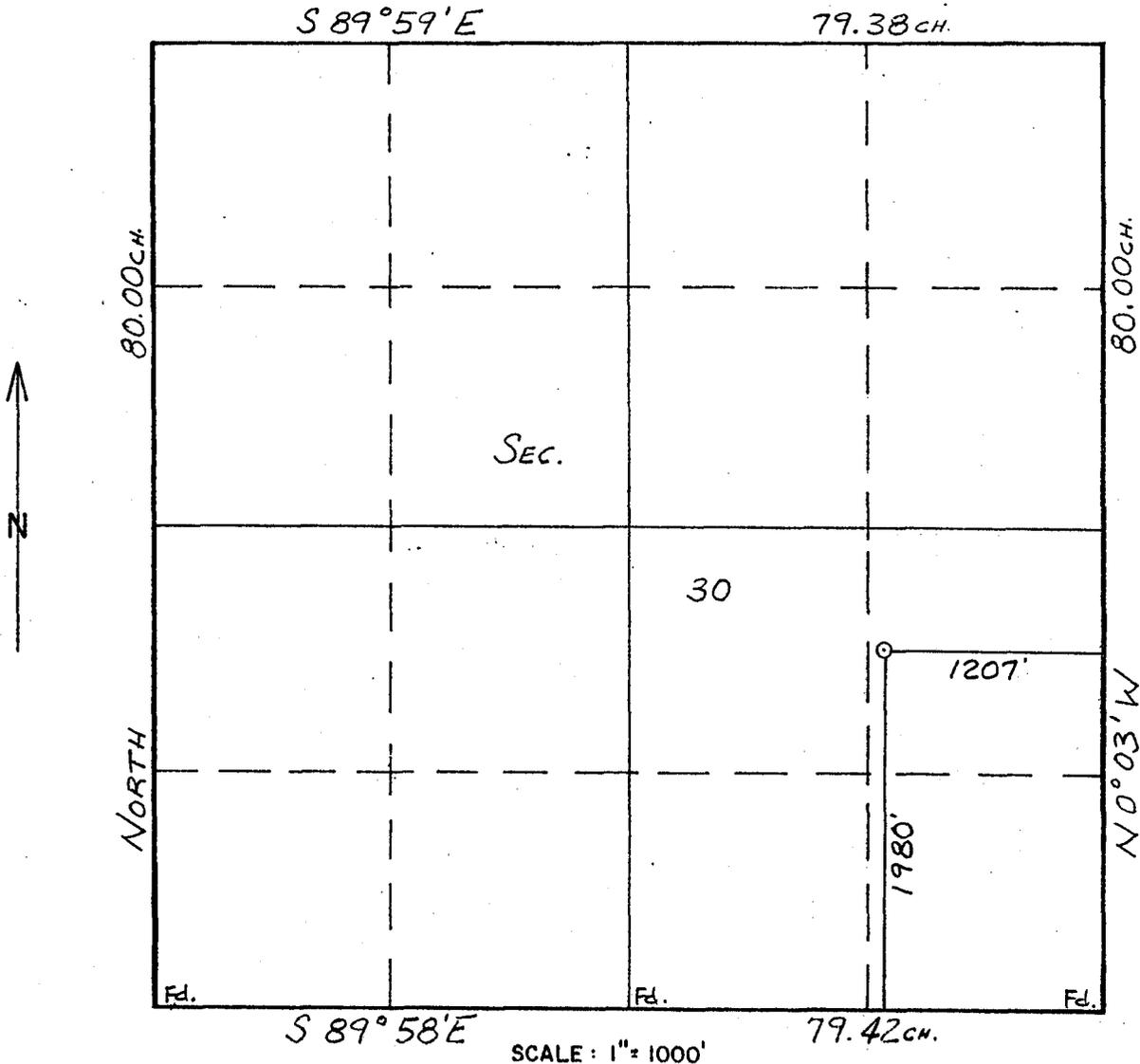
**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

**DATE:** 7-26-88      **BY:** John R. Dyer

**WELL SPACING:** R#15-3-3

\*See Instructions On Reverse Side

COMPANY ZINN PETROLEUM COMPANY  
 LEASE BLUFF BENCH STATE WELL NO. 11-30  
 SEC. 30, T. 39 S, R. 22 E  
 COUNTY SAN JUAN STATE UTAH  
 LOCATION 1980'FSL & 1207'FEL  
 ELEVATION 4696

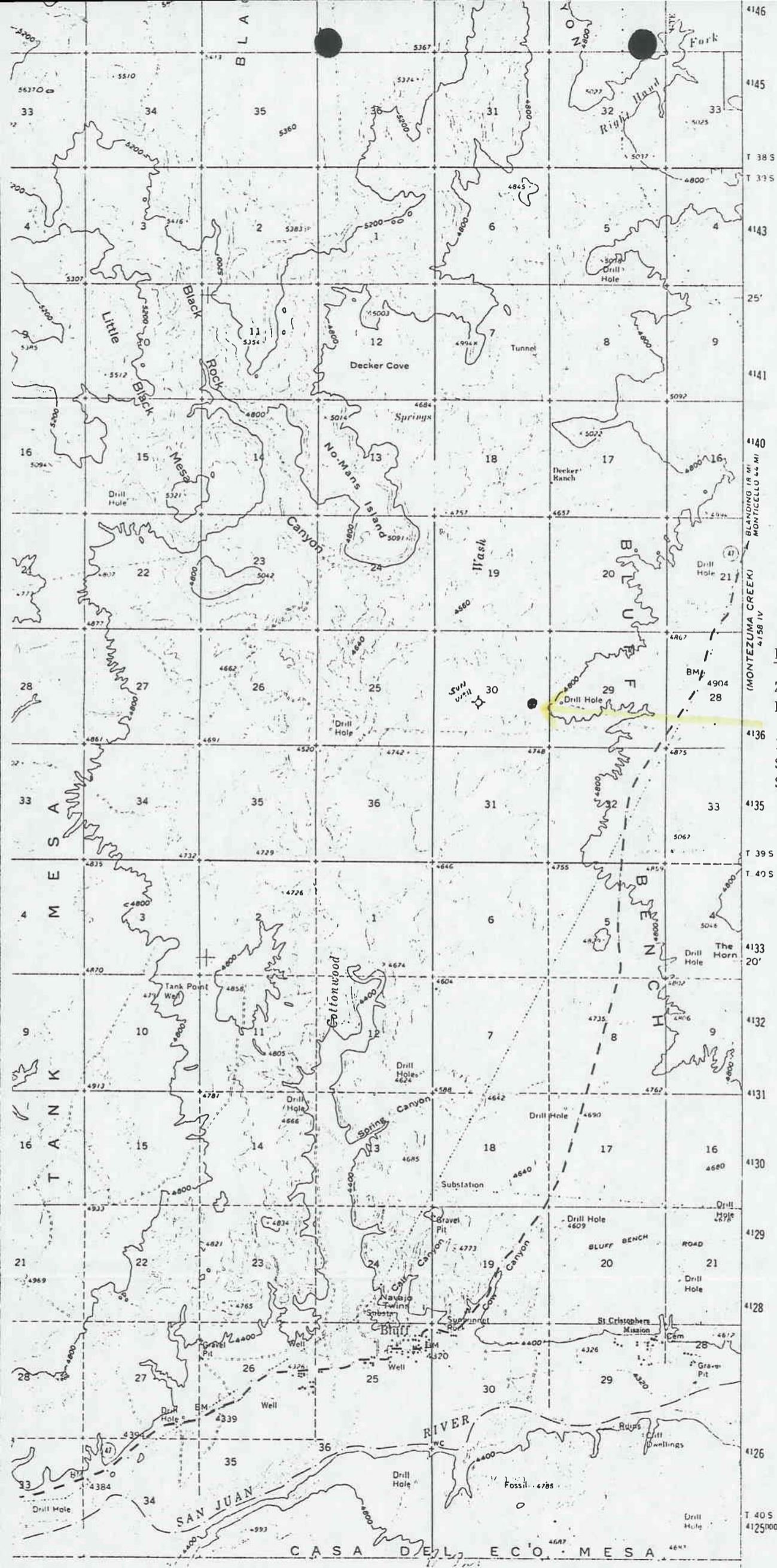


THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD  
 NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION  
 AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND BELIEF.



WILLIAM E. MAHNKE II  
 NEW MEXICO P.L.S. NO 8466

SURVEYED JUNE 27, 1988

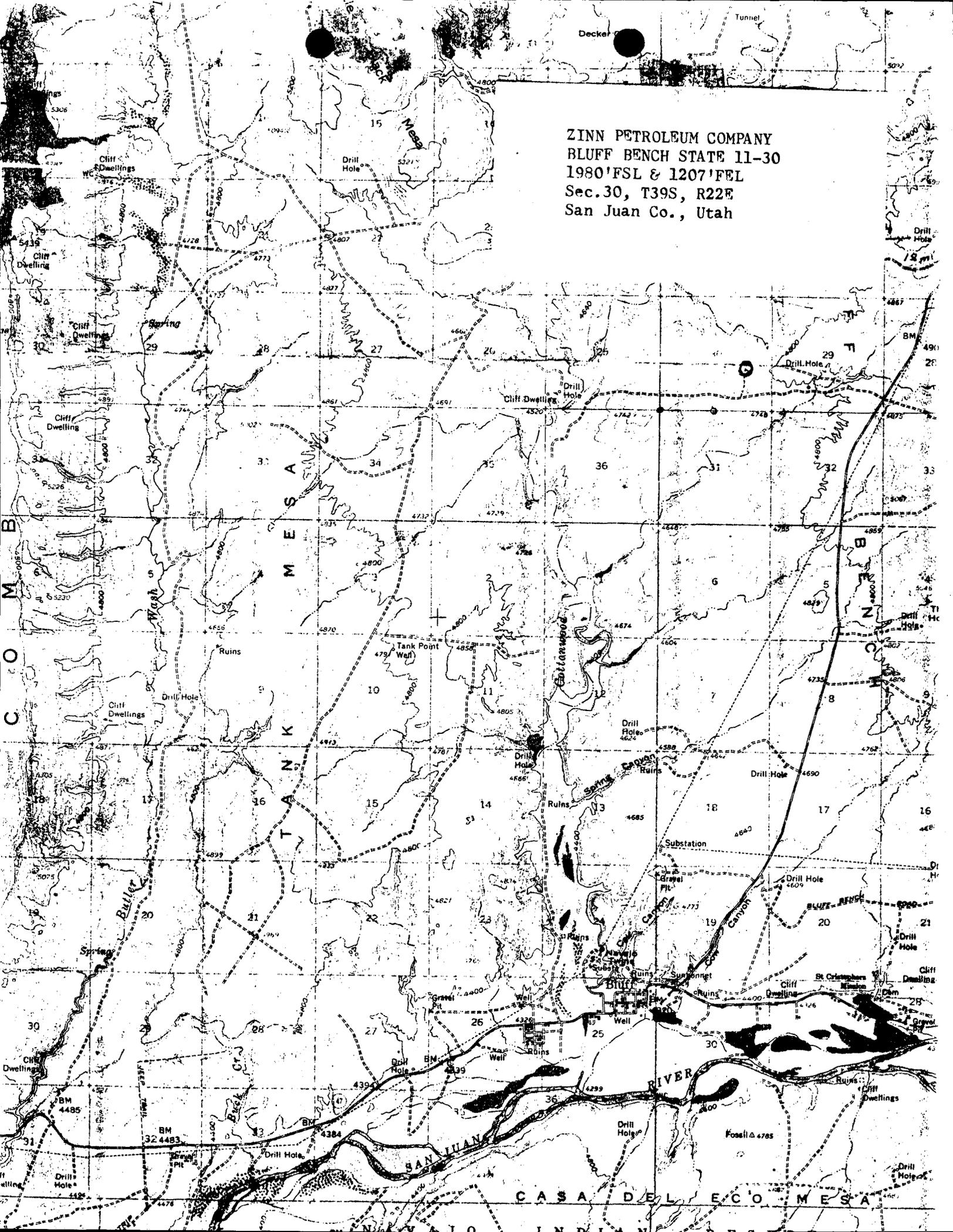


**PROPOSED LOCATION:**

Zinn Petroleum Co.  
 Bluff Bench State  
 11-30  
 1980 FSL & 860 FEL  
 Sec. 30, T39S, R22E  
 San Juan County, UT

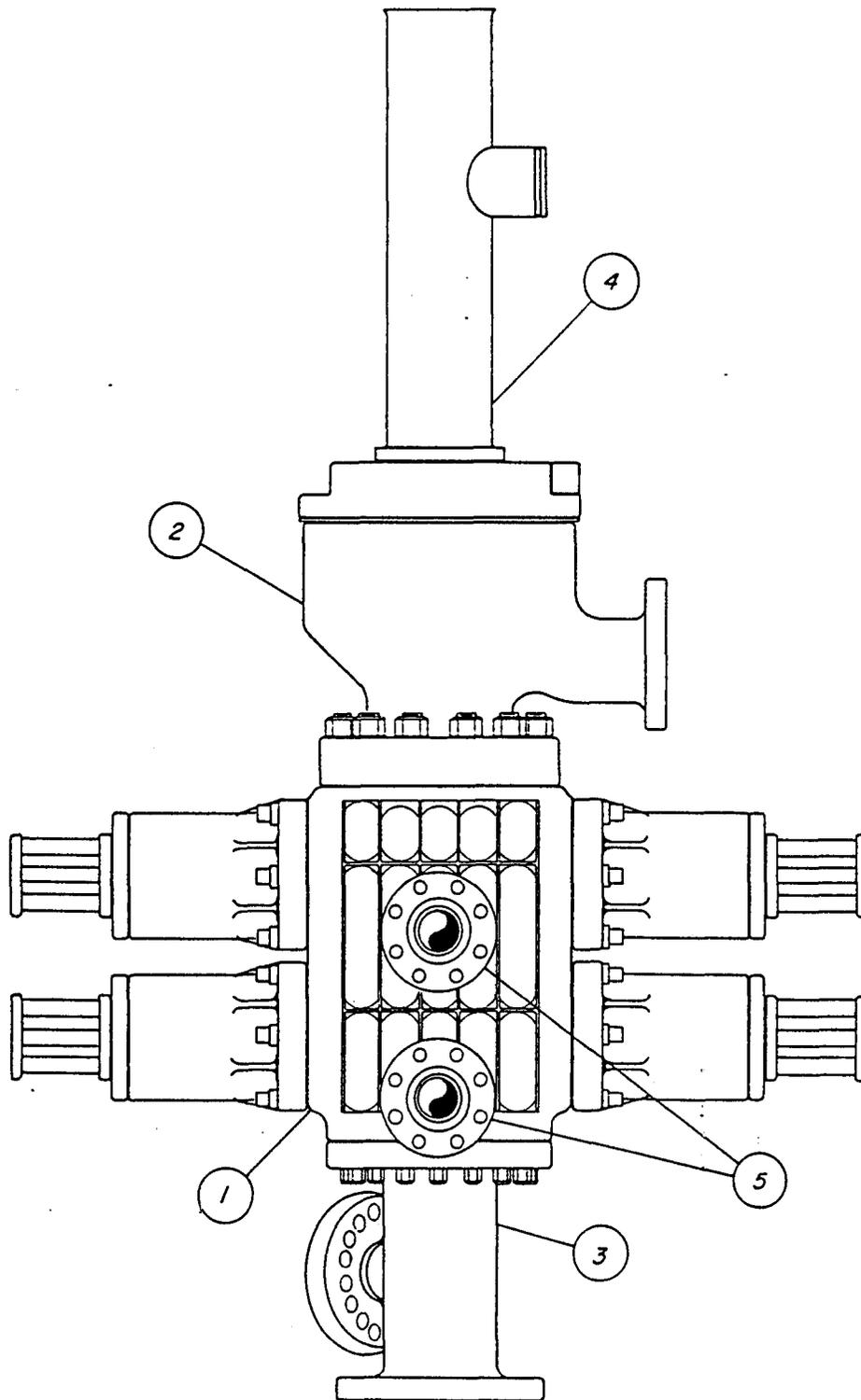


ZINN PETROLEUM COMPANY  
BLUFF BENCH STATE 11-30  
1980' FSL & 1207' FEL  
Sec. 30, T39S, R22E  
San Juan Co., Utah



ZINN PETROLEUM COMPANY

Bluff Bench State 11-30  
1980' FSL & 1207' FEL  
Section 30, T39S, R22E  
San Juan County, Utah



- ① SHAFFER 11" 3000 LB MODEL LWS MANUAL LOCK RAM BLOWOUT PREVENTER
- ② GRANT 11" 3000 LB. ROTATING DRILL HEAD
- ③ 11" SPOOL
- ④ 11" FLOW NIPPLE
- ⑤ 4" 3000 LB. NOZZLE

RECEIVED  
**TEMPORARY**  
JUL 5 1988

RECEIVED  
**FILING FOR WATER IN THE  
STATE OF UTAH**  
JUL 1 1988  
WATER RIGHTS  
**APPLICATION TO APPROPRIATE WATER**

Rec. by gpr  
Fee Rec. 30.00  
Receipt # 24524  
Microfilmed \_\_\_\_\_  
Roll # \_\_\_\_\_

**WATER RIGHTS**  
For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

\* WATER RIGHT NO. 09 - 1585 \* APPLICATION NO. A T63352

1. \*PRIORITY OF RIGHT: July 5, 1988 \* FILING DATE: July 5, 1988

2. OWNER INFORMATION 505-325-6900  
Name(s): Zinn Petroleum Co. c/o Kevin McCord, Agent Interest: \_\_\_\_\_ %  
Address: P.O. Box 2406  
City: Farmington State: New Mexico Zip Code: 87499  
Is the land owned by the applicant? Yes \_\_\_\_\_ No  BLM  
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: \_\_\_\_\_ cfs and/or 1.10 ac-ft

4. SOURCE: Underground water well \* DRAINAGE: \_\_\_\_\_  
which is tributary to \_\_\_\_\_  
which is tributary to \_\_\_\_\_  
POINT(S) OF DIVERSION: \_\_\_\_\_ COUNTY: San Juan  
S. 1050 ft. & E. 1575 ft. from NW Cor. Sec. 27, T40S, R23E, SLB&M

Description of Diverting Works: Portable pump and tank truck to place of use  
\* COMMON DESCRIPTION: 10 miles East of Bluff Montezuma Creek Quad

5. POINT(S) OF REDIVERSION  
The water will be rediverted from \_\_\_\_\_ at a point:  
\_\_\_\_\_  
Description of Rediverting Works: \_\_\_\_\_

6. POINT(S) OF RETURN  
The amount of water consumed will be \_\_\_\_\_ cfs or 1.10 ac-ft  
The amount of water returned will be \_\_\_\_\_ cfs or \_\_\_\_\_ ac-ft  
The water will be returned to the natural stream/source at a point(s): \_\_\_\_\_

7. STORAGE  
Reservoir Name: \_\_\_\_\_ Storage Period: from \_\_\_\_\_ to \_\_\_\_\_  
Capacity: \_\_\_\_\_ ac-ft. Inundated Area: \_\_\_\_\_ acres  
Height of dam: \_\_\_\_\_ feet  
Legal description of inundated area by 40 acre tract(s): \_\_\_\_\_

\* These items are to be completed by the Division of Water Rights

**TEMPORARY**  
**Appropriate**

8. List any other water rights which will supplement this application \_\_\_\_\_

9. NATURE AND PERIOD OF USE

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other:	From <u>Aug. 1, 1988</u>	to <u>Aug. 31, 1988</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
 Stockwatering (number and kind): \_\_\_\_\_  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): Fluid for oil and gas exploration drilling

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): \_\_\_\_\_  
Bluff Bench State 11-30  
N. 1980 ft. & W. 1207 ft. from SE Cor. Sec. 30, T39S, R22E, SLB&M (NE $\frac{1}{4}$ SE $\frac{1}{4}$ )  
(1980' FSL & 1207' FEL)

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\*\*\*\*\*

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

*Kevin H. McLeod*  
 Signature of Applicant(s)  
 Agent for Zinn Petroleum Company

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

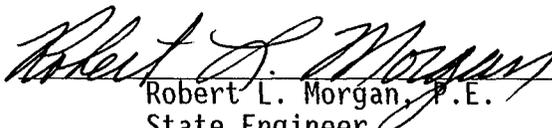
WATER RIGHT NUMBER: 09 - 1585

APPLICATION NO. T63352

1. July 5, 1988            Application received by MP.
  2. July 7, 1988            Application designated for APPROVAL by MP and KLJ.
  3. Comments:
- 
- 

Conditions:

This application is hereby APPROVED, dated July 15, 1988, subject to prior rights and this application will expire on July 15, 1989.

  
Robert L. Morgan, P.E.  
State Engineer

RECEIVED  
JUL 13 1988

DRILLING LOCATION ASSESSMENT  
State of Utah  
Division of Oil, Gas & Mining

DIVISION OF  
OIL, GAS & MINING

OPERATOR: Zinn Petroleum Inc WELL NAME: Bluff Bench State 11-30  
QTR/QTR: \_\_\_\_\_ SECTION: 30 TWP: 39S RANGE: 22E  
COUNTY: San Juan FIELD: 1980 FSL 1207 FEL \_\_\_\_\_  
SFC OWNER: State LEASE #: ML 35880  
SPACING: \_\_\_\_\_ F SECTION LINE \_\_\_\_\_ F QTR/QTR LINE \_\_\_\_\_ F ANOTHER WELL \_\_\_\_\_  
INSPECTOR: Chip Hutchinson DATE & TIME: 10:30 AM 6-29-88  
PARTICIPANTS: Kevin McCord (Zinn) Lowell Larsen (DIRT CONTRACTOR)  
Bill Nelson (Abajo Archaeology)

REGIONAL SETTING/TOPOGRAPHY: ~~at~~ Blanding Basin area about  
7 miles north of Bluff Utah. Area is  
at upper end of flat Bench looking into  
Drainage to Cottonwood wash.

LAND USE

CURRENT SURFACE USE: grazing (although not at this time)

PROPOSED SURFACE DISTURBANCE: 300' x 150' pad w/ 50' x 160' x 10'  
pit extension on east side.

AFFECTED FLOODPLAINS AND/OR WETLANDS: None impacted. Drainage to  
North & west of site.

FLORA/FAUNA: mesquite, sage, DEER, Rabbit, lizards, birds,  
slight native grasses.

ENVIRONMENTAL PARAMETERS

GEOLOGY

SOIL TYPE AND CHARACTERISTICS: Brown sandy soil w/ some  
clays. Commonly called blow sand.

SURFACE FORMATION & CHARACTERISTICS: grayish outcrops of  
Morrison of broken appearance.

EROSION/SEDIMENTATION/STABILITY: Fairly stable area

SUBSURFACE GEOLOGY

OBJECTIVE(S)/DEPTH(S): DESERT CREEK & 150m @ 5850'

ABNORMAL PRESSURES - HIGH AND LOW: Non anticipated

CULTURAL RESOURCES/ARCHAEOLOGY: One site w/ flakes & chips south of site. (to be avoided by access)

WATER RESOURCES: Cotton wood wash to the west. Small inter mittent drainage to north.

RESERVE PIT

CHARACTERISTICS: 50' x 160' x 10' pit on east side of pad.

LINING: NONE anticipated

MUD PROGRAM: FW gel

DRILLING WATER SUPPLY: Private thru Hay Hot Oil

OTHER OBSERVATIONS: See exploration P&A west of site. This site is an alternate. Original is in inaccessible area.

STIPULATIONS FOR APD APPROVAL: Normal steps.

ATTACHMENTS

OPERATOR Zinn Petroleum Co. DATE 7-5-88

WELL NAME Bluff Bench State 11-30

SEC NESE 30 T 39S R 22E COUNTY San Juan

43-037-31442  
API NUMBER

State  
TYPE OF LEASE

CHECK OFF:

Bond ok (Ed Bonner) 7-25-88

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'  
Need water permit (rec. 7-11-88) 09-1585 / T63352  
Exception location requested on APD letter.  
Presite done on 6-29-88 by Chip.  
Bond and designation of operator received 7-25-88

APPROVAL LETTER:

SPACING:  R615-2-3 \_\_\_\_\_ UNIT

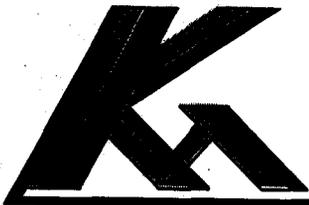
R615-3-2

\_\_\_\_\_ CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

+ water permit  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



KM PRODUCTION COMPANY  
P.O. Box 2406  
Farmington, NM 87401  
(505) 325-6900

RECEIVED  
JUN 27 1988

DIVISION OF  
OIL, GAS & MINING

June 23, 1988

State of Utah  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Attention: Mr. John Baza

RE: Notice of Staking  
Zinn Petroleum Company  
Bluff Bench State 11-30  
1980 FSL & 860 FEL  
Section 30, T39S, R22E  
San Juan County, Utah

Gentlemen:

Please be advised that Zinn Petroleum wishes to drill and test the Desert Creek formation at the above-referenced well location. This well will be located on Utah State Oil, Gas and Hydrocarbon Lease No. 35880. A map showing the topography and the well spot is provided. A surface inspection of this proposed well site has been scheduled for Wednesday, June 29th. An Application for Permit to Drill will be submitted to your office after the completion of the surface inspection.

If you need anything further regarding this matter, please advise.

Yours truly,

  
Kevin H. McCord  
Agent for Zinn Petroleum Co.

KHM/lmc

Enclosure

cc: Mr. C. B. Caire, Zinn Petroleum

# Mobil Exploration and Producing U.S. Inc.

P.O. BOX 5444  
DENVER, COLORADO 80217-5444

Denver Division - Land  
July 25, 1988

## FEDERAL EXPRESS

The Utah Oil and Gas and Mining Division  
355 West North Temple  
3 Tri-ad, Suite 350  
Salt Lake City, UT 84180-1203

STATE OF UTAH ML-35880  
SOUT-1265  
SAN JUAN COUNTY, UTAH  
PEND P-395-88

Gentlemen:

Enclosed please find Designations of Operator for Zinn Petroleum Company filed with you in triplicate original for the above-captioned lease covering the SE/4 of Section 30-T39S-R22W, San Juan County, Utah, dated July 19, 1988.

Very truly yours,



R. H. Lichty  
Land Advisor

RHL/lea:7/10  
Enclosure

cc: Zinn Petroleum Company  
1100 Milam, Suite 2100  
Houston, TX 77002  
Attn: Ms. Jean Scates

**RECEIVED**  
JUL 26 1988

DIVISION OF  
OIL, GAS & MINING

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Department of Natural Resources, Division of State Lands, holder of lease, ML 35880 :

and hereby designates

NAME: Zinn Petroleum Company  
ADDRESS: 1100 Milam, Suite 2100, Houston, TX 77002

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Director of the Division of State Lands or his representative may serve written or oral instructions in securing compliance with the Rules and Regulations Governing the Issuance of Mineral Leases with respect to (describe acreage to which this designation is applicable):

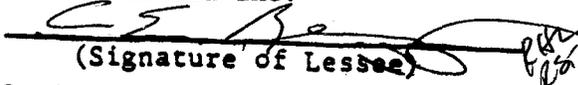
Township 39 South, Range 22 East, SLM  
Section 30: SE/4  
San Juan County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Rules and Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Director, Division of State Lands or his representative.

The lessee agrees promptly to notify the Division of State Lands of any change in the designated operator.

Mobil Exploration and Producing  
North America Inc.

  
(Signature of Lessee)

C. E. Reny Attorney in Fact

P.O. Box 5444, Denver, CO 80217  
(Address)

July 19, 1988  
(Date)



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

July 27, 1988

Zinn Petroleum Company  
1100 Milam, Suite 2100  
Houston, Texas 77002

Gentlemen:

Re: Bluff Bench State 11-30 - NE SE Sec. 30, T. 39S, R. 22E - San Juan County, Utah  
1980' FSL, 1207' FEL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

Prior to any ground-disturbing activity on state lands or lands owned or controlled by the state or its subdivisions, a cultural resource clearance report must be filed with and approved by the Division of State History, phone (801) 533-4563. A list of acceptable archaeological contractors is available from the Division of State History.

In addition, the following actions are necessary to fully comply with this approval:

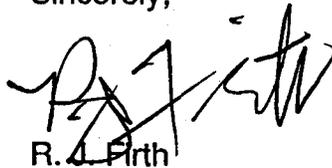
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

Page 2  
Zinn Petroleum Company  
Bluff Bench State 11-30  
July 27, 1988

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31442.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

lr  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API NO. 43-037-31442

NAME OF COMPANY: ZINN PETROLEUM

WELL NAME: BLUFF BENCH STATE 11-30

SECTION 30 NESE 39S TOWNSHIP 22E RANGE SAN JUAN COUNTY

DRILLING CONTRACTOR FOUR CORNERS DRILLING

RIG # 3

SPUDDED: DATE 8/8/88

TIME 4:00 p.m.

How ROTARY

DRILLING WILL COMMENCE 8/10/88 Surface Casing

REPORTED BY Kevin McCord

TELEPHONE # (505) 325-6900

DATE 8/9/88 SIGNED \_\_\_\_\_ TAS \_\_\_\_\_ TAKEN BY: AWS

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
CEMENTING OPERATIONS

COMPANY NAME: Zinn Pet. Co. (4-Corners Drilling Co)

WELL NAME: Bluff Bench State #11-30

QTR/QTR NE SE SECTION 30 TOWNSHIP 39 S RANGE 22 E

CEMENTING COMPANY: DS WELL SIGN Y

INSPECTOR: GG & JB DATE: 8-10-88

CEMENTING OPERATIONS:

PLUGBACK: \_\_\_\_\_ SQUEEZE: \_\_\_\_\_ CASING: \_\_\_\_\_ P-A ZONE: \_\_\_\_\_

SURFACE CASING:  INTERMEDIATE \_\_\_\_\_ PROD CASING: \_\_\_\_\_

PERFORATIONS \_\_\_\_\_ SQUEEZE PRESSURE \_\_\_\_\_

CASING INFORMATION:

SIZE 8 5/8" - 24' GRADE: J-55 HOLE SIZE: 11" DEPTH: 1662

SLURRY INFORMATION:

1. CLASS:  
LEAD: 65-35-B-Poz TAIL: 150 sk Class B w/2% Cell

2. SLURRY WEIGHT:  
LEAD: 12.7 TAIL: 15.6

3. WATER (GAL/SK)  
LEAD: 6.9 TAIL: 5.2

4. COMPRESSIVE STRENGTH  
PSI @ \_\_\_\_\_ HR \_\_\_\_\_

PIPE CENTRALIZED centralizes CEMENTING STAGES 1

LOST RETURNS \_\_\_\_\_ REGAIN RETURNS No Loss BARRELS LOST None

TOP OF CEMENT Surface PERF INTERVAL \_\_\_\_\_

CEMENT TO SURFACE? yes.

ADDITIONAL COMMENTS: Circ. 24 Bls Cmt. (80 sk) Plug Down

6:45 PM. 8-10-88. Cut off Conductor Pipe. Cmt had Fallen.

Used 40 sk Neat cmt w/3% Cell. for Top Job Completed 9:00 PM.

0451T CO Man. Kevin McCord.

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Zinn Petroleum Company OPERATOR CODE N5175

ADDRESS 1100 Milam, Suite 2100 PHONE NO. 713, 655-9521

Houston, TX 77002

**RECEIVED**  
**AUG 15 1988**  
DIVISION OF  
OIL, GAS & MINING

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10909	43-037-31442	Bluff Bench State 11-30	NESE	30	39S	22E	San Juan	8/8/88	8/8/88
COMMENTS: Spud well at 4:00 PM on 8/8/88. Set 13 3/8" conductor casing at 41 ft. RKB. Drilling 11" surface hole.											
COMMENTS: State lease Not in a Unit Field-Wildcat Proposed Zone - Desert Creek (only well in sec. 30, assign new entity 10909 on 8/15/88 for)											
COMMENTS:											
COMMENTS:											
COMMENTS:											

- ACTION CODES:
- A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)
  - B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)
  - C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
  - D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
  - E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

Kevin H. McCord  
SIGNATURE Kevin H. McCord  
Agent for Zinn Petroleum 8/9/88  
TITLE DATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

RECEIVED

AUG 15 1988

<b>SUNDRY NOTICES AND REPORTS</b> <small>(Do not use this form for proposals to drill or to deepen or to recomplete a well. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> ML No. 35880
<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b> _____
<b>2. NAME OF OPERATOR</b> Zinn Petroleum Company		<b>7. UNIT AGREEMENT NAME</b> _____
<b>3. ADDRESS OF OPERATOR</b> 1100 Milam, Suite 2100, Houston, TX 77002		<b>8. FARM OR LEASE NAME</b> Bluff Bench State
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL & 1207' FEL		<b>9. WELL NO.</b> 11-30
<b>10. FIELD AND POOL, OR WILDCAT</b> Wildcat		<b>11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA</b> Sec. 30, T39S, R22E
<b>14. API NUMBER</b> 43-037-31442	<b>15. ELEVATIONS</b> (Show whether OF, RT, CR, etc.) 4696' GL 4708' RKB	<b>12. COUNTY OR PARISH</b>   <b>13. STATE</b> San Juan   UT

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Spud notice</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

SEE ATTACHED DAILY REPORTS.

18. I hereby certify that the foregoing is true and correct

SIGNED Kevin H. McCord TITLE Petroleum Engineer DATE 8/10/88  
Kevin H. McCord Agent for Zinn Petroleum

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

ZINN PETROLEUM COMPANY

BLUFF BENCH STATE 11-30  
Section 30, T39S, R22E  
1980' FSL & 1207' FEL  
San Juan County, Utah

DAILY REPORT

- 8/09/88 Move in and rig up Four Corners Drilling Company Rig #3. Spud well at 4:00 PM on 8/8/88. Drilled 41 ft. of 17 1/2" conductor hole. Ran 1 jt. (40.88 ft.) of 13 3/8" 72#/ft L-80 Buttress conductor casing. Set casing at 41 ft. RKB. Rigged up Dowell. Cemented conductor with 50 sacks of Class B cement with 3% CaCl<sub>2</sub> and 1/4# flocele per sack. Good circulation throughout job. Did not circulate cement to surface. Used 1" tubing for cement top job. Pumped 5 bbls. of cement. Could not get cement to surface. Wait on more cement. Pumped 45 sacks of Class B cement with 3% CaCl<sub>2</sub> and 1/4# flocele per sack down 1" tubing. Had cement returns to surface. Total cement pumped for conductor was 120 sacks. Plug down at 11:45 PM 8/8/88. Wait on cement for 5 hours (10 hrs. WOC on initial job). Drill out from under conductor with 11" bit. Drilling.
- 8/10/88 Drilling ahead at 1500'.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

3. LEASE DESIGNATION AND SERIAL NO.

ML No. 35880

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug wells. Use "APPLICATION FOR PERMIT" for such proposals.)

RECEIVED  
AUG 15 1988

1. OIL WELL  GAS WELL  OTHER

UNIT AGREEMENT NAME

2. NAME OF OPERATOR

Zinn Petroleum Company

5. FARM OR LEASE NAME

Bluff Bench State

3. ADDRESS OF OPERATOR

1100 Milam, Suite 2100, Houston, TX 77002

DIVISION OF  
OIL, GAS & MINING

9. WELL NO.

11-30

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface

1980' FSL & 1207' FEL

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA

Sec. 30, T39S, R22E

14. API NUMBER

43-037-31442

15. ELEVATIONS (Show whether OF, RT, CR, etc.)

4696' GL 4708' RKB

12. COUNTY OR PARISH

San Juan

13. STATE

UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Set surface casing

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

SEE ATTACHED DAILY REPORT OF 8/11/88.

18. I hereby certify that the foregoing is true and correct

SIGNED

Kevin H. McCord

TITLE

Petroleum Engineer  
Agent for Zinn Petroleum

DATE

8/11/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ZINN PETROLEUM COMPANY

BLUFF BENCH STATE 11-30  
 Section 30, T39S, R22E  
 1980' FSL & 1207' FEL  
 San Juan County, Utah

DAILY REPORT

8/09/88 Move in and rig up Four Corners Drilling Company Rig #3. Spud well at 4:00 PM on 8/8/88. Drilled 41 ft. of 17 1/2" conductor hole. Ran 1 jt. (40.88 ft.) of 13 3/8" 72#/ft L-80 Buttress conductor casing. Set casing at 41 ft. RKB. Rigged up Dowell. Cemented conductor with 50 sacks of Class B cement with 3% CaCl<sub>2</sub> and 1/4# flocele per sack. Good circulation throughout job. Did not circulate cement to surface. Used 1" tubing for cement top job. Pumped 5 bbls. of cement. Could not get cement to surface. Wait on more cement. Pumped 45 sacks of Class B cement with 3% CaCl<sub>2</sub> and 1/4# flocele per sack down 1" tubing. Had cement returns to surface. Total cement pumped for conductor was 120 sacks. Plug down at 11:45 PM 8/8/88. Wait on cement for 5 hours (10 hrs. WOC on initial job). Drill out from under conductor with 11" bit. Drilling.

8/10/88 Drilling ahead at 1500'.

8/11/88 Drilled 11" hole to 1663 ft. RKB (bit quit). Expected top of Chinle shale is 1563' (100 ft. into Chinle). Short trip. Trip out of hole. Ran 39 joints of 8 5/8" casing as follows:

<u>Description</u>	<u>Length</u>	<u>Depth</u>
KB to landing point	10.00	0- 10
1 jt. 8 5/8" 24#/ft J-55 STC ERW Maverick casing	12.96	10- 23
37 jts. 8 5/8" 24#/ft J-55 STC ERW Maverick casing	1594.69	23-1618
1 insert float	0.00	1618-1618
1 jt. 8 5/8" 24#/ft J-55 STC ERW Maverick casing	43.15	1618-1661
1 8 5/8" cement filled guide shoe	1.20	1661-1662
	<u>1662.00</u>	

Centralizers at: 1640, 1489, 1231 and 670. Rigged up Dowell. Cemented surface casing with 400 sx of 65-35 pozmix with 6% gel, 2% CaCl<sub>2</sub> and 1/4# flocele/sx (676 ft<sup>3</sup> of slurry, yield 1.69 ft<sup>3</sup>/sx, wt 12.7#/gal, water 6.9 gal/sx) tailed with 150 sx of Class B with 2% CaCl<sub>2</sub> and 1/4# flocele/sx (177 ft<sup>3</sup> of slurry, yield 1.18 ft<sup>3</sup>/sx, wt 15.6#/gal, water 5.2 gal/sx). Good circulation throughout job. Circulated 24 bbls. of cement to surface (80 sx). Bumped plug to 1000 psi--held OK. Plug down at 6:45 PM 8/10/88. Pumped 50 sx Class B cement for top job. Wait on cement.

OR APPROVAL TO PLUG AND ABANDON WELL

Operator Zinn Petroleum Representative R.E. Fiddle  
 Well No. 11-30 Located NE 1/4 SE 1/4 Sec. 30 Twp 39S Range 22E  
 Lease No. 35880 Field UC State OK

Unit Name and Required Depth \_\_\_\_\_ Base of fresh water sands \_\_\_\_\_

T.D. 5839' Size hole and Fill Per Sack 7 7/8" 3.49/sk Mud Weight and Top 9.2 #/gal TD-surface

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>13 3/8</u>	<u>41'</u>	<u>surf</u>	<u>0</u>	<u>5585</u>	<u>5385</u>	<u>93. Caliper log hole w/ 110 cuft</u>
<u>8 5/8</u>	<u>1662</u>	<u>surf</u>	<u>0</u>			
Formation	Mudlogger Top	Log Base	Shows			
<u>Hucker Trail</u>	<u>4486</u>		<u>none</u>	<u>1762</u>	<u>1562</u>	<u>97. Calculation using assumed 12" OH LAST RECORDED SIZE OK CALIPER LOG</u>
<u>Des Moines</u>	<u>5216</u>		<u>none</u>			
<u>U. Ismay</u>	<u>5470</u>	<u>5485</u>	<u>none</u>	<u>50</u>	<u>0</u>	<u>15</u>
<u>L. Ismay</u>	<u>5586</u>	<u>5588</u>	<u>5588-97 5639-43</u>			
<u>Des. Crk</u>	<u>5694</u>	<u>5693</u>	<u>5763-75</u>			
<u>AKAH</u>	<u>5821</u>	<u>5824</u>	<u>none</u>			

P&A Procedure:  
Spot 200' plug across top of Upper Ismay  
Spot 200' plug across 8 5/8" casing shoe  
Spot plug from 50' to surface

Remarks

DST's, lost circulation zones, water zones, etc. DST#1 5607-74: Recvd 8' mud, 22 psig FSI

Water flow @ 4049', 3 gpm, 6500 TDS

Approved by John Baza Date 8/19/88 Time 11:30 A.M.  
P.M.

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Zinn Petroleum  
 Representative Bob Fielder KM Production Co. Telephone No. (505) 325-6900  
 Well Name and No. Bluff Bench State # 11-30  
 Location NE 1/4 SE 1/4, Sec. 30 T. 39S R. 22E County San Juan  
 Lease Type (Federal, Tribal, State or Private) State  
 Has operator obtained proper Federal or Tribal approval? NA  
 T. D. 5839 Open hole from 1662 to 5839

<u>Hole Size</u>	<u>Casing Size</u>	<u>Set at</u>	<u>TOC</u>	<u>Pull Casing?</u>
	<u>8 5/8"</u>	<u>1662</u>	<u>Surf.</u>	<u>N</u>

<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows?</u>
<u>U. Ismay</u>	<u>5470'</u>		
<u>Hovenweep Sh.</u>	<u>5486'</u>		
<u>D. Creek</u>	<u>5694'</u>		<u>Y</u>
<u>Akiah</u>	<u>5827'</u>		

Plugging procedure:

1. 200' plug @ top of U. Ismay 5370' - 5570'
2. 200' plug @ casg. shoe 1562' - 1762'
3. 50' surf. plug.

(If necessary tag plug #1).  
Possibly plug tonight or tomorrow morning.

Bob's  
Bob's

Rig ph. (505) 325-5033 "4 corners rig # 3"  
 Mobile ph. (505) 325-1873 "Unit 2970"  
 Home ph. (505) 632-3869  
 Remarks: (DST's, LCZ's, Water flows, etc.)

Gas shows: 5588'-97', 5639'-43, 5763'-75'  
 DST @ 5607'-74', 8 ft. of mud., FSIP = 22 psi  
1" water flow @ 4049'

Approved by S. Baza Date 8-19-88 Time 1:30 pm

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

3. LEASE DESIGNATION AND SERIAL NO.  
ML No. 35880

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Bluff Bench State

9. WELL NO.  
11-30

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., NE, OR BLK. AND SURVEY OR T12A  
Sec. 30<sup>3</sup>, T39S, R22E

12. COUNTY OR PARISH  
San Juan

13. STATE  
UT

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug wells in a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED  
AUG 25 1988

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Zinn Petroleum Company

3. ADDRESS OF OPERATOR  
1100 Milam, Suite 2100, Houston, TX 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface 1980' FSL & 1207' FEL

14. API NUMBER  
43-037-31442

15. ELEVATIONS (Show whether of, ft., or, etc.)  
4696' GL 4708' RKB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Propose to Plug and Abandon this well as follows:

- Plug #1: 93 sacks (110 ft<sup>3</sup>) Class B from 5585' to 5385'
- Plug #2: 97 sacks (114 ft<sup>3</sup>) Class B from 1762' to 1562'
- Plug #3: 15 sacks (18 ft<sup>3</sup>) Class B from 50' to surface

COPY

18. I hereby certify that the foregoing is true and correct

SIGNED R. E. Fielder TITLE Petroleum Engineer DATE 8/22/88  
R. E. Fielder Agent for Zinn Petroleum

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

\*See Instructions on Reverse Side

DATE: 8-22-88  
BY: John R. Buss

43-037-31442  
ZINN PETROLEUM Co.

K M PRODUCTION COMPANY

RECEIVED  
AUG 29 1988

BLUFF BENCH STATE 11-30  
Section 30, T39S, R22E  
1980' FSL & 1207' FEL  
San Juan County, Utah

DIVISION OF  
OIL, GAS & MINING

SLOPE TESTS

Depth

Hole Deviation

141'  
322'  
533'  
837'  
992'  
1118'  
1213'  
1267'  
1330'  
1423'  
1485'  
1558'  
1662'  
1973'  
2453'  
2970'  
3480'  
3978'  
4478'  
4706'  
5219'  
5540'  
5674'  
5839'

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1/2°

MICROFILM  
FILE

State of New Mexico )  
County of San Juan )

ss

I, Kevin H. McCord, being first duly sworn, depose and state that the above and foregoing depth and hole deviation figures are true and correct to the best of my information and belief.

Kevin H. McCord

Subscribed and sworn before me this 25th day of August, 1988.

Edison Hare  
Notary Public

My Commission Expires 9-20-88

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.  
ML No. 35880

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Bluff Bench State

9. WELL NO.  
11-30

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC. T., R., M., OR BLM. AND SURVEY OR AREA  
Sec. 30, T39S, R22E

12. COUNTY OR PARISH 13. STATE  
San Juan UT

SUNDRY NOTICES AND REPORTS

(Do not use this form for proposals to drill or to deepen or plug wells in existing reservoirs. Use "APPLICATION FOR PERMIT—" for such proposals.)

RECEIVED  
AUG 29 1988

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Zinn Petroleum Company

3. ADDRESS OF OPERATOR  
1100 Milam, Suite 2100, Houston, TX 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1980' FSL & 1207' FEL

14. API NUMBER  
43-037-31442

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4696' GL 4708' RKB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Plugged and Abandoned this well as follows:

- 8/20/88: Plug #1: 93 sacks (110 ft<sup>3</sup>) Class B from 5585' to 5385'
- Plug #2: 97 sacks (114 ft<sup>3</sup>) Class B from 1749' to 1549'
- Plug #3: 20 sacks (24 ft<sup>3</sup>) Class B from 62' to surface

8/22/88: Cut off 8 5/8" Bradenhead. Install dryhole marker. Remove drilling equipment. Fence 4th side of reserve pit. Will rehab when reserve pit dries sufficiently.

18. I hereby certify that the foregoing is true and correct

SIGNED Kevin H. McCord TITLE Petroleum Engineer Agent for Zinn Petroleum DATE 8/25/88

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED  
AUG 29 1988

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
3 TRIAD CENTER, SUITE 350  
SALT LAKE CITY, UT 84180-1203

DIVISION OF  
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

43-037-31442

Well Name & Number Bluff Bench State 11-30

Operator Zinn Petroleum Company Address 1100 Milam, Suite 2100, Houston, TX 77002

Contractor Four Corners Drilling Co. #3 Address P.O. Box 1067, Farmington, NM 87499

Location NE 1/4 SE 1/4 Sec. 30 T. 39S R. 22E County San Juan

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	1662'	4049'	3 gpm	salty - 6500 ppm
2.	NOTE: This small water flow was first detected at 4049 ft. The actual			
3.	start of the flow is unknown.			
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE\*  
(See other instructions  
on reverse side)

56 64 01

9

5. LEASE DESIGNATION AND SERIAL NO.

ML No. 35880

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bluff Bench State

9. WELL NO.

11-30

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 30, T39S, R22E

12. COUNTY OR PARISH

San Juan

13. STATE

UT

19. ELEV. CASINGHEAD

4696' GL 4708' RKB

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Zinn Petroleum Company

3. ADDRESS OF OPERATOR  
1100 Milam, Suite 2100, Houston, TX 77002

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1980' FSL & 1207' FEL

At top prod. interval reported below same

At total depth same

14. PERMIT NO. API No. DATE ISSUED  
43-037-31442 7/27/88

15. DATE SPUDDED 8/8/88  
16. DATE T.D. REACHED 8/19/88  
17. DATE COMPL. (Ready to prod.) 8/20/88

20. TOTAL DEPTH, MD & TVD 5839' RKB  
21. PLUG. BACK T.D., MD & TVD N/A  
22. IF MULTIPLE COMPL., HOW MANY\*  
23. INTERVALS DRILLED BY Surface-TD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Well was plugged and abandoned.

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Dual Induction Guard Log; Spectral Density Dual Space Neutron Log

27. WAS WELL CORDED  
No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	72#/ft	41' RKB	17 1/2"	120 sx (142 ft <sup>3</sup> ) Class B	none
8 5/8"	24#/ft	1662' RKB	11"	400 sx (676 ft <sup>3</sup> ) 65-35 pozmix tailed by 150 sx (177 ft <sup>3</sup> ) Class B	none

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none					none		

31. PERFORATION RECORD (Interval, size and number)  
Cement plugs as follows:  
Plug #1: 93 sx (110 ft<sup>3</sup>) Class B 5585-5385'  
Plug #2: 97 sx (114 ft<sup>3</sup>) Class B 1749-1549'  
Plug #3: 20 sx (24 ft<sup>3</sup>) Class B 62'-surface

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
none	

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
none		plugged and abandoned				P & A	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Kevin H. McCord TITLE Petroleum Engineer Agent for Zinn Petroleum Co. DATE 8/25/88

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and geophysical surveys, should be attached hereto to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments, items 21 and 24. If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement"** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

**37. SUMMARY OF POROUS ZONES:**  
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Navajo S.S.	747	1207	Estimated (behind casing-not logged)
Kayenta	1207	1327	"
Wingate S.S.	1327	1563	"
Chinle	1563	2474	"
Moenkopi	2474	2675	Actual log top
De Chelly S.S.	2675	2781	"
Cutler Arkose	2781	4486	"
Honaker Trail	4486	5214	"
Desmoines	5214	5473	"
Paradox Shale	5473	5485	"
Upper Ismay	5485	5580	"
Hovenweep Shale	5580	5588	"
Lower Ismay	5588	5644	"
Gothic Shale	5644	5693	"
Desert Creek	5693	5792	"
Chimney Rock Shale	5792	5824	"
Akah	5824	5839	"

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
	3-ASJ
2-	MICROFILM ✓
4-	FILE

**38. GEOLOGIC MARKERS**

NAME	MEAS. DEPTH	TOP
Same as listed in Item 37.		TRUE VERT. DEPTH