

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

(Other instructions on reverse side)

**CONFIDENTIAL**

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  TITE HOLE  Single Zone  Multiple Zone

2. Name of Operator: Yates Petroleum Corporation (505) 748-1471

3. Address of Operator: 105 South Fourth Street - Artesia, NM 88210

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface: 1320' FNL & 510' FEL  
At proposed prod. zone: UNORTHODOX LOCATION

5. Lease Designation and Serial No.: ML-29538

6. If Indian, Allottee or Tribe Name: \_\_\_\_\_

7. Unit Agreement Name: \_\_\_\_\_

8. Farm or Lease Name: Great White State

9. Well No.: 1-1

10. Field and Pool, or Wildcat: ~~UNDESIGNATED Wildcat~~

11. Sec., T., R., M., or Blk. and Survey or Area: Section 2-T38S-R25E

12. County or Parrish: San Juan Co. Utah

13. State: Utah

14. Distance in miles and direction from nearest town or post office\*: Approximately 10 miles north of Hatch Trading Post

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 510'

16. No. of acres in lease: 639.6

17. No. of acres assigned to this well: 80.00

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.: Approx. 1-1/2 miles

19. Proposed depth: 5750'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 5368' GR

22. Approx. date work will start\*: As soon as approved

*E 1/2 NE 1/4*

23. 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"	48# H-40	Approx. 100'	50 sacks
12-1/4"	8-5/8"	24# J-55	Approx. 1600'	950 sacks - circulate
7-7/8"	5-1/2"	15.5# J-55	TD	300 sacks

Yates Petroleum Corporation proposes to drill and test the Akah and intermediate formations. Approximately 1600' of surface casing will be set and cement circulated to shut off gravel and cavings. If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: FW to 5500'; fresh water gel to TD. MW 9.0-10.4, Vis 35-45, FL 10-15

BOP PROGRAM: BOP's will be nipped up when surface casing is set.

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

DATE: 12-18-87

BY: *[Signature]*

WELL SPACING: R645-3-3

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: *[Signature]* Title: Regulatory Agent Date: Sept. 22, 1987

(This space for Federal or State office use)

Permit No. 43 037-31373 Approval Date

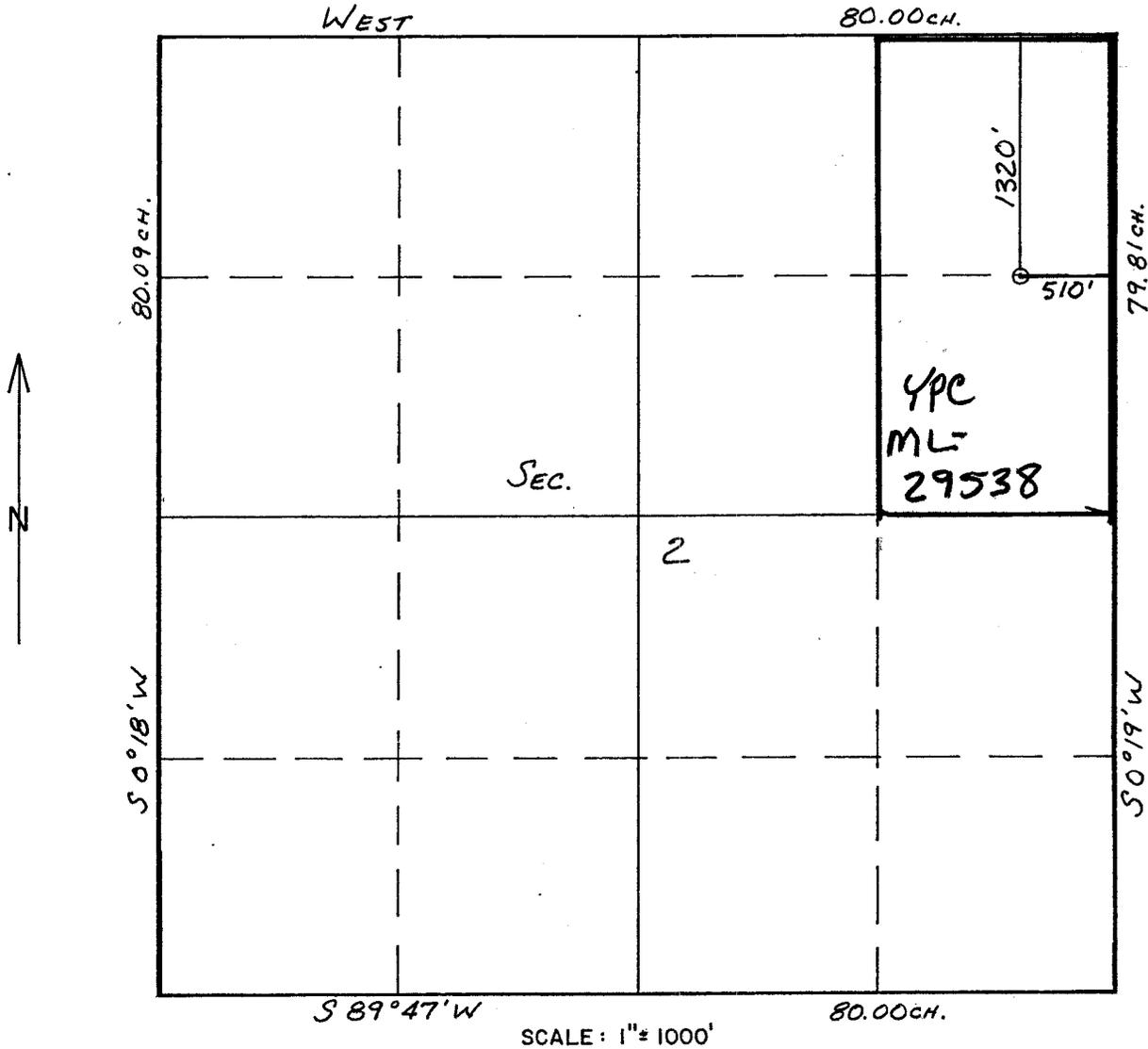
Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Conditions of approval, if any:

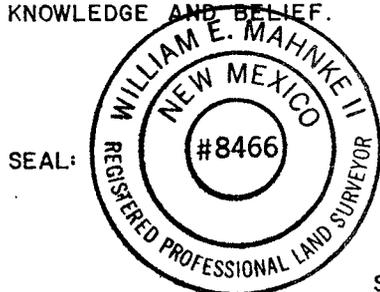
RECEIVED  
SEP 25 1987

DIVISION OF OIL GAS & MINING

COMPANY YATES PETROLEUM CORPORATION  
 LEASE GREAT WHITE STATE WELL NO. 1-1  
 SEC. 2, T. 38 S., R. 25 E  
 COUNTY San Juan STATE Utah  
 LOCATION 1320'FNL & 510'FEL  
 ELEVATION 5368



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 SEPT. 18, 1987



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

S. P. YATES  
PRESIDENT  
JOHN A. YATES  
VICE PRESIDENT  
B. W. HARPER  
SEC. - TREAS.

September 21, 1987

State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

ATTENTION: Ms. Arlene Sollis

RE: Exception to the location for the  
proposed Yates Petroleum  
Corporation's:  
Great White State #1-1  
1320' FNL and 510' FEL of  
Section 2-T38S-R25E  
San Juan County, Utah

Dear Ms. Sollis:

Yates Petroleum Corporation hereby requests an exception to Rule 302 of the Oil and Gas Conservation's general rules and regulations orders. Yates Petroleum Corporation hereby is requesting that the unorthodox location for the Great White State #1-1 be favorably approved by the State of Utah, Division of Oil, Gas and Mining.

The reason for moving this location unorthodox was due to geological and topographical reasons. With our interpretation of all materials and information it was determined that this location was best for wildcat drilling activities.

We control the surrounding acreage within a 460 foot radius. A copy of a topographical map is enclosed showing the outline of the lease.

If you have any questions regarding this matter, please contact Yates' geologist, Mr. Steve Speer at 505-748-1471.

Thank you for your cooperation in this matter.

Sincerely yours,

A handwritten signature in black ink that reads 'Cy Cowan'.

Cy Cowan  
Regulatory Agent

CC:rj

Enclosures



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

S. P. YATES  
PRESIDENT  
JOHN A. YATES  
VICE PRESIDENT  
B. W. HARPER  
SEC. - TREAS.

September 4, 1987

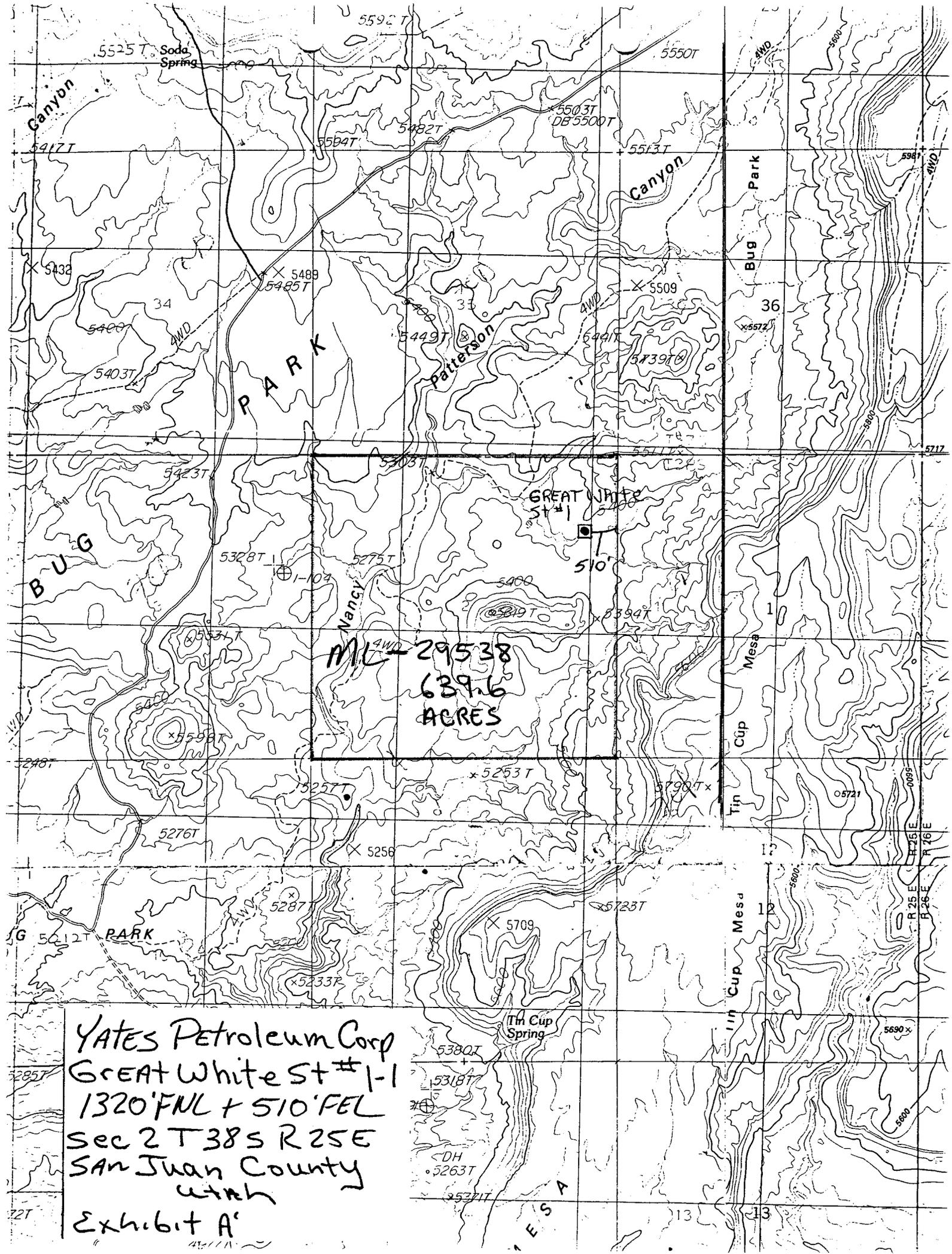
TO: Cy Cowan  
FROM: Steve Speer  
RE: Great White #1 Location

The Great White #1 wildcat location was picked at 1320' FNL & 510' FEL Sec. 2, 38S-25E due to the necessity of testing the Upper Ismay geologic anomaly at what I feel is the optimum stratigraphic and structural location. Because Upper Ismay mounds are extremely linear, narrow, and sharp-sided, it is very easy to nick or miss them entirely due to compromising the surface location (even by hundreds of feet) due to non-geologic reasons. Since wildcat locations are meant to either prove or disprove a geologic theory, it is imperative that the theory is tested where it best stands the chance of success.

Sincerely,

A handwritten signature in cursive script that reads 'Steve Speer'.

Steve Speer



ML-29538  
639.6  
ACRES

YATES Petroleum Corp  
GREAT WHITE ST #1-1  
1320' FNL + 510' FEL  
Sec 2 T38S R25E  
SAN JUAN COUNTY  
Utah  
EXHIBIT A'

Tin Cup Spring  
5380T  
5318T  
DH  
5263T  
5271T

R 25E  
R 26E  
R 26E

13 13

YATES PETROLEUM CORPORATION  
 Great White State #1-1  
 1320' FNL and 510' FEL of  
 Section 2-T38S-R25E  
 San Juan County, Utah

In conjunction with Form DOGM-1, Application for Permit to Drill subject well, Yates Petroleum Corporation submits the following ten items of pertinent information with Utah State Requirements.

1. The geologic surface formation is the Dakota formation.

2. The estimated tops of geologic markers are as follows:

Morrison	Surface	Paradox	5245'
Entrada	565'	Upper Ismay	5400'
Navajo	755'	Lower Ismay	5560'
<i>8 5/8"</i> Chinle	1470'	Desert Creek	5640'
Shinarump	2275'	Lower Desert Creek	5695'
Cutler	2455'	Akah	5750'
Honaker Trail	4213'	TD	5780'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered are:

Water: Entrada 565'; Navajo 755'

Oil or Gas: Upper Ismay 5400'; Desert Creek 5695'

4. Proposed Cementing Program:

Surface Casing:

There will be one stage of cement. Cemented with 800 sacks of Class "C" 2% CaCl<sub>2</sub> (600 cubic feet of cement) circulated. Casing shoe will be set at 1600' with float equipment set at approximately 1560'.

Intermediate Casing:

There will be one stage or as warranted of cement. Cemented with enough Class "C" to equal 354 cubic feet or approximately 300 sacks to reach estimated top at 5000'. Float collar will be set at approximately 40' above TD with casing shoe set at TD.

5. Pressure Control Equipment: See Form DOGM-1.

6. Mud Program:

<u>DEPTH</u>	<u>TYPE</u>	<u>WEIGHT #/GAL.</u>	<u>VISC. sec.qt</u>	<u>FLUID LOSS</u>
0-5500'	FW	-----	-----	-----
5500-TD	FW Gel/Starch	9.0-10.4	35-45	10-15

7. Auxiliary Equipment: Kelly cock, pit level indicators and flow sensor equipment; sub with full-opening valve on floor, drill pipe connectors.

8. Testing, Logging & Coring Program:

Samples: 10' samples out from under surface casing to TD

DST's: Three potential producing zones

Coring: None

Logging: CNL/LDT, DLL, BHC Sonic from TD to casing; possible dipmeter  
TD to casing; Gamma Ray to surface

9. Expect over pressured Desert Creek formation. Will increase mud weight to control.

10. Anticipated starting date: As soon as possible after approval.

Great White State #1-1  
Page 3:

Surface Owners:

State of Utah

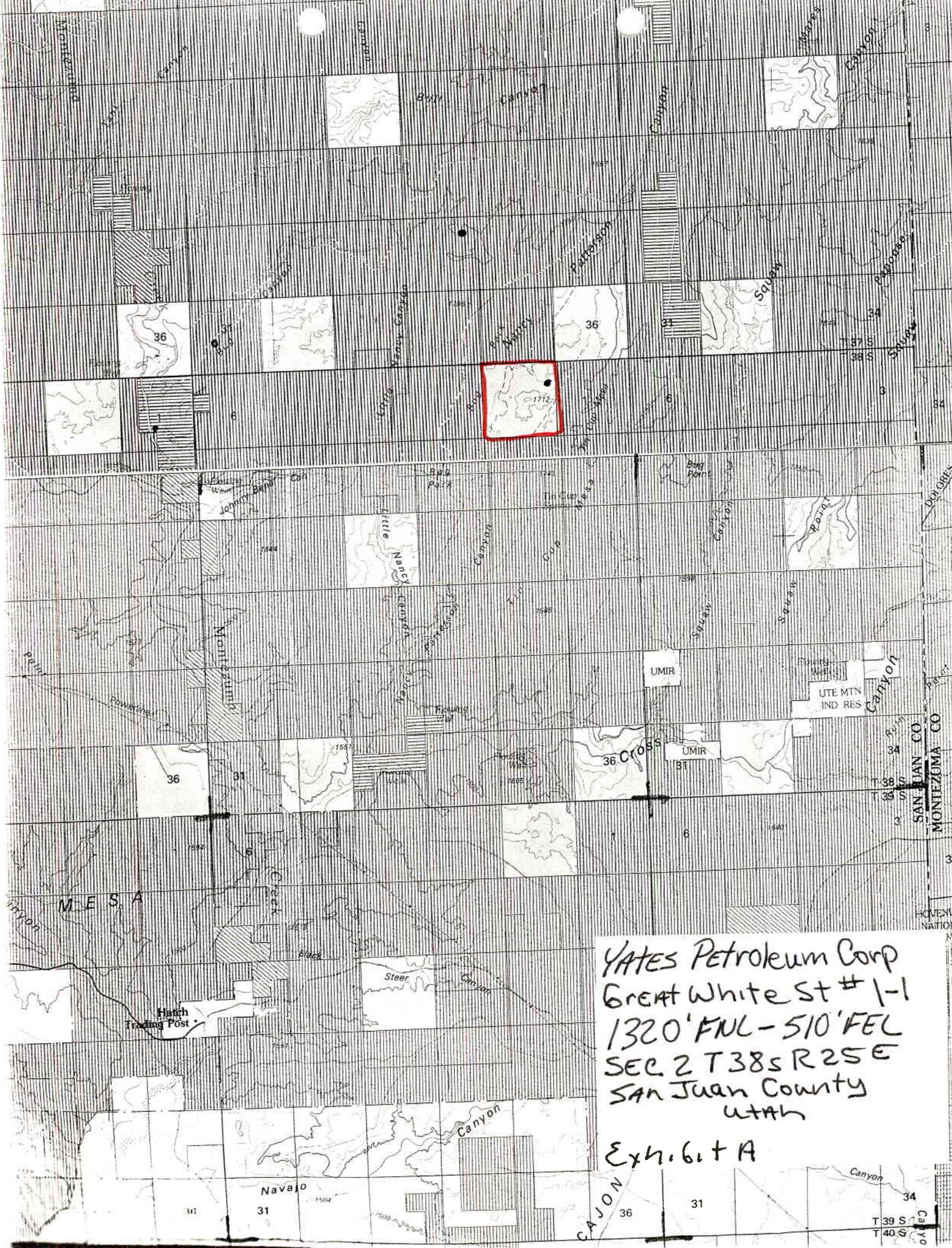
Grazees:

Flying R Ranch  
Mr. Marvin Redburn  
25292 Highway 145  
Dolores, CO 81323

A permit to appropriate water has been submitted to the Utah State Division of Water Rights. The permit number will be forwarded as soon as the permit is issued.

A bond is on file with the State of Utah.

Yates Petroleum Corporation hereby requests approval for non-standard location under Rule 302-1. Enclosed please find material concerning this matter.



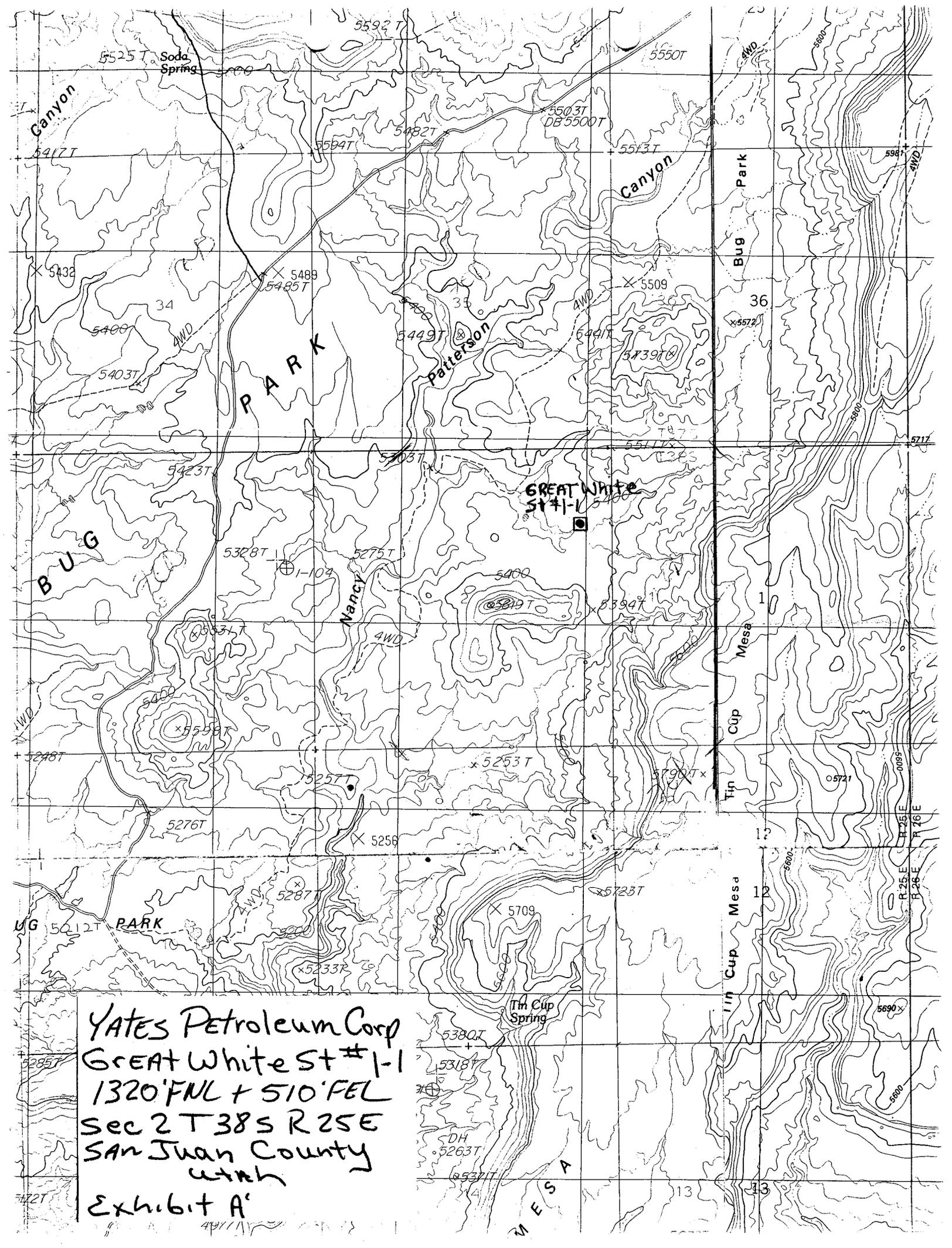
YATES Petroleum Corp  
Great White St # 1-1  
1320' FNL - 510' FEL  
SEC 2 T38s R25E  
SAN Juan County  
UTAH

Exhibit A

SAN JUAN CO  
MONTEZUMA CO

HOVENWE  
NATION  
ME  
G

T 39 S  
T 40 S



YATES Petroleum Corp  
Great White St #1-1  
1320'FNL + 510'FEL  
Sec 2 T38S R 25E  
San Juan County  
Utah  
Exhibit A'

Tin Cup Spring  
5380T  
5318T  
DH  
5263T  
5537T  
MESA

R 25 E  
R 26 E  
R 25 E  
R 26 E

36  
1  
13  
13

GREAT White  
ST #1-1

PARK

patterson

CANYON

Bug Park

Mesa

Tin Cup

Mesa

MESA

Soda Spring

CANYON

BUG

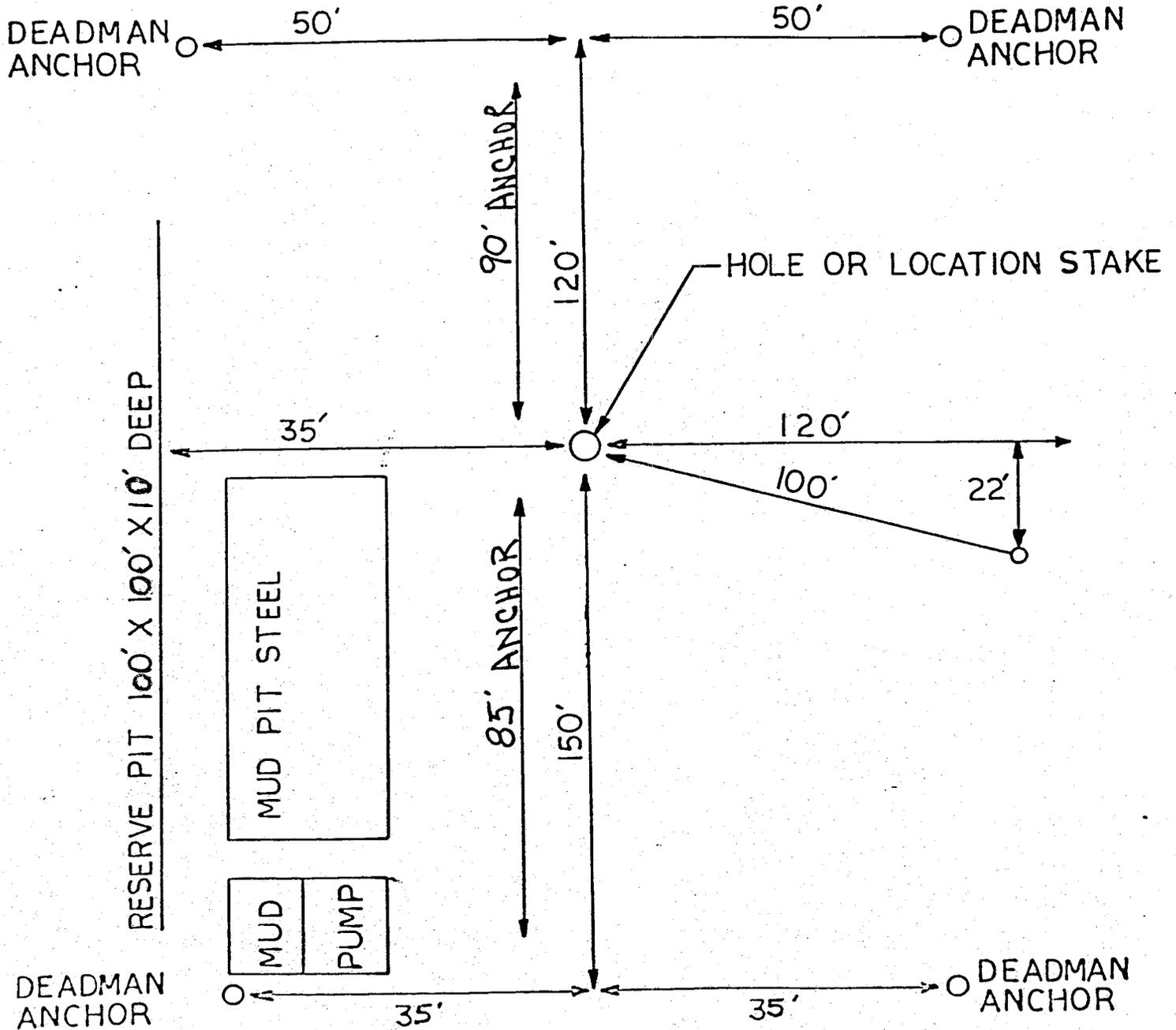
PARK



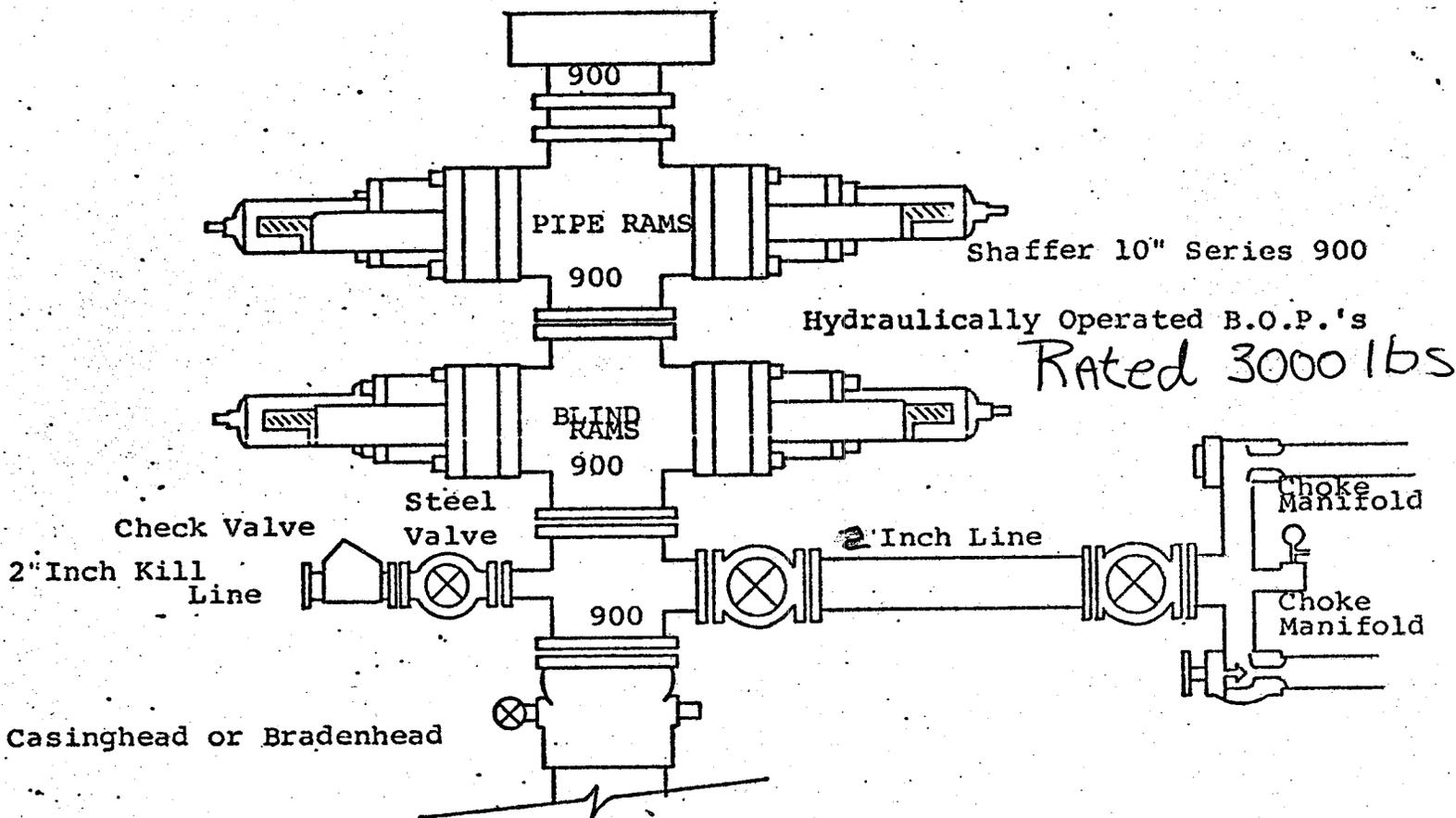
# Exhibit C

## COLEMAN DRILLING CO.

FRONT OF RIG NO. 3

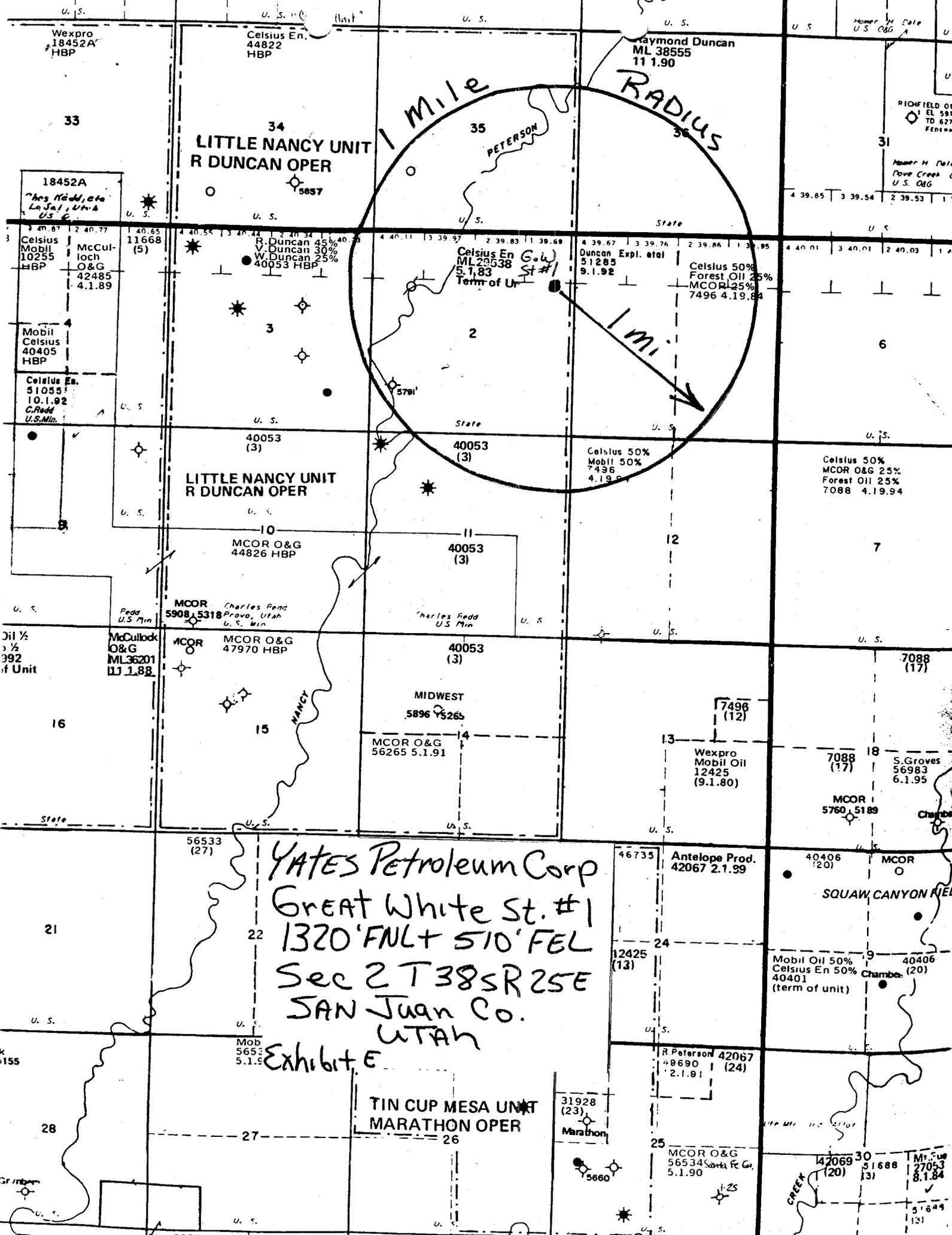


# Exhibit D



## THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
2. Choke outlet to be a minimum of 2" diameter.
3. Kill line to be of all steel construction of 2" minimum diameter.
4. All connections from operating manifolds to preventers to be all steel, hole or tube a minimum of one inch in diameter.
5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
7. Inside blowout preventer to be available on rig floor.
8. Operating controls located a safe distance from the rig floor.
9. Hole must be kept filled on trips below intermediate casing. Operator not responsible for blowouts resulting from not keeping hole full.
10. D. P. float must be installed and used below zone of first gas intrusion.



34  
LITTLE NANCY UNIT  
R DUNCAN OPER

LITTLE NANCY UNIT  
R DUNCAN OPER

YATES Petroleum Corp  
Great White St. #1  
1320' FNL + 510' FEL  
Sec 2 T38S R25E  
SAN JUAN Co.  
UTAH  
Exhibit E

TIN CUP MESA UNIT  
MARATHON OPER

Raymond Duncan  
ML 38555  
11.1.90

Celsius En  
ML 29538  
5.1.83  
Term of Unit

Celsius 50%  
Forest Oil 25%  
MCOR 25%  
7496 4.19.84

Celsius 50%  
Mobil 50%  
7496 4.19.84

Celsius 50%  
MCOR O&G 25%  
Forest Oil 25%  
7088 4.19.94

MCOR Charles Feed  
5908 5.31.8  
Provo, Utah  
U.S. Min

Charles Feed  
U.S. Min

MCOR  
5908 5.31.8

MCOR O&G  
47970 HBP

40053  
(3)

MIDWEST  
5896 5.26.8

MCOR O&G  
56265 5.1.91

7496  
(12)

Wexpro  
Mobil Oil  
12425  
(9.1.80)

7088  
(17)

S. Groves  
56983  
6.1.95

MCOR  
5760 5.18.9

56533  
(27)

46735  
Antelope Prod.  
42067 2.1.99

40406  
(20)

SQUAW CANYON FIEL

12425  
(13)

Mobil Oil 50%  
Celsius En 50%  
40401  
(term of unit)

40406  
(20)

Mod  
56533  
5.1.8

R Peterson  
42067  
49690  
2.1.91

31928  
(23)  
Marathon

MCOR O&G  
56534  
5.1.90

42069  
(20)

Mr. ...  
27053  
8.1.84

51688  
(3)

51689  
(3)

CONFIDENTIAL

122840

OPERATOR Yates Petroleum Corp DATE 9-28-87

WELL NAME Great White State 1-1

SEC E 1/2 NE 1/4 2 T 38S R 25E COUNTY San Juan

43-037-31373  
API NUMBER

State  
TYPE OF LEASE

CHECK OFF:

PLAT

<sup>Bond</sup>  
 BOND  
<sub># A-L-71397-66</sub>  
<sub>Statewide</sub>

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well in Sec 2.  
Need water permit #09-1538 (T62926)  
R of L - Celsius Energy - (Lic. 12/18/87)  
State History  
Exception requested

APPROVAL LETTER:

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

\_\_\_\_\_ CAUSE NO. & DATE \_\_\_\_\_  R615-3-3

STIPULATIONS:

~~1- State History~~  
1- State History  
2- If the reserve pit is excavated by blasting, the operator shall contact DOGM Moeb inspector, Chip Hatchison, ~~tel~~ work ph. 259-8151, home ph. 259-5184, for pit liner determination.  
3- The operator shall divert natural drainages and install culverts as necessary to prevent any influent to or effluent from the location.

0218T

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

OPERATOR: YATES PETROLEUM INC. WELL NAME: GREAT WHITE STATE 1-1  
QTR/QTR: SENE SECTION: 2 TWP: 38S RANGE: 25E  
COUNTY: SAN JUAN FIELD: WILDCAT 1320' F N L 510' F E L  
SFC OWNER: STATE LANDS LEASE #: ML-29538  
SPACING: F SECTION LINE F QTR/QTR LINE F ANOTHER WELL  
INSPECTOR: CHIP HUTCHENSEN DATE & TIME: 10-08-87 11:00 AM  
PARTICIPANTS: WILLIAM MOORE, DOGM; CY COWAN, YATES PETROLEUM; BILL MAHNKE, POWERS SURVEY, BARRY TIBBETTS, ARCHEOLOGIST; HOWARD HUGHES, DIRT CONTRACTOR.

REGIONAL SETTING/TOPOGRAPHY: BLANDING BASIN OF THE COLORADO PLATEAU, MESA TOP.  
10 MILES NORTH OF HATCH TRADING POST.

LAND USE

CURRENT SURFACE USE: OPEN RANGE GRAZING

PROPOSED SURFACE DISTURBANCE: PAD 300'X150' WITH 100'X100' RESERVE PIT AND 30'X40' BURN PIT.

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE.

FLORA/FAUNA: SAGE, RABBITBRUSH, NATIVE GRASSES, RABBIT, BIRDS, DEER, JUNIPER, CHEAT GRASS, LIZARDS.

ENVIRONMENTAL PARAMETERS

GEOLOGY

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SILTYSAND WITH PEBBLES.

SURFACE FORMATION & CHARACTERISTICS: MORRISON FM. LIGHT BROWN SILTYSANDS INTERBEDDED WITH SANDYCLAYEYSILTS.

EROSION/SEDIMENTATION/STABILITY: FAIRLY STABLE CANYON BOTTOM.

SUBSURFACE GEOLOGY

OBJECTIVE(S)/DEPTH(S): UPPER ISMAY @ 5400'; LOWER DESERT CREEK @ 5750'.

ABNORMAL PRESSURES - HIGH AND LOW: DESERT CREEK OVERPRESSURED AND POSSIBLE AKAH OVERPRESSURED SALTWATER.

CULTURAL RESOURCES/ARCHAEOLOGY: SITE ON SW EDGE OF SITE FLAGGED AND TO BE LEFT UNDISTURBED

WATER RESOURCES: DRAINAGE EAST AND SOUTH EDGE OF PAD DRY AND INTERMITTENT. NO EVIDENCE OF GROUND WATER SEEN NEAR SURFACE. NO WATER WELLS KNOWN WITHIN AREA.

RESERVE PIT

CHARACTERISTICS: 100'X100'X10' ON EAST SIDE OF PAD.

LINING: NONE ANTICIPATED UNLESS EXCAVATION INVOLVES BLASTING.

MUD PROGRAM: FRESH WATER TO 5500; FRESH WATER AND GEL TO TD

DRILLING WATER SUPPLY: UNDESIGNATED (POSSIBLY PERKINS RANCH)

OTHER OBSERVATIONS: NUMERIOUS SEISMIC LINES RECENTLY REHABED IN AREA GOING THROUGH SITE.

ARCHAEOLOGY AND STATE RIGHT OF WAY REQUIRED - RDCC.

STIPULATIONS FOR APD APPROVAL: IF PIT IS EXCAVATED WITH BLASTING THEN A FOLLOW UP INSPECTION WILL BE REQUIRED BEFORE FILLING PIT. DIVERSION OF DRAINAGES AROUND EDGE OF SITE AND PITS.

ATTACHMENTS

TEMPORARY

APPLICATION TO APPROPRIATE WATER

Application No. T 62926

REC # 23163 \$ 30.00

STATE OF UTAH WATER RIGHTS

09-1538

RECEIVED

NOTE: -The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

OCT 19 1987

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made... WATER RIGHTS PRICE

1. Irrigation [ ] Domestic [ ] Stockwatering [ ] Municipal [ ] Power [ ] Mining [ ] Other Uses [X]

2. The name of the applicant is Yates Petroleum Corporation

3. The Post Office address of the applicant is 105 South Fourth Street - Artesia, NM 88210

4. The quantity of water to be appropriated second-feet and/or 5.0 acre-feet

5. The water is to be used for oilwell drilling from 11-1-87 to 11-1-88

other use period from to

and stored each year (if stored) from to

6. The drainage area to which the direct source of supply belongs is (Leave Blank)

7. The direct source of supply is\* Underground water well pond on property of Richard Perkins, NW4SW4 of Section 7-T38S-R25E. Water flowing from Artesian (Name of stream or other source) wells.

which is tributary to, tributary to

\*Note. -Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank.

8. The point of diversion from the source is in San Juan County, situated at a point\* NW4SW4 of Section 7-T38S-R25E.

A pond located on the property of Richard Perkins. See Reverse Side. (N.1946 ft. & E.1152 ft. from SW Cor. Sec. 7, T38S, R25E, SLB&M) (7 1/2 miles North of Hatch Trading Post) Cajon Mesa Quad

\*Note. -The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object.

9. The diverting and carrying works will consist of trucks hauling water from the pond to the drilling site. Artesian well has 8 inch diameter casing 506' deep.

10. If water is to be stored, give capacity of reservoir in acre-feet Existing Regulating Reservoir height of dam 4 feet area inundated in acres 0.25 legal subdivision of area inundated NS4SW4 of Section 7-T38S-R25E SLB+M

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows: Total Acres

12. Is the land owned by the applicant? Yes No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes No X If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity.

15. If application is for mining, the water will be used in Mining District at the mine, where the following ores are mined

16. If application is for stockwatering purposes, number and kind of stock watered

17. If application is for domestic purposes, number of persons, or families

18. If application is for municipal purposes, name of municipality

19. If application is for other uses, include general description of proposed uses oilwell drilling.

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. E2NE4 of Section 2-T38S-R25E. Great White State #1-1, 1320' FNL & 510' FEL of Section 2-T38S-R25E, San Juan County, Utah S. 1320 ft. & W. 510 ft. from NE Cor. Sec. 2, T38S, R25E, SLB&M (NE1NE1)

21. The use of water as set forth in this application will consume 5.0 second feet and/or acre-feet of water and 0 second feet and/or acre feet will be returned to the natural stream or source at a point described as follows:

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OK B ver

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

12. Minerals owned by Federal Government. Surface owned by Richard Perkins.

Lined area for additional facts.

RECEIVED NOV 02 1987

DEPARTMENT OF OIL, GAS & MINING

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Clifton R. May

Signature of Applicant\*

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }
County of..... } ss

On the ..... day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL) [mirrored text]

Notary Public

STATE ENGINEER'S ENDORSEMENT

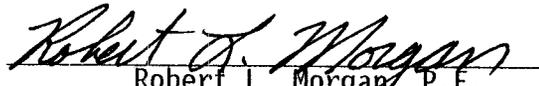
WATER RIGHT NUMBER: 09 - 1538

APPLICATION NO. T62926

1. October 19, 1987      Application received by MP.
  2. October 20, 1987      Application designated for APPROVAL by MP and KLJ.
  3. Comments:
- 
- 

Conditions:

This application is hereby APPROVED, dated October 30, 1987, subject to prior rights and this application will expire on October 30, 1988.

  
Robert L. Morgan, P.E.  
State Engineer

**RECEIVED**  
NOV 02 1987

DIVISION OF  
OIL, GAS & MINING

**RECEIVED**  
DEC 18 1987

(Submit in triplicate to appropriate  
Regional Oil and Gas or Mining Supervisor)

DIVISION OF  
OIL, GAS & MINING

### DESIGNATION OF OPERATOR

The undersigned is, on the records of the Utah Division of State Lands and Forestry, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah  
SERIAL NO.: ML-29538

and hereby designates

NAME: Yates Petroleum Corporation  
ADDRESS: 105 South Fourth Street  
Artesia, New Mexico 88210

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 supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 38 South, Range 25 East  
Section 2: NE/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 Operating 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 Commissioner of Public Lands or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ATTEST:

  
\_\_\_\_\_  
Assistant Secretary  
November 19, 1987  
\_\_\_\_\_  
(Date)

CELSIUS ENERGY COMPANY  
By   
\_\_\_\_\_  
Vice President, (Signature of lessee)  
Exploration  
P. O. Box 11070  
Salt Lake City, Utah 84147  
\_\_\_\_\_  
(Address)



December 18, 1987

N7400

Yates Petroleum Corporation  
105 South Fourth Street  
Artesia, New Mexico 88210

Gentlemen:

Re: Great White State 1-1 - E 1/2 NE 1/4 Sec. 2, T. 38S, R. 25E  
1320' FNL, 510' FEL - San Juan County, Utah

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:

1. 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.
2. If the reserve pit is excavated by blasting, the operator shall contact the Division of Oil, Gas and Mining Moab inspector, Chip Hutchinson, work phone 259-8151, home phone 259-5184, for pit liner determination.
3. The operator shall divert natural drainages and install culverts as necessary to prevent and any influent to or effluent from the location.

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

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.

Page 2  
Yates Petroleum Corporation  
Great White State 1-1  
December 18, 1987

4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
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 toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
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 43-037-31373.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: State Lands & Forestry  
Branch of Fluid Minerals  
D. R. Nielson  
8159T

**CONFIDENTIAL**  
**010604**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-037-31373

NAME OF COMPANY: YATES PETROLEUM COMPANY

WELL NAME: GREAT WHITE STATE 1-1

SECTION E1/2 NE TOWNSHIP 38S RANGE 25E COUNTY San Juan

DRILLING CONTRACTOR Coleman

RIG # 4

SPUDDED: DATE 12-30-87

TIME 2:00 AM

HOW Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Tim Bussell

TELEPHONE # (303) 565-3491 (Card 296)

DATE 12-31-87 SIGNED AS

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

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

010615

**SUNDRY NOTICES AND REPORTS ON WELLS**

(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**  
JAN 04 1987  
DIVISION OF  
OIL, GAS & MINING

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> TITE HOLE		5. LEASE DESIGNATION AND SERIAL NO. ML 29538
2. NAME OF OPERATOR Yates Petroleum Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 105 South 4th St., Artesia, NM 88210		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1320' FNL & 510' FEL (E $\frac{1}{2}$ /NE $\frac{1}{2}$ )  UNORTHODOX LOCATION		8. FARM OR LEASE NAME Great White State
14. PERMIT NO. API #43-037-31373	15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5368' GR	9. WELL NO. 1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 2-T38S-R25E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

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"/>	PULL 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"/>	

(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.)

Spudded 17-1/2" hole at 2:00 AM 12-30-87.

TITE HOLE!

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

SIGNED [Signature] TITLE Production Supervisor DATE 12-30-87

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN TRIPLICATE  
(Obtain instructions on reverse side)

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION AND SERIAL NO. ML 29538 <i>Drl.</i>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME  <b>011105</b>
1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Yates Petroleum Corporation		8. FARM OR LEASE NAME Great White State
3. ADDRESS OF OPERATOR 105 South 4th St., Artesia, NM 88210		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1320' FNL & 510' FEL (E $\frac{1}{2}$ /NE $\frac{1}{2}$ )		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR B.L. AND SURVEY OR AREA Section 2-T38S-R25E
14. PERMIT NO. API #43-037-31373	15. ELEVATIONS (Show whether OF, ST, GR, etc.) 5368' GR	12. COUNTY OR PARISH San Juan
		13. STATE Utah

**RECEIVED**  
JAN 07 1988

DIVISION OF  
OIL, GAS & MINING

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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <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) <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.)

12-30-87. Ran 2 joints 13-3/8" 54.5# K-55 ST&C casing set 82'. Baffle plate set 42'. Cemented with 150 sx Class "B" with 3% CaCl (yield 1.18, weight 15.6). PD 10:00 AM 12-30-87. WOC 11 hrs. NU and tested. Reduced hole to 12-1/4". Resumed drilling.

1-2-88. Ran 37 joints 8-5/8" 24# J-55 casing set 1550'. Regular guide shoe set 1550'. Float collar set 1529'. Cemented w/425 sx Pacesetter Lite with 1/2#/sx Celloseal, 5#/sx Gilsonite and 3% CaCl (Yield 1.81, weight 12.7). Tailed in w/250 sx Class "B" + 3% CaCl (yield 1.18, weight 15.6). PD 7:30 PM 1-2-88. Bumped plug to 950 psi, released pressure float held OK. Cement did not circulate. WOC 6 hrs. Spotted 100 sx Class "B" + 2% CaCl. WOC. Drilled out 8:00 PM 1-3-88. WOC 24 hours and 30 minutes. NU and tested casing to 1000 psi for 10 mins (BOP to 2500# for 10 mins), OK. Reduced hole to 7-7/8". Resumed drilling.

TITE HOLE!

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

SIGNED *[Signature]* TITLE Production Supervisor DATE 1-5-88

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED  
JAN 19 1988

DIVISION OF  
OIL, GAS & MINING

YATES PETROLEUM CORPORATION  
CHRONOLOGICAL DRILLING REPORT  
Great White State #1-1  
Unit A  
2-38S-25E  
San Juan County, Utah  
~~LITE HOLE~~

012110

43-037-31373

J.M.

- 12-16-87 Location: 1302' FNL & 510' FEL of Section: 2-38S-25E  
San Juan County, Utah. Lease No.: ML-29538. Elevation:  
5368' GR. Drilling Contractor: Coleman Rig #4.  
PTD: 5750' Akah. Starting location.
- 12-17-87 Building location.
- 12-18-87 Building location.
- 12-21-87 Building location.
- 12-22-87 Building location.
- 12-23-87 Building location.
- 12-28-87 prep to move in rotary tools.
- 12-29-87 Moving in rotary tools.
- 12-30-87 Drilling 52' sand and shale. Made 52' in 4 hours, 13'/hr.  
Spudded 17-1/2" hole at 2:00 AM 12-30-87. DMC \$500;  
CMC \$500; DC \$69,619.40; CC \$69,619.40
- 12-31-87 Drilling 167' sand and shale. Made 115' in 8 hours,  
14.38'/hr. MW 8.4, Vis 28. WOB all, RPM 75, SPM 96, PP  
900#. Ran and cemented 13-3/8" casing. DETAILED CASING  
REPORT TO FOLLOW. CMC \$500; DC \$6155.25; CC \$75,774.65
- 1-1-88 TD 1196' sand and shale. Conditioning mud. Made 1029' in  
21-1/2 hours, 47.87'/hr. MW 8.8, Vis 30, pH 9. Surveys  
513' 1/4 deg, 1018' 2-1/2 deg, 1048' 2-1/4 deg, 1079' 2-1/2  
deg. WOB 40000#, RPM 75, SPM 96, PP 1300#. DMC \$144;  
CMC \$644; DC \$17,092.55; CC \$92,867.20  
DETAILED CASING REPORT AS FOLLOWS: Reached TD to run  
casing 7:30 AM 12-30-87. Ran 2 joints 13-3/8" 54.50#  
K-55 ST&C (85') casing, set 82'. Baffle plate set 42'.  
Cemented with 150 sx Class "B" with 3% CaCl (yield 1.18,  
weight 15.6). PD 10:00 AM 12-30-87. Circulated 75 sacks  
to pit. WOC. Drilled out 9:00 PM 12-30-87. WOC 11 hours.  
Nippled up and tested to \_\_\_\_\_ # for \_\_\_\_\_ minutes, OK. Re-  
duced hole to 12-1/4". Resumed drilling.
- 1-2-88 TD 1526' sand and shale. Bit trip. Made 330' in 16-1/2  
hours, 20'/hr. MW 9, Vis 32, pH 9. Surveys 1202' 2 deg,  
1225' 2 deg, 1415' 2-1/4 deg, 1447' 2-3/4 deg. WOB  
20-45000#, RPM 80-100. DMC \$1428; CMC \$2072; DC  
\$5693.50; CC \$98,560.70
- 1-3-88 TD 1550' sand and shale. Nippling up BOP. Made 25' in  
2-1/2 hours, 10'/hr. Survey 1541' 2-3/4 deg. Ran and  
cemented 8-5/8" casing. DC \$28,448.75; CC \$127,009.45
- 1-4-88 Drilling 1706' sand and shale. Made 156' in 8 hours,  
19.5'/hr. MW - fresh water. Surveys 1573' 2-1/2 deg,  
1604' 2-1/2 deg, 1667' 2 deg. WOB 25000#, RPM 70, PP 1500#  
DC \$3953.20; CC \$130,962.65  
Ran 37 joints 8-5/8" 24# J-55 (1571') casing, set 1550'.  
Regular guide shoe set 1550'. Float collar set 1528.82'.  
Cemented with 425 sx Pacesetter Lite with 1/2#/sx Cello-  
seal, 5#/sx Gilsonite and 3% CaCl (yield 1.81, weight  
12.7). Tailed in with 250 sacks Class "B" + 3% CaCl  
(yield 1.18, weight 15.6). PD 7:30 PM 1-2-88. Bumped  
plug to 950 psi, released pressure and float held okay.  
Cement did not circulate. WOC 6 hours. Spotted 100  
sacks Class "B" + 2% CaCl. WOC. Drilled out 8:00 PM  
1-3-88. WOC 24 hours 30 mins. Nippled up and tested  
casing to 1000 psi for 10 mins (BOP to 2500# for 10 mins),  
OK. Reduced hole to 7-7/8". Resumed drilling.
- 1-5-88 Drilling 2976' sand and shale. Made 1270' in 21-1/2  
hours, 59'/hr. Drilling with fresh water. Surveys 1667'  
2 deg, 1757' 2 deg, 2161' 1/2 deg, 2658' 1/2 deg. WOB  
40000#, RPM 70, SPM 96, PP 1650#. DC \$20,646.50;  
CC \$151,609.15

Yates Petroleum - Great White State #1 (Unit A) 2-38S-25E San Juan Co., UT  
 \*\*\*\*\*

1-6-88 Drilling 3925' sand and shale. Made 949' in 20-1/2 hours, 46.3'/hr. Drilling with fresh water. Surveys 3122' 1-1/2 deg, 3152' 1 deg, 3212' 1 deg, 3353' 1 deg, 3532' 1-1/4 deg, 3876' 1 deg. WOB 40000#, RPM 65, SPM 96, PP 1600#. Have 3-1/4" water flow. DC \$15,533.55; CC \$167,142.70

1-7-88 TD 4754' sand and shale. Tripping for bit. Made 829' in 22 hours, 37.7'/hr. Drilling with fresh water. Surveys 4157' 1-1/4 deg, 4482' 1/2 deg. WOB 40000#, RPM 65, SPM 96, PP 1650#. DC \$13,619.55; CC \$180,762.25

1-8-88 Drilling 4820' sand. Made 66' in 3-1/2 hours, 18.8'/hr. MW 10.5, Vis 39, pH 8.5, Wl 17, FC 2/32. Survey 4754' 1-1/2 deg. WOB 40000#, RPM 65, SPM 96, PP 1800#. TIH with bit #5 at 4754'. DMC \$7270; CMC \$10,203; DC \$1449.70; CC \$182,211.95

1-9-88 Drilling 5160' lime and shale. Made 340' in 23-1/2 hours, 14.5'/hr. MW 10.5, Vis 45, pH 10.5, Wl 11, FC 2/32. WOB 45000#, RPM 65, PP 1800#. DMC \$811; CMC \$11,014; DC \$5667; CC \$187,878.95

1-10-88 Drilling 5337' sand and shale. Made 177' in 19 hours, 9.3'/hr. MW 10.6, Vis 41, pH 12.5, Wl 9, FC 2/32. Survey 5157' 2 deg. WOB 45000#, RPM 65, PP 1800#. DMC \$918; CMC \$11,932; DC \$3140.50; CC \$191,019.45

1-11-88 TD 5499' sand and shale. TIH for DST #1 5448-5499' Upper Ismay. Made 162' in 15-1/2 hours, 10.5'/hr. MW 10.6, Vis 39, pH 12.5, Wl 10, FC 2/32, Cl 2400. Survey 5499' 2 deg. WOB 45000#, RPM 65, SPM 96, PP 1800#. DC \$2908; CC \$193,927.45

1-12-88 Drilling 5594' Lower Ismay. Made 95' in 8-1/2 hours, 11.2'/hr. MW 10.4, Vis 410, pH 12.5, Wl 10, Cl 2600. WOB 45000#, RPM 65, SPM 96, PP 1800#. DMC \$2003; CMC \$15,694; DC \$9780; Cc \$203,707.45

RESULTS OF DST #1: TIMES - 15", 60", 60", 180". Opened with weak blow, 3/8# on 1/8" choke in 5 mins; 1/2# in 15 mins. Re-opened with weak blow, 1/4# in 10 mins. Stabilized at 1/4#. RECOVERY - 160' slightly gas cut drill mud. SAMPLER: .26 cu ft gas, 1800 cc mud at 1500 psi, Cl 2400 ppm - mud. BHT - 133 deg. PRESSURES -

	TOP	BOTTOM
IHP	3048	3066
IFP	41-41	47-47
ISIP	1960	1970
IFP	86-86	93-93
FSIP	2124	2137
FHP	2916	2927

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

5. LEASE DESIGNATION AND SERIAL NO.  
ML 29538 *Dr.*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
012501

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Great White State

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

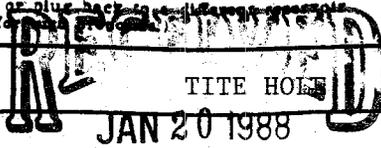
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 2-T38S-R25E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" (Form 36-1a))



1. OIL WELL  GAS WELL  OTHER  P&A  TITLE HOLD

2. NAME OF OPERATOR  
Yates Petroleum Corporation

3. ADDRESS OF OPERATOR  
105 South 4th St., Artesia, NM 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1320' FNL & 510' FEL (E $\frac{1}{2}$ /NE $\frac{1}{2}$ )

14. PERMIT NO.  
API #43-037-31373

15. ELEVATIONS (Show whether OF, ST, OR, ETC.)  
5368' GR

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"/>	

(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.)

TD 5787'. Reached TD 12:30 AM 1-13-88.  
Plugged well as follows:

- Plug #1 - 5350-5150' with 100 sx Class "B"
- Plug #2 - 1600-1500' with 35 sx Class "B"
- Plug #3 - Surface with 25 sx Class "B"

Plugging witnessed by William Hutchinson with Utah Natural Resources.  
Plugged well 1-14-88.

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

SIGNED *William Hutchinson* TITLE Production Supervisor DATE 1-18-88

(This space for Federal or State office use)

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

DATE: 1-25-88  
BY: *John R. Bays*

ARCHEOLOGICAL SURVEY OF  
YATES PETROLEUM CORPORATION'S  
GREAT WHITE STATE 1-1 WELL & ACCESS,  
SAN JUAN COUNTY, UTAH

LAC REPORT 87120

by  
Barry N. Hibbets

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.  
P.O. BOX 783  
DOLORES, COLORADO 81323  
(303) 882-4933

January 21, 1988

FEDERAL ANTIQUITIES PERMIT  
85UT57626  
UTAH STATE PERMIT  
U87-LA-629s

Prepared For:  
Yates Petroleum Corp.  
207 S. 4th Street  
Artesian, New Mexico 88210

## **ABSTRACT**

The archeological survey of Yates Petroleum Corp.'s Great White State 1-1 well pad and approximately two miles of access road was conducted by personnel of La Plata Archeological Consultants, Inc. during October, 1987. The well and ca. one mile of the access road is located on State owned land, while ca. one mile of the access is located on lands administered by the Bureau of Land Management in San Juan County, Utah. An area 660 X 660 feet surrounding the well center stake and a 100' wide corridor along the access road were inventoried for cultural resources. Two archeological sites were encountered. Neither of the sites will be adversely affected by the project if some protective measures are taken for site 42SA13940. It is recommended that a protective pad of earth be placed over the site prior to use of an existing road in the site vicinity for access to the well. Given this stipulation, and provided that the sites are otherwise strictly avoided, archeological clearance for the project is recommended.

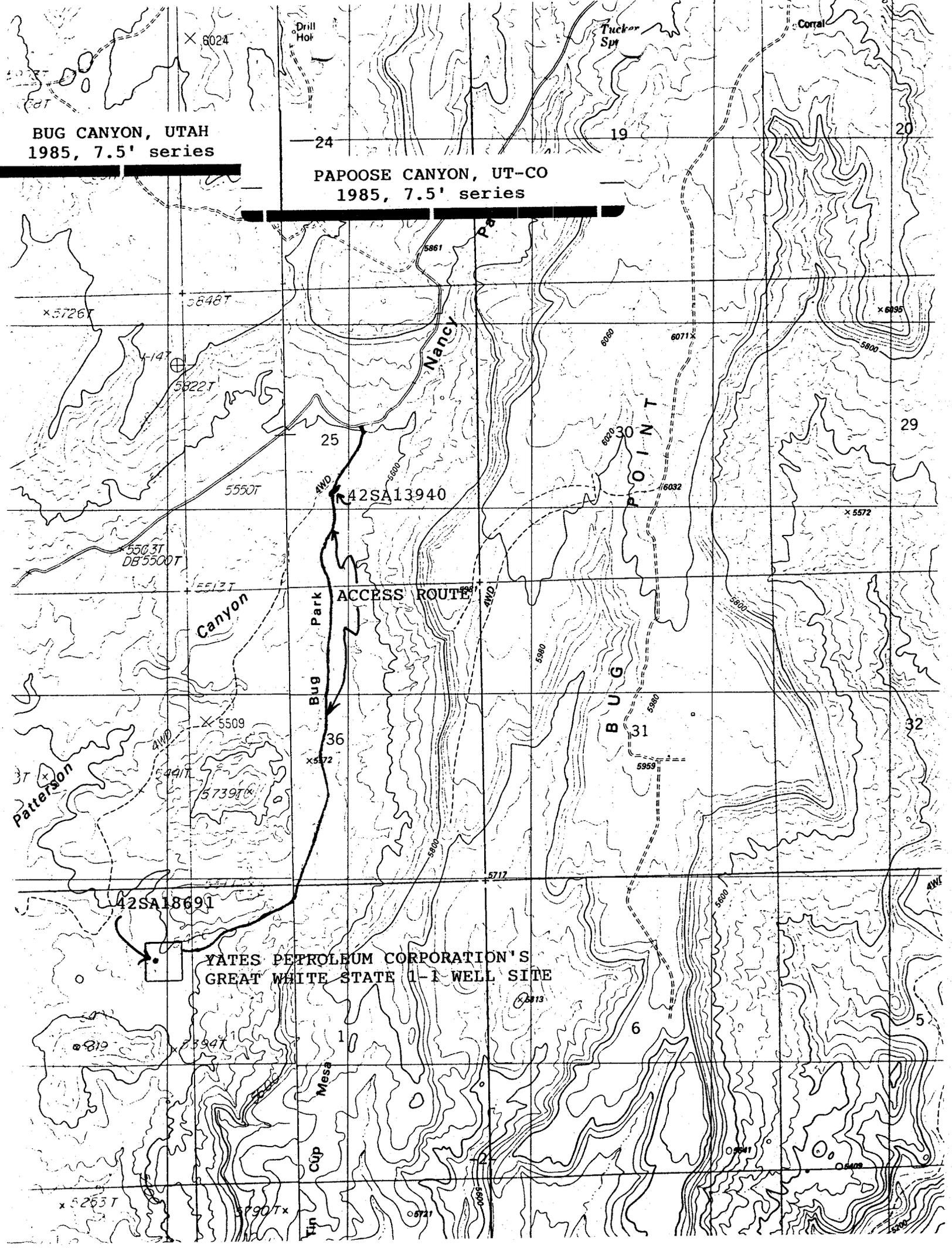
## **INTRODUCTION**

On October 8, 1987 the archeological survey of Yates Petroleum Corp.'s Great White State 1-1 well pad and an access road two miles in length was conducted by Barry Hibbets of La Plata Archeological Consultants, Inc. The project is located on Utah State lands, and land administered by the Bureau of Land Management in San Juan County, Utah. The well is situated in the NE 1/4, NE 1/4 of section 2, T38S, R25E. The access road is in sections 1 and 2, T38S, R25E; and sections 25 and 36, T37S, R25E. Only sections 2 and 36 are State land, while the remainder of the area is BLM land. The area is included on the Bug Canyon and Papoose Canyon 7.5' series topographic quadrangles.

The project consists of the construction of a single well pad ca. 275 x 325 feet in size, and an access road two miles in length.

BUG CANYON, UTAH  
1985, 7.5' series

PAPOOSE CANYON, UT-CO  
1985, 7.5' series



## **PHYSIOGRAPHY AND ENVIRONMENT**

The project is located in Bug Park, a valley-like area situated between Nancy Patterson and Little Nancy Canyons immediately to the west of Tin Cup Mesa. The terrain is gently undulating and dotted with ridges and low mesitas.

Vegetation consists primarily of sagebrush, saltbush, and cheat grass. Juniper are present on ridges and in sheltered areas.

Sediments consist of aeolian sand and sandy loam.

## **SURVEY PROCEDURES**

Prior to the field investigations a file search was requested through the Division of State History. Another search was conducted at the BLM office in Monticello. The searches indicated that several archeological sites had been recorded in the project vicinity: one of these was encountered during the survey (42SA13940).

On-the-ground survey consisted of walking a series of transects spaced 15 meters apart across an area 660 X 660 feet (ten acres) surrounding the well center stake. Two parallel transects were walked along the access route, effectively inventoring a 100' wide corridor. The newly discovered archeological site was documented on a standard IMACS site form.

## **SURVEY RESULTS**

Two archeological sites were encountered during the survey: one of these had been previously recorded. A brief description of the newly recorded site is presented below. More detailed information is contained in the site form submitted to the BLM and Division of State History.

Site No.: 42SA18691

Description: This site is situated near the southwestern tip of a low rocky ridge, and just below the rim of the ridge. It consists of a concentration rubble representing the remains of a one or two room structure. It appears that several large boulders were incorporated into the structure. The area directly below the structure has been bulldozed by uranium prospectors. Four flakes were the only artifacts noted.

## CONCLUSION

The archeological survey of Yates Petroleum Corp.'s Great White State 1-1 well pad and ca. two miles of access road was conducted by personnel of La Plata Archeological Consultants, Inc. on October 8, 1987. The well and ca. one mile of the access is located on Utah State lands, with the remaining ca. one mile of access is on BLM lands. The project is located in San Juan County, Utah. A 660 x 660' area surrounding the well center stake and a 100' wide corridor along the access route were inventoried for cultural resources. Two archeological sites were found. One of these (42SA13940) had been previously recorded, while the other (42SA18691) was recorded during the survey. The previously recorded site, located on BLM land, is bisected by an existing road to be used for access. In order to insure that the site is not adversely affected it is recommended that a protective pad of earth ca. 18" thick be placed over the site prior to the use of the road for access to the well. Given this stipulation archeological clearance for the project is recommended.



**La Plata Archeological Consultants, Inc.**

P.O. Box 783  
Dolores, Colorado 81323  
303-882-4933

CONFIDENTIAL

January 21, 1988

Mr. John Boza  
Utah Division of Natural Resources  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

012703

PA

43-037-31373

Mr. Boza:

Please find enclosed the archeological survey report for Yates Petroleum Corp.'s Great White State 1-1 well site located in San Juan County, Utah. The well site and ca. one mile of the access road is located on State land. Given the stipulations contained in the report final archeological clearance for the project has been recommended.

Sincerely,

Barry N. Hibbets  
Secretary-Treasurer

Distribution:

BLM - Monticello, Salt Lake City  
Division of State History  
Yates Petroleum Corp.

Enclosure  
BNH/cr

RECORDED  
JAN 25 1988

DIVISION OF  
OIL, GAS & MINING

STATE OF NEW MEXICO  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other P&A

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

2. NAME OF OPERATOR  
Yates Petroleum Corporation

3. ADDRESS OF OPERATOR  
105 South 4th St., Artesia, NM 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1320' FNL & 510' FEL (E 1/2, NE 1/4)

At top prod. interval reported below

At total depth

14. PERMIT NO. API #43-037-31373 DATE ISSUED JAN 25 1988

5. LEASE DESIGNATION AND SERIAL NO.

ML 29538

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

012702

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Great White State

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 2-T38S-R25E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

15. DATE SPUDDED 12-30-87 16. DATE T.D. REACHED 1-13-88 17. DATE COMPL. (Ready to prod.) Dry 18. ELEVATIONS (DF, REB, ET, GR, ETC.)\* 5368' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5787' 21. PLUG. BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY\* - 23. INTERVALS DRILLED BY X ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* None 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN LDT/CNL; DLL/MSFL; BHC 1-25-88 27. WAS WELL CORRD. No

29. 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"	54.5#	82'	17-1/2"	150 sx	
8-5/8"	24#	1550'	12-1/4"	775 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION  
DATE FIRST PRODUCTION: \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) \_\_\_\_\_

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

Logs

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

SIGNED [Signature] TITLE Production Supervisor DATE 1-20-88

# 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 pro these, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State agency. 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 (diplogs, geologists' sample and core analysis, all types electric, etc.), formation and pressure tests, and operational 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 1:** 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 2:** 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 22 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.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
			<p>DST #1 5448-5499' Upper Ismay. TIMES: TO 15', SI 60; TO 60", SI 180". Opened with weak blow, 3/8# on 1/8" choke in 5 mins; 1/2# in 15 mins. Reopened with weak blow, 1/4# in 10 mins. Stabilized at 1/4#. RECOVERY: 160' slightly gas cut drill mud. SAMPLER: .26 cfg, 1800 cc mud at 1500 psi, CI 2400 ppm - mud. BHT 133°. PRESSURES: Bottom: IHP 3066, IFP 47-47, ISIP 1970, IFP 93-93, FISP 2137, FHP 2927.</p>	<p>Entrada Navajo Chinle Shinarump Cutler Honaker Trail Paradox Upper Ismay Lower Ismay Up Desert Creek Lwr Desert Creek Akah</p>	<p>592 772 1425 2278 2473 4227 5249 5409 5577 5648 5715 5760</p>
					TOP

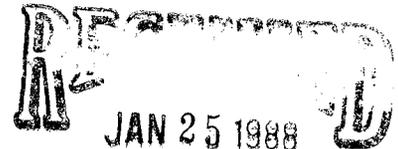


S. P. YATES  
PRESIDENT  
JOHN A. YATES  
VICE PRESIDENT  
B. W. HARPER  
SEC. - TREAS.

105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

January 20, 1988

Utah-Division of Oil & Gas  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203



Re: Great White State No. 1 Well - ML 29538  
Section 2-T38S-R25, San Juan County, UT  
API No. 43-037-31373

DIVISION OF  
OIL, GAS & MINING

Please return one copy of Form OGC-3 for the above captioned well for our well file.

Thank you.

Yours truly,

A handwritten signature in cursive script that reads 'Juanita Goodlett'.  
Juanita Goodlett  
Production Supervisor