

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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  
Petrostates Resources, Inc. (303) 565-4496

3. ADDRESS OF OPERATOR  
1512 Larimer Street, Suite 410, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
741.3' FSL, 2214.8' FWL (SESW)  
At proposed prod. zone  
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
6 miles north of Bluff

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 741.3'  
16. NO. OF ACRES IN LEASE 1711.38  
17. NO. OF ACRES ASSIGNED TO THIS WELL 80

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1100'  
19. PROPOSED DEPTH 5690'  
20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4611' GR

5. LEASE DESIGNATION AND SERIAL NO.  
~~U-17842~~ U-17824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
~~Decker Ranch Federal~~

8. FARM OR LEASE NAME  
Unit

9. WELL NO.  
1 4303730759

10. FIELD/AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA  
Section 19, T39S, R22E

12. COUNTY OR PARISH 13. STATE  
San Juan Utah

22. APPROX. DATE WORK WILL START\*  
January 15, 1982

23. (All New) PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20" CMP	Conductor	30'	15 sx Redimix
12-1/4"	8-5/8" K-55	24#	1800'	Circ. to Surface 550 sx±
7-7/8"	5-1/2" K-55	14# & 15.5#	Total Depth	500 sx±

Production casing size may change at reaching total depth; if this is necessary, U.S.G.S. will be notified via Sundry Notice.

Ten (10) Point Resource Protection Plan Attached.

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

24. SIGNED Thomas P. Leach TITLE Vice President - Land DATE 12-9-81  
Thomas P. Leach  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY WT Martin FOR E. W. GUYNN  
CONDITIONS OF APPROVAL, IF ANY: TITLE DISTRICT OIL & GAS SUPERVISOR DATE JAN 19 1982

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

PLANNING & CONSTRUCTION DIVISION  
GEOLOGICAL SURVEY  
WASHINGTON, D.C.

State Oil & Gas

Identification No. \_\_\_\_\_

United States Department of the Interior  
Geological Survey  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Petrostates Resources, Inc.

Project Type single zone exploration oil well

Project Location 74' FSL / 2215' FWL, sec. 19, T. 39 S., R. 22 E., San Juan County, Utah

Well No. No. 1 Decker Ranch Federal Unit Lease No. U-17824

Date Project Submitted \_\_\_\_\_

FIELD INSPECTION

Date December 10, 1981

Field Inspection Participants

Bob Anderson - agent for Petrostates  
Dean McClellan - Penny McDonald Construction  
Reed Wilson / Brian Wood - Bureau of Land Management  
Don Englishman - U.S. Geological Survey

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

December 10, 1981  
Date Prepared

Donald Englishman  
Environmental Scientist

I concur

JAN 18 1982  
Date

W.P. Mathis  
FOR E. W. GUYNN  
DISTRICT OIL & GAS SUPERVISOR  
District Supervisor

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

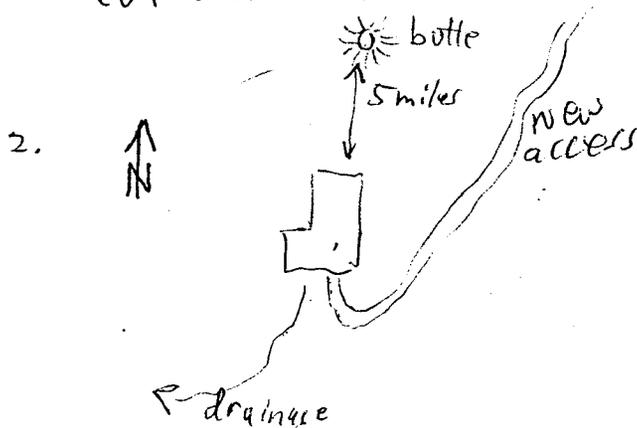
Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety						✓ A	✓		
2. Unique characteristics							✓		
3. Environmentally controversial							✓		
4. Uncertain and unknown risks							✓		
5. Establishes precedents							✓		
6. Cumulatively significant							✓		
7. National Register historic places	✓ 1-15-82								
8. Endangered/threatened species	✓ 1-15-82								
9. Violate Federal, State, local, tribal law						✓ A	✓		

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application for Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

Remarks:

1. Location not changed; pool rotated counterclockwise  $70^\circ$  from original proposed laydown (by surveyor) to reduce cut and fill.



3. well to be within the Decker Ranch Unit

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 DRILL       DEEPEN       PLUG BACK

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

2. NAME OF OPERATOR  
Petrostates Resources, Inc. <sup>303-825-6174</sup> <sup>307-266-4840</sup>  
~~(303) 665-4400~~

3. ADDRESS OF OPERATOR  
 1512 Larimer Street, Suite 410, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 741.3' FSL, 2214.8' FWL (SESW)  
 At proposed prod. zone: Same

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 6 miles north of Bluff

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17. NO. OF ACRES ASSIGNED TO THIS WELL      80

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.      1100'

19. PROPOSED DEPTH      5690' *Report*

20. ROTARY OR CABLE TOOLS      Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)      4611' GR

22. APPROX. DATE WORK WILL START\*      January 15, 1982

5. LEASE DESIGNATION AND SERIAL NO.      U-17842

6. IF INDIAN, ALLOTTEE OR TRIBE NAME      N/A

7. UNIT AGREEMENT NAME      ~~Decker Ranch Federal~~

8. FARM OR LEASE NAME      ~~Unit~~

9. WELL NO.      1

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA      Section 19, T39S, R22E

12. COUNTY OR PARISH      San Juan

13. STATE      Utah

23. (All New) PROPOSED CASING AND CEMENTING PROGRAM

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Production casing size may change at reaching total depth; if this is necessary, U.S.G.S. will be notified via Sundry Notice.

Ten (10) Point Resource Protection Plan Attached.

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

DATE: 2/10/82  
BY: [Signature]

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 Thomas P. Leach TITLE Vice President - Land DATE 12-9-81  
 Thomas P. Leach

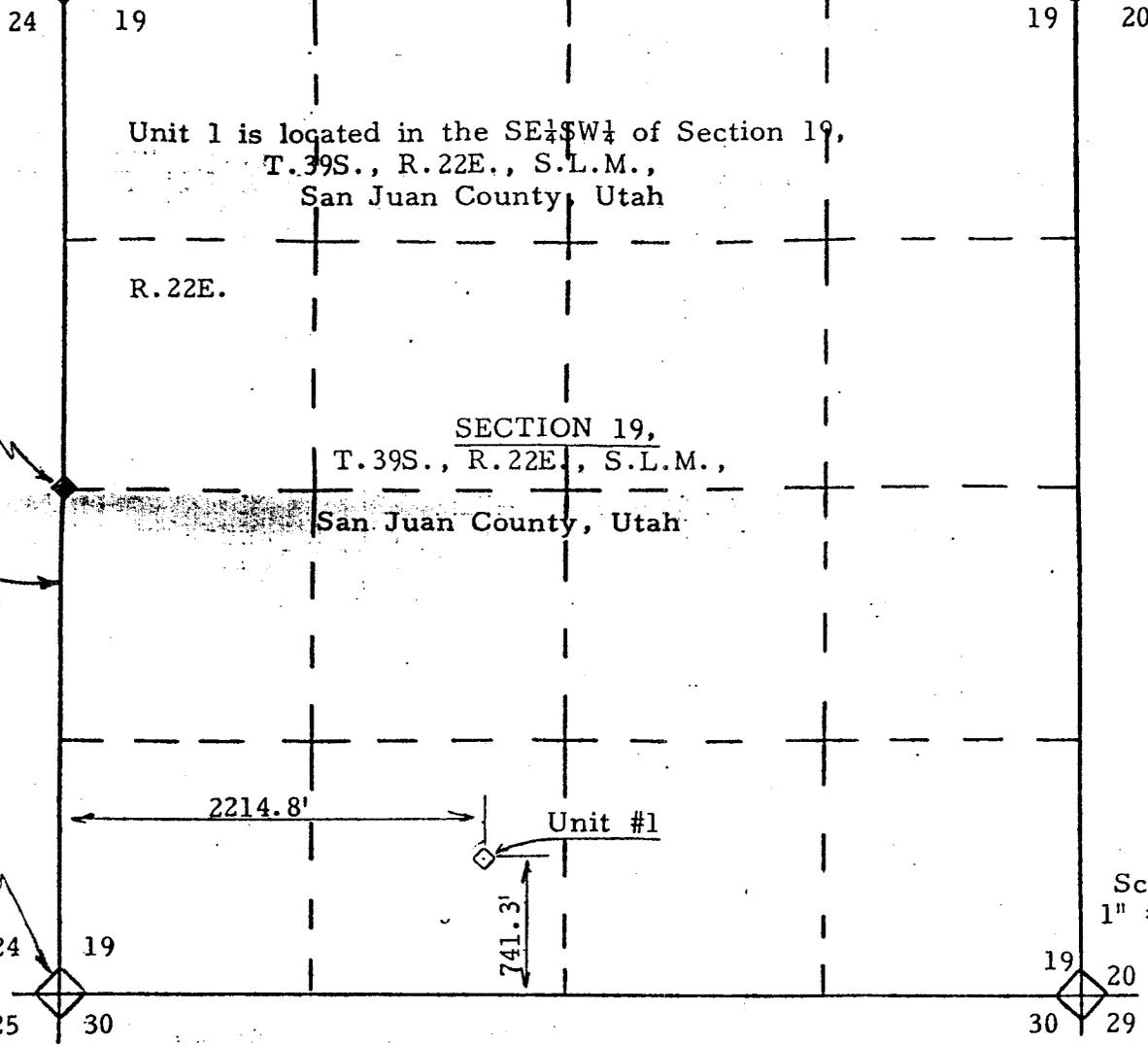
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

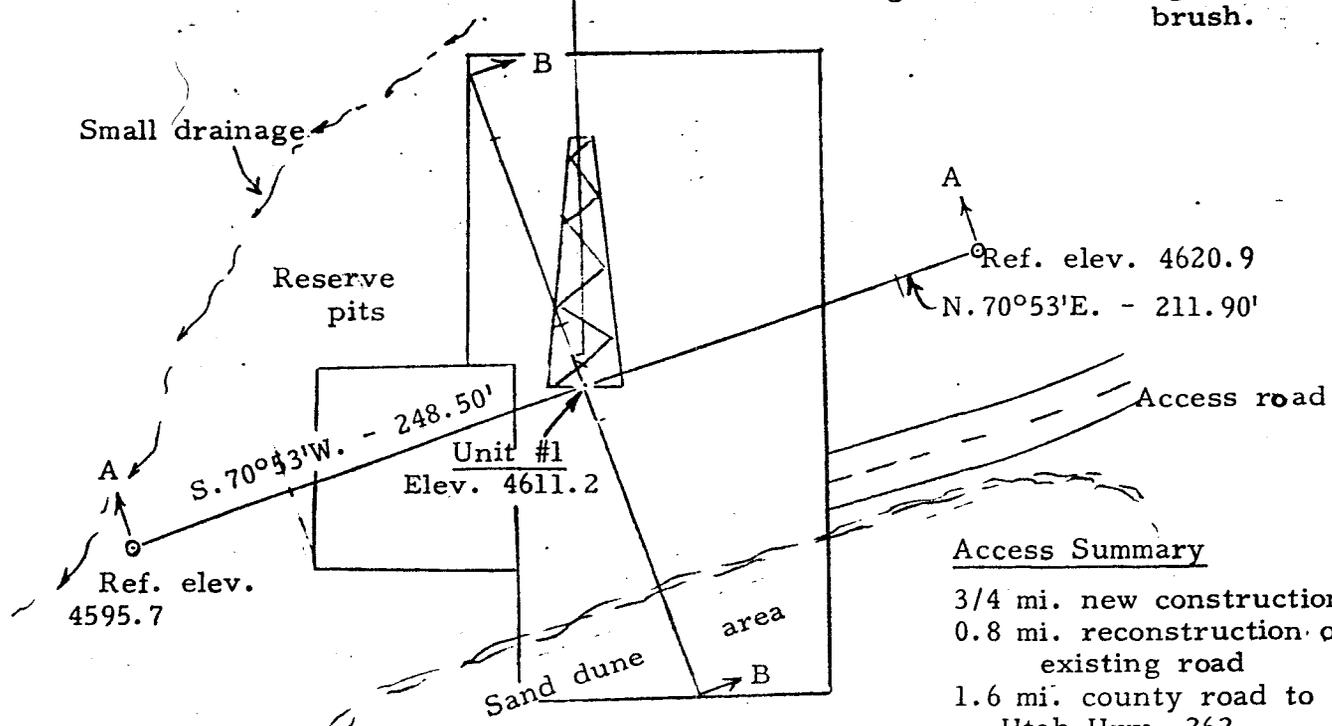
CONDITIONS OF APPROVAL, IF ANY:

BM - elev. 4757.1 as shown on USGS quad map for Bluff



Laydown - North

Soil: Sandy.  
Vegetation: Native grass and brush.



Access Summary

- 3/4 mi. new construction
- 0.8 mi. reconstruction of existing road
- 1.6 mi. county road to Utah Hwy. 262

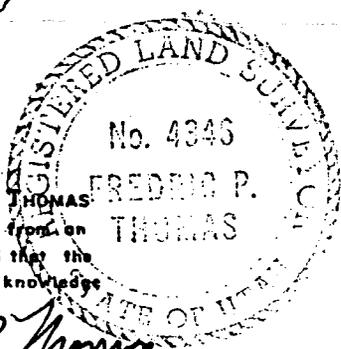
Scale: 1" = 100'

KNOW ALL MEN BY THESE PRESENTS:  
 THAT I, FREDRIC P. THOMAS  
 do hereby certify that I prepared this plat from an  
 actual and accurate survey of the land and that the  
 same is true and correct to the best of my knowledge  
 and belief.

*Fredric P. Thomas*

FREDRIC P THOMAS Bearing by  
 Reg. L.S. and P.E. Solar  
 Colo. Reg. No. 6728 observation

Utah Reg. No. 4346



THOMAS Engineering Inc.

215 N. Linden  
 Cortez, Colorado  
 565-4496

PETROSTATES RESOURCES, INC.

1-Unit

Drilling Prognosis

1. Surface Formation:

Morrison

2. Geologic Markers: (Estimated)

Navajo	485'
Cutler	2395'
Hermosa	4489'
Ismay	5331'
Lower Ismay	5433'
Desert Creek	5557'
Total Depth	5690'

3. Water, Oil and Gas Zones:

Navajo	485'	Water (?)
Lower Ismay	5453'	Oil/Gas
Desert Creek	5557'	Oil/Gas

All water sands if any, will be protected and reported.

4. Proposed Casing Program: 20" Conductor to be set @ 30' (Optional)

<u>String Length</u>	<u>Size</u>	<u>Weight/Ft.</u>	<u>Grade</u>
1800'	8-5/8"	24#	K-55 ST&C (New)
4100'	5-1/2"	14#	K-55 ST&C (New)
1600'	5-1/2"	15.5#	K-55 ST&C (New)

5. Pressure Control Equipment:

9 or 10" - 3000 psi, double hydraulic with hydril. Pressure test BOP on installation to 70% casing yield strength. Operational checks to be made daily and recorded on tour sheet.

6. Proposed Mud Program: (Visual Monitoring)

<u>Depth</u>	<u>Type of Mud</u>	<u>#/Gal.</u>	<u>Vis</u>	<u>WL</u>	<u>Chemicals</u>
0- 120'	Gel/Water/Lime	8.4-8.8	28-32	NC	Gel/Lime
120-2500'	Water/Benex	8.4-8.8	30-32	NC	Gel, Benex
2500-5000'	Low Solids, Non-Dispersed	8.8-9.3	42-46	8-10	Gel, Drispac, Caustic Soda
5000-Total Depth	Lightly Dispersed	8.8-9.5	42-46	4-8	Gel, Mod. Ligno., Caustic Soda

Sufficient weighting material (Barite) will be on location to increase mud weight if abnormal pressure is encountered.

7. Auxiliary Equipment:

- A. A kelly cock will be kept in the string.
- B. No float will be used at the bit.
- C. A mud logging unit will be monitoring the system.
- D. A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. Testing, Logging and Coring Program:

- Tests: DST - Lower Ismay and Desert Creek zones.
- Cores: None anticipated.
- Logs: Dual Induction - B/Surface Casing to Total Depth.  
CNL-FDC - 3690' to Total Depth.
- Stimulation: Acid frac Ismay and Desert Creek zones if deemed productive. U.S.G.S. will be notified prior to using any flammable fluids.

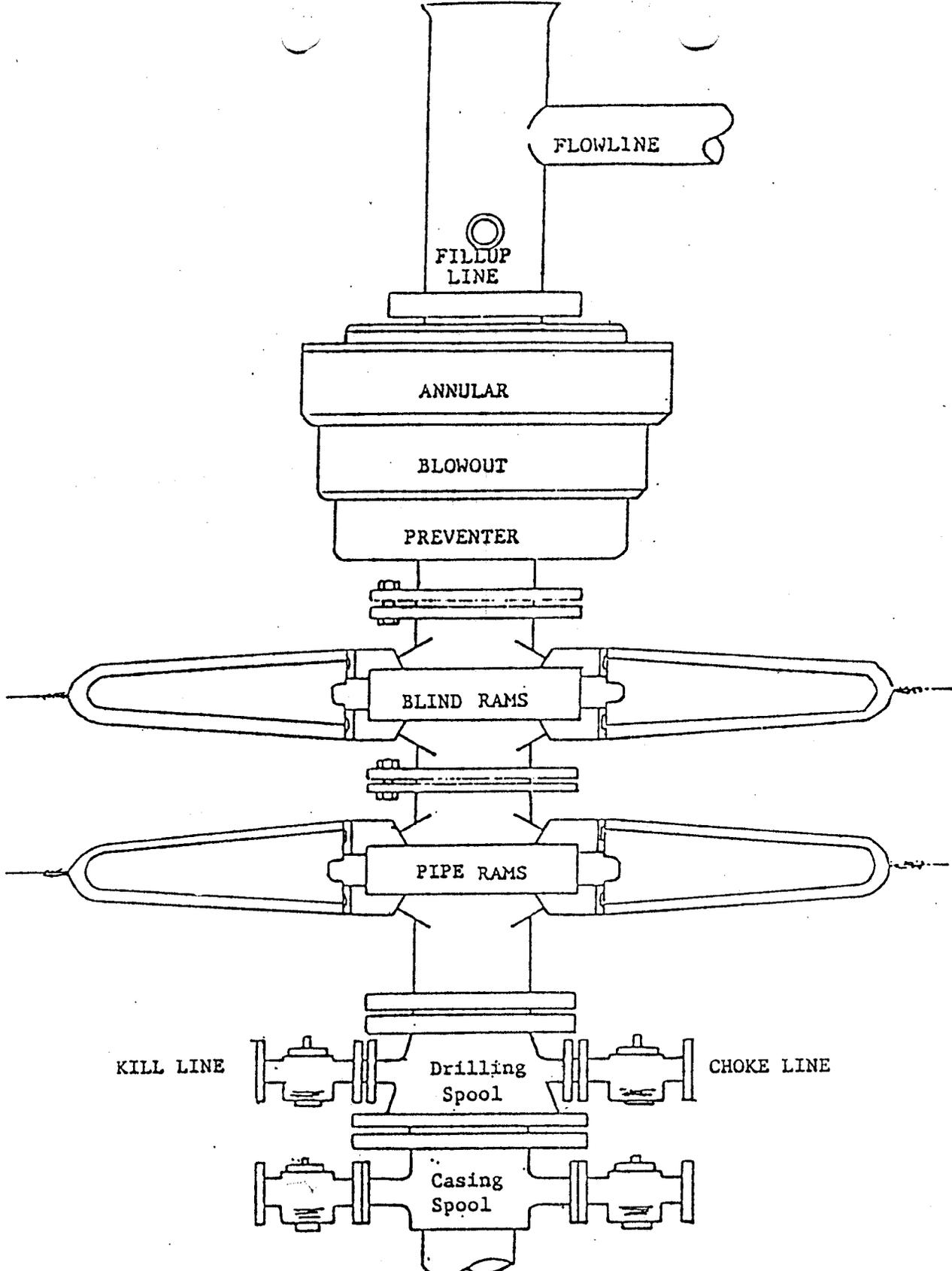
The drill pad, as approved, will be of sufficient size to accommodate all completion trucks and tanks.

9. Abnormal Conditions:

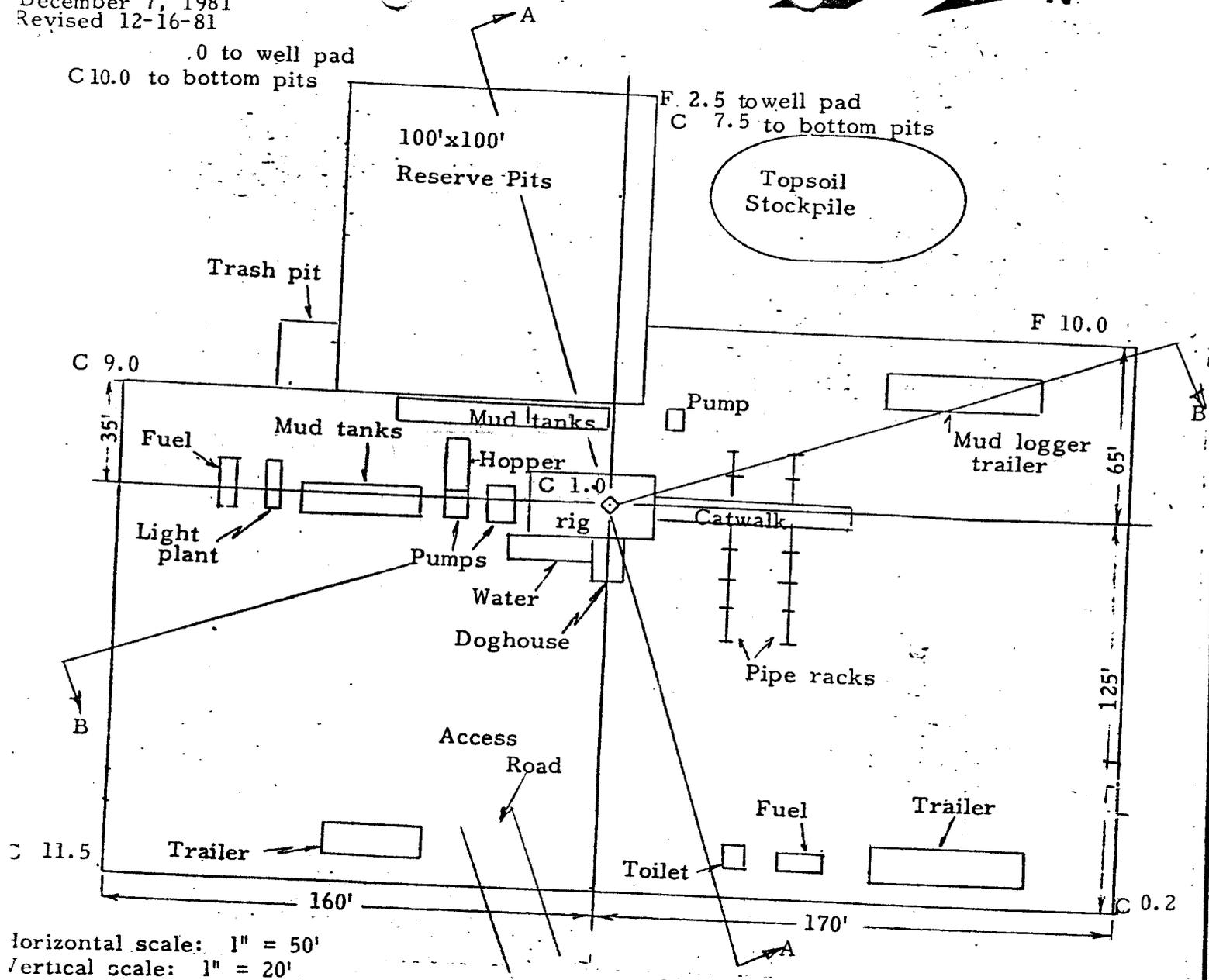
It is not anticipated that abnormal temperatures, pressures or toxic gases will be encountered. No H<sub>2</sub>S gas has been encountered from previous drilling at these depths.

10. Drilling Activity:

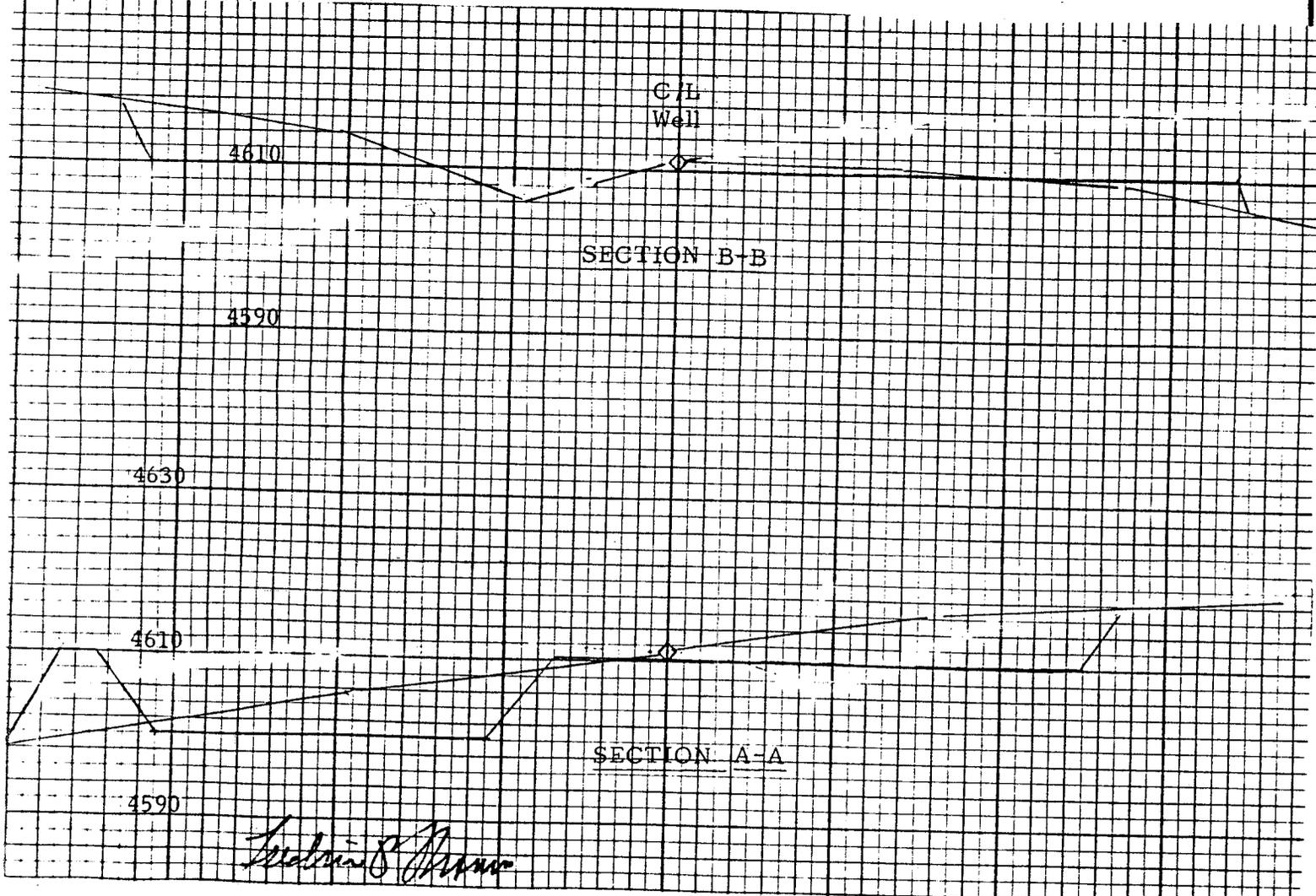
Drilling will commence on or about January 15, 1982. It is anticipated that 30 days will be required to drill this well.



Standard Blow out Preventer Hookup  
3000 psi Working Pressure



Horizontal scale: 1" = 50'  
 Vertical scale: 1" = 20'

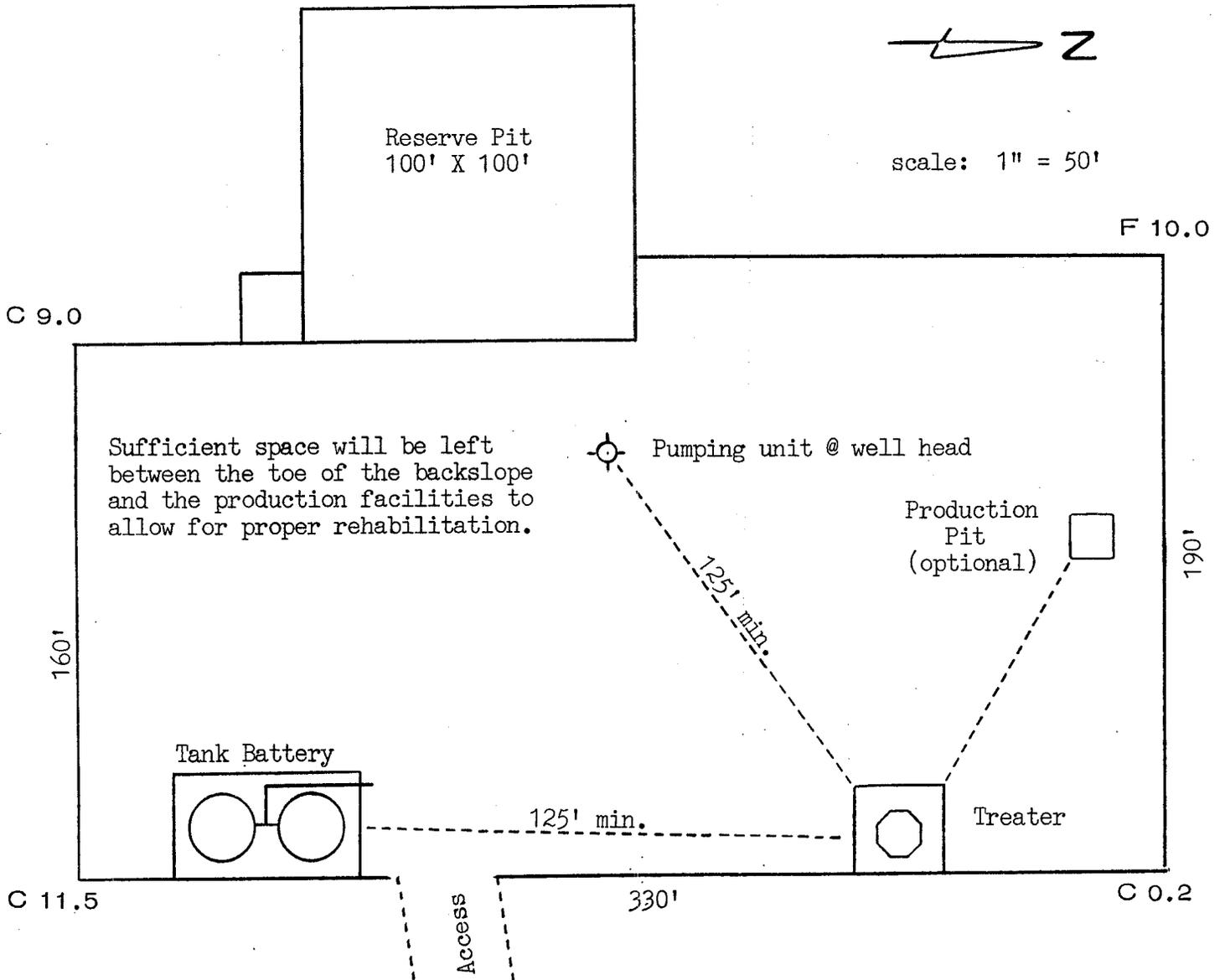


*Fredric P Thomas*

FREDRIC P THOMAS  
 Reg. L.S. and P.E.  
 Colo. Reg. No. 6728

Figure 1

Petrostates Resources,  
Decker Ranch Unit # 1  
SE $\frac{1}{4}$ SW $\frac{1}{4}$  Section 19, T39S, R22E  
San Juan County, Utah



Production Facility Layout

Figure # 2

PETROSTATES RESOURCES, INC.

Lease # U-17824, Decker Ranch Unit # 1  
SE $\frac{1}{4}$ SW $\frac{1}{4}$ , Section 19, T.39S., R.22E.  
San Juan County, Utah

Multi-Point Surface Use and Operations Plan

1. Existing Roads: Refer to Maps "A" and "B" (Shown in RED)

- A. The proposed well site is staked and the surveyors plat attached. Two 200 foot reference stakes are present.
- B. To reach the location, proceed north approximately 8.3 miles from Bluff on U.S. Highway 163, thence northwest approximately 1.6 miles on an existing county road, thence southwest approximately 0.8 miles on an existing road, thence southwest approximately 0.8 miles to the location.
- C. Access roads - refer to Maps "A" and "B".
- D. Existing roads within a three-mile radius - refer to Maps "A" and "B".
- E. Not applicable.
- F. The existing road will require minor upgrading and maintenance as necessary to provide access during the drilling operation. This upgrading and maintenance will be restricted to the existing 20 foot road Right-of-Way. A cattleguard will be required in a N/S fenceline between Sections 19 and 20. The San Juan County Road Department in Monticello will be contacted prior to use of the existing county road (801) 587-2231, extension 43.

2. Planned Access Road:

Approximately 0.8 miles of new access road will be required.

- A. Width - 18 feet, flat-bladed for drilling and completion operations.
- B. Maximum grade - 7%.
- C. Turnouts - none required.
- D. Drainage design - road will be crowned and ditched with water turnouts as required if production is established.
- E. Culverts, cuts and fills - no culverts will be required for drilling. Maximum cuts and fills will be 7 feet. If production is established, culverts will be installed as required and cut and fill slopes will be sloped to BLM recommendations.
- F. Surfacing material - no outside construction materials will be required.
- G. Gates, cattleguards or fence cuts - one cattleguard will be required.
- H. New access road is flagged.

3. Location of Existing Wells: (Within a Two-Mile Radius)

- A. Water wells - none known.
- B. Abandoned wells - refer to Map "C".
- C. Temporarily abandoned wells - none known.
- D. Disposal wells - none known.
- E. Drilling wells - none known.
- F. Producing wells - refer to Map "C".

3. Location of Existing Wells: Continued

- G. Shut-in wells - none known.
- H. Injection wells - none known.
- I. Monitoring or observation wells - none known.

4. Location of Existing and/or Proposed Facilities Owned by Petrostates Resources, Inc. Within a Two-Mile Radius:

A. Existing

- 1. Tank batteries - none.
- 2. Production facilities - none.
- 3. Oil gathering lines - none.
- 4. Gas gathering lines - none.

B. New Facilities Contemplated (Refer to Figure #2)

- 1. All production facilities will be located on the disturbed portion of the well pad and will be painted a neutral color to blend in with the surrounding topography.
- 2. Production facilities will require an area approximately 175' X 175'.
- 3. Production facilities will be accommodated on the well pad. Construction materials needed for installation of the production facilities will be obtained from the site, any additional materials needed will be purchased from a local supplier.
- 4. Any open pits will be fenced to protect livestock and wildlife.

C. Rehabilitation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as recommended by the BLM.

5. Location and Type of Water Supply:

- A. Drilling water will be obtained from the municipal water supply of the town of Blanding, Utah. An alternate water source will be springs located on the Decker Ranch in the SW $\frac{1}{4}$  SW $\frac{1}{4}$ , Section 17, T.39S., R.22E.
- B. The water will be trucked over existing roads to the well location. No new construction will be required on/along the water haul route.
- C. No water well will be drilled on this location.

6. Source of Construction Materials:

- A. No construction materials will be needed for access road and well pad construction, surface and sub-surface soils will be sufficient.
- B. Not applicable.
- C. If production is obtained, any construction materials needed for surfacing access road and installation of production facilities will be purchased from a local supplier. Surfacing materials will not be placed on the access road or location without prior approval of both the USGS and BLM.
- D. No new access roads for construction materials will be required.

7. Methods of Handling Waste Material Disposal:

- A. Cuttings - the cuttings will be deposited in the reserve pit.
- B. Drilling fluids - contained in reserve pit and allowed to evaporate.
- C. Produced fluids - fluids produced during the completion operation will be collected in test tanks. Any spills of oil, gas, salt water or other noxious fluids will be cleaned up and removed.
- D. Sewage - chemical toilets will be provided.
- E. Garbage and other waste material - garbage, trash and flammable wastes will be handled in the trash/burn pit. The trash/burn pit will be constructed near the mud tanks with steep sides and dug at least six feet in solid ground. The trash/burn pit will be completely enclosed with small mesh wire during drilling and will be buried with a minimum of two feet of compacted earth upon completion of operations. A burning permit will be obtained from the State Fire Warden (John Baker (801) 587-2705) prior to burning any trash during the period from May 1 to October 31.
- F. After the rig moves out, all materials will be cleaned up and no adverse materials will be left on the location. Any open pits will be fenced during drilling and kept fenced until such time as the pits are backfilled.

8. Ancillary Facilities:

None.

9. Wellsite Layout:

- A. Figure #1 shows the drill site layout as staked. Cross-sections have been drafted to visualize the planned cuts and fills across the location. Eight inches of topsoil will be stockpiled per BLM specifications and stockpiled on the northwest side of the location.
- B. Figure #1 is a diagram showing the rig layout. No permanent living facilities are planned. There will be three trailers on location; one each for mud logger, tool pusher and geologist.
- C. Figure #2 shows the proposed production facilities layout.
- D. The reserve pit will be lined with commercial bentonite to prevent seepage.

10. Plans for Restoration of the Surface:

- A. Backfilling, leveling and recontouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be hauled to an approved sanitary landfill immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- B. The soil banked material will be spread over the area with enough topsoil retained to reclaim the remainder of the location at a future date. Revegetation will be accomplished by planting mixed grasses as per formula by BLM:
  - 2 lbs/acre Indian Ricegrass
  - 2 lbs/acre Fourwing Saltbush
  - 1 lb/acre Sand Dropseed

10. Plans for Restoration of the Surface: Continued

- Prior to seeding, all disturbed areas will be scarified on the contour to a depth of 18 inches. The seed will be broadcast and a harrow dragged over the area to assure seed cover. Revegetation is recommended for road area, as well as around drill pad.
- C. Three sides of the reserve pit will be fenced with four strands of barbed wire during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped, and the fencing will be maintained until leveling and cleanup are accomplished.
  - D. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh.
  - E. The rehabilitation operations will begin after the drilling rig is removed. The San Juan Resource Area BLM Office in Monticello, Utah will be contacted 48 hours prior to beginning rehabilitation work and upon completion of said work, (801) 587-2201. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best in Fall, 1984, unless requested otherwise.

11. Other Information:

- A. The project area is situated on the Bluff Bench in an area of sandstone bluffs and outcroppings. This area is typical of the high desert country with the soil consisting of a red sandy-clay composition typical of the Morrison Formation. Flora consists of Indian Ricegrass, Cheatgrass, Curly Grass, Sand Dropseed, Fourwing Saltbush, Greasewood, Green Ephedra, Yucca, Juniper, and Sagebrush. Fauna consists of deer, coyotes, rabbits, raptors and various other small vertebrates.
- B. The primary surface use is for grazing. The well site surface is owned by the Federal Government.
- C.
  - 1. There is no local permanent water source; drainage runs to the intermittent flow of Cottonwood Wash approximately 0.5 miles west of the location.
  - 2. The closest occupied dwellings are located in the town of Bluff, Utah.
  - 3. There are no known archeological, historical or cultural sites that will be disturbed by this drilling operation. In the event subsurface cultural materials are exposed during construction, work will stop immediately and the BLM office in Monticello notified at once.

12. Lessee's or Operator's Representative:

\*\* Heitzman Drill-Site Services  
Dale Heitzman  
Robert M. Anderson  
P. O. Box 2361  
Casper, Wyoming 82602  
(307) 266-4840

Petrostates Resources, Inc.  
Thomas P. Leach  
1512 Larimer Street, Suite 410  
Denver, Colorado 80202  
(303) 825-6174

12. Lessee's or Operator's Representative: Continued

\*\* Contact for the pre-drill inspection and additional information if required.

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operations proposed herein will be performed by Petrostates Resources, Inc. and its contractors and sub-contractors in conformity with this plan and conditions under which it is approved.

DECEMBER 16, 1981

Date



Robert M. Anderson

AMENDMENTS TO SURFACE USE PLAN

and

RECLAMATION PROCEDURES

Lease No.: U-17824 Pre-drill Inspection Date: Dec. 10, 1981

Operator: Petrostates Resources, Inc. Participants:  
Brian Wood, BLM  
Reed Wilson, BLM

Well Name: Decker Ranch Unit # 1 Don Englishman, USGS  
Dean McClellan, Perry McDonald Construction Company

Well Location: SE $\frac{1}{4}$  SW $\frac{1}{4}$ , Section 19 Ken Reynolds, Pilot  
T.39S., R.22E. Bob Anderson, Heitzman Drill-Site Services

Construction:

1. The operator or his contractor will contact the San Juan Resource Area Office in Monticello, Utah (Phone (801) 587-2201) 48 hours prior to beginning any work on public land.
2. The dirt contractor will be furnished with a copy of the Surface Use Plan and any additional BLM stipulations prior to any work.
3. The San Juan County Road Department in Monticello will be contacted prior to the use of county roads for this activity, at (801) 587-2231, ext. 43.
4. Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.

5. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archeological sites or picking up artifacts. Salvage or excavation of identified archeological sites will only be done if damage occurs.
6. Improvement to existing access will be necessary and will be limited to a total disturbed width of 20 feet. New construction will be limited to a total disturbed width of 20 feet. Road surface will be flat bladed to remove brush, no ditching or water bars or culverts will be installed. One cattleguard will be installed and will remain if production is established. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
7. The top 8 inches of soil material will be removed from the location and stockpiled separate from the trees on the northwest side of the location. Topsoil along the access will be reserved in place.
8. A trash pit will be constructed near the mud tanks with steep sides and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine mesh wire before the rig moves onto the location. Trash will be burned frequently.
9. The reserve pit will be lined with commercial bentonite sufficient to prevent seepage if rock is encountered.

10. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.
11. A burning permit will be required before burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker at (801) 587-2705.

Rehabilitation:

1. Immediately on completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit. Trash will be compacted and buried under a minimum of two feet of compacted earth.
2. The operator or his contractor will contact the San Juan Resource Area BLM office in Monticello, Utah, phone (801) 587-2201, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography.

5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 18 inches.
7. Seed will be broadcast at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.

2 lbs/acre Indian ricegrass (Oryzopsis hymenoides)

2 lbs/acre Fourwing saltbush (Atriplex canescens)

1 lb/acre Sand dropseed (Sporobolus cryptandrus)

8. After seeding is complete the stockpiled trees will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent future use. The previously existing access road up to the gate between Sections 19 and 20 will be narrowed to 12 feet and the restored shoulders reseeded. The remaining access road from that point to the well location will be blocked and rehabilitated.
9. Water bars will constructed as directed by BLM to control erosion.

#### Production:

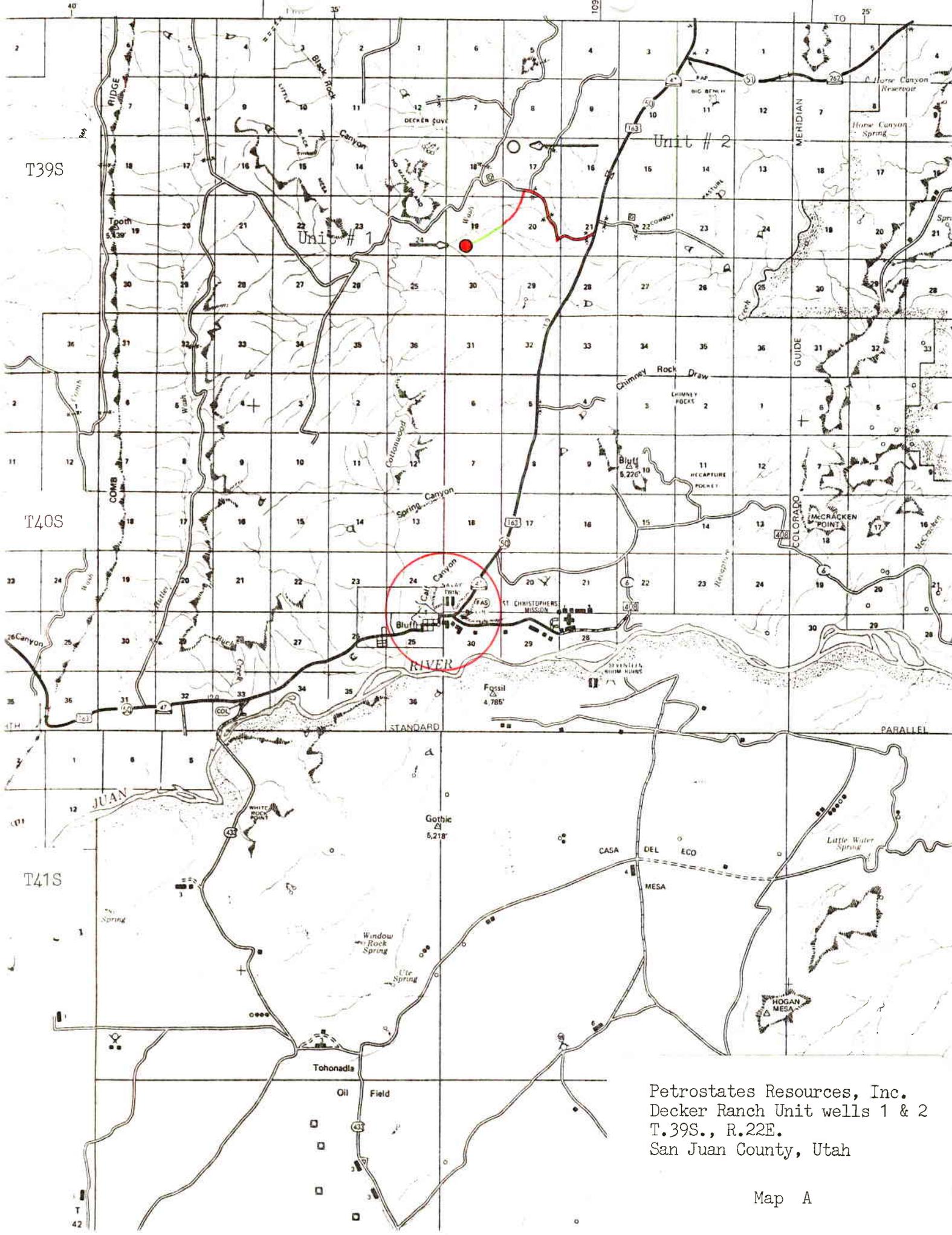
1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Enough topsoil will be retained to reclaim the remainder of the location at a future date. The remaining

1. Continued

stockpile of topsoil will be seeded in place using the prescribed seed mixture.

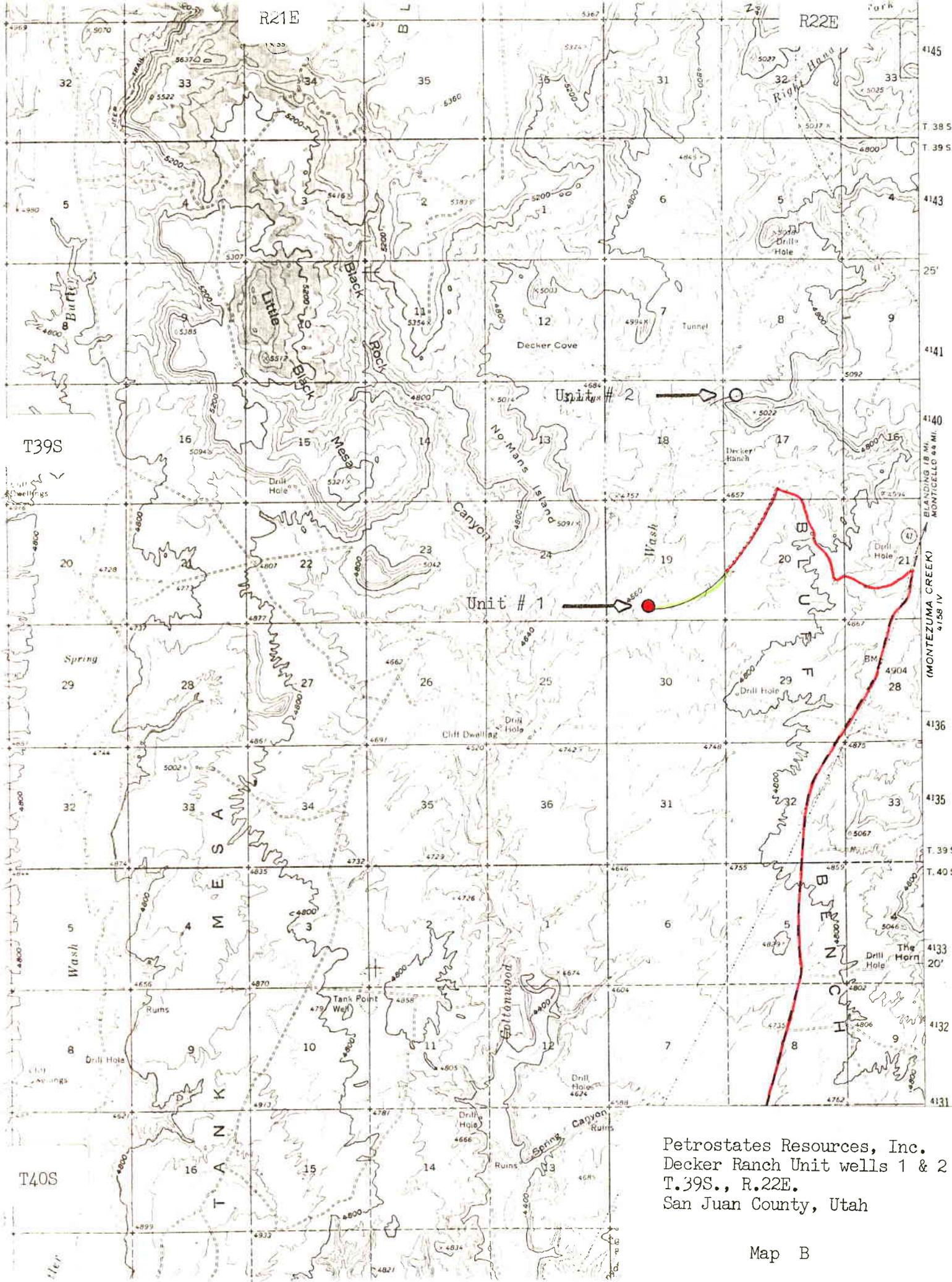
2. All above-ground production facilities will be painted a neutral color to be approved by the BLM.

3. The access shall be upgraded to BLM specifications.



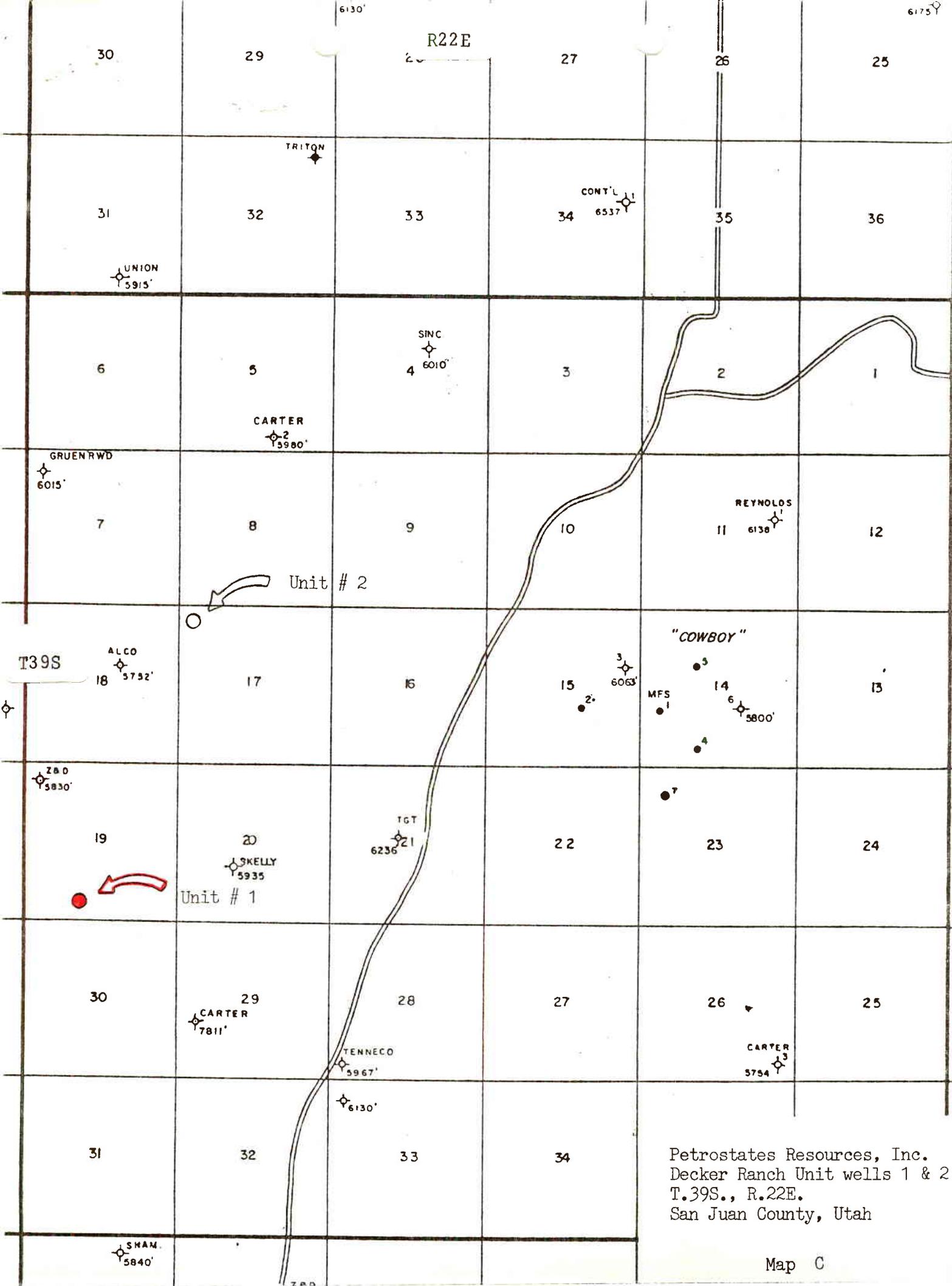
Petrostates Resources, Inc.  
 Decker Ranch Unit wells 1 & 2  
 T.39S., R.22E.  
 San Juan County, Utah

Map A



Petrostates Resources, Inc.  
 Decker Ranch Unit wells 1 & 2  
 T.39S., R.22E.  
 San Juan County, Utah

Map B



6175

R22E

30

29

27

26

25

TRITON

CONT'L  
6537

31

32

33

34

35

36

UNION  
5915

6

5

SINC  
4  
6010

3

2

1

CARTER  
2  
5980

GRUENRWD  
6015

7

8

9

10

REYNOLDS  
11  
6138

12

Unit # 2

T39S

ALCO  
18  
5752

17

16

15

"COWBOY"

3  
6063

14  
6  
5800

13

Z&D  
5830

19

20  
SKELLY  
5935

TGT  
21  
6236

22

23

24

Unit # 1

30

29  
CARTER  
7811

28

27

26

25

TENNECO  
5967  
6130

CARTER  
3  
5754

31

32

33

34

Petrostates Resources, Inc.  
Decker Ranch Unit wells 1 & 2  
T.39S., R.22E.  
San Juan County, Utah

SHAM  
5840

Map C

\*\* FILE NOTATIONS \*\*

DATE: 1-6-82  
OPERATOR: Petrostates Resources, Inc.  
WELL NO: ~~#~~ Decker Ranch Federal #1  
Location: Sec. 19 T. 39S R. 22E County: San Juan

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API Number 43-037-30759

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_

Director: OK on unit  
\_\_\_\_\_

Administrative Aide: As per rule C-3(c) need topog.  
(Unit not approved) by more location. It is better  
oil & gas wells. Unit well (approved by USGS 1/28/82)

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. \_\_\_\_\_ O.K. Rule C-3   
Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site   
Lease Designation Fed Plotted on Map   
Approval Letter Written   
Hot Line  P.I.

**WILLIAM C. HAFEMAN**

GEOLOGICAL CONSULTING  
AND  
LEASE BROKERAGE

4532 Mathews Way  
SALT LAKE CITY 16, UTAH

GEOLOGICAL REPORT

Petrostates Resources #1 Decker Ranch Unit  
SE/SW Section 19, T. 39 So., Rge. 22 E.  
San Juan County, Utah

By: W. C. Hafeman

WELL DATA SUMMARY

OPERATOR: Petrostates Resources

WELL: No. 1 Decker Ranch Unit

LOCATION: 741' from South line, 2215' from West line, Sec. 19, T. 39 South, Rge. 22 East, San Juan Co., Utah

ELEVATION: 4611' Ground, 4624' KB

CASING: 13 3/8" @ 400' cemented to surface

SPUD: February 16, 1982 (Inside Conductor)

COMPLETED: February 28, 1982

DRILL STEM TESTS: None

CORES: None

MUD: Gel and Chemicals, lignite

ELECTRIC LOGS: Schlumberger Dual Induction (DIL-SFL-SP) Surface to T.D.; Schlumberger Formational Density-Compensated Neutron Log (FDC-CNL-GR) 3700' to T.D.

CONTRACTOR: Coleman Drilling, Farmington, N. Mex. Rig #3

CONSULTING ENGINEER. Ray Singleton, R. J. Singleton & Assoc.

TOTAL DEPTH: 5763' Driller; 5769' Logger

SAMPLES: 10' intervals 1800' - 5000'  
5' intervals 5000' - T.D.

GAS DETECTOR: On Location 2-23-82. Rigged & logging @ 4300'; one man unit, Smith Mud Logging Delta, Colo. On location to T.D.

MUD LOGGING ENGR. Phillip Smith

MUD PROGRAM: Began mixing mud @ 4980'. Insufficient mud on location for controlled mud program. Proper mud-control program re-instituted 2-24-82 @ 5335'

STATUS: Dry & Abandoned. Plugged as per instructions given to Engineer, R.J. Singleton

CHRONOLOGICAL SUMMARY

2-15-82 MIRU

2-16-82 Spudded in through Conductor pipe

2-17-82 Drilled & reamed surface hole

2-18-82 Completed reaming surface hole to 409' set 400' of 13 3/8" surface pipe, cemented to surface

2-19-82 Drill out from under surface pipe @ 2:05 a.m. Drill to 1735'. WATER FLOW ENCOUNTERED @ 1152'; Directional Surveys: @ 945' deviation 1 3/4 degrees; @ 1490' deviation 2 1/4 degrees. Trip for bit #2

2-20-82 Drill to 2926'. Directional Survey @ 2512' deviation 1 1/4 degrees. Clean out flow lines and jet pits.

2-21-82 Drill to 3726'. Directional Survey @ 2998' deviation 1/2 degree.

2-22-82 Drill to 4234'. Trip for bit #3 @ 4230'. SLM @ 4230, Corrected Geograph. Jet pits @ 3830'. Bit #4 in hole @ 4230' Reed EP 53.

2-23-82 Drill to 4768'. Directional Survey @ 4653' deviation 0.

2-24-82 Drill to 5231'. Began mixing mud @ 4980'. (Not noted on geograph).

2-25-82 Drill to 5522'. Work on pump. Main pump down @ 5480', switch to standby pump. Pump pressure dropped from 1700 psi to 1400 psi.

2-26-82 Drill to 5667'. Trip for bit #4 @ 5580' Bit #5 in hole @ 5580', Security S-86-F.

2-27-82 Reached T.D. @ 5763 Drlr. Circulate to run logs. Ran Dual Induction Log and Formational Density, Compensated Neutron Logs. Lay down drill pipe.

2-23-82 Plug hole in accordance with instructions given to R. J. Singleton.

BIT RECORD

<u>RUN NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FOOTAGE USED</u>	<u>HOURS RUN</u>
1	12 3/4"	RTC(RR)	RR	400'	343'	10
2	7 7/8"	Sec.	S-44	1530'	1130'	13 1/4
3	7 7/8"	Reed	HS-51J	4230'	2700'	66 1/4
4	7 7/8"	Reed	EP 53	5580'	1350'	76 3/4
5	7 7/8"	Sec.	S-86-F	5763'	183'	17 1/2

DEVIATION

<u>DEPTH</u>	<u>DRIFT</u>
945'	1 3/4 degrees
1490'	2 1/4 "
2512'	1 1/4 "
2998'	1/2 "
4140'	3/4 "
4653'	0 "
5574'	3/4 "

SCHLUMBERGER FORMATION TOPS

<u>FORMATION</u>	<u>DEPTH</u>	<u>K.B. SUPER OR SUBSEA</u>
Navajo	673	/ 3951
Kayenta	1090	/ 3534
Wingate	1222	/ 3402
Chinle	1620	/ 3004
Moenkopi	2420	/ 2204
DeChelley	2640	/ 1984
Cutler	2742	/ 1882
Hermosa	4474	/ 150
"A" Shale	5423	- 799
Ismay Zone	5438	- 814
Lower Ismay Zone	5538	- 914
Gothic Shale	5588	- 964
Desert Creek Zone	5638	- 1014
Lower Desert Creek Zone	5700	- 1076
"C" Shale	5742	- 1118

DRILL STEM TESTS

NONE

SAMPLE DESCRIPTIONS

Ditch samples were collected at 10' intervals from 1800' to 5000' and at 5' intervals from 5000' to T.D. Sample depths have been adjusted to correspond with electric log measurements. My sample descriptions start at 5000'. Samples were examined under ultraviolet light for indications of hydrocarbons in all possible producing zones and were examined under the microscope from 5000' to T.D.

5000' - 5120' Predominantly Permian Red beds, shale, SS & traces of fresh water pink Ls. Sample quality very poor. Some traces of Hermosa Ls, gray, dns to microxln. Trace Med-gray calc sh and tan chert.

- 5120 - 5138 Ls fxln to dns, tan to med brown, some mottled w/chalky gy ls.
- 5138 - 5172 Ls white, chalky, micac in part. trace white lmy and dolo clay. Sh med-gy, soft, calc, micac in part.
- 5172 - 5236 Alternating thin Ls beds - tan to brown, microxln - and Sh, calc, med-gy, and Sltst, calc grading to clayey fg ss.
- 5236 - 5310 Samples very poor and not representative.
- 5310- 5338 Sh, gray, micac, calc, and Sltst, gy, calc, micac.
- 5338 - 5368 Ls, microxln to fxln, traces of mxln gy Ls. Trace pelletal Ls. Traces of Ls dark brn, dns to microxln w/ calcite xls in fract. Trace chert, brn, opaque. Some interbeds with Sh, med to dk gy and highly calc Sltst.
- 5368 - 5380 Sweep Material
- 5380 - 5390 Ls, Brn, microxln, much mottling w/ soft, gy, chalky Ls. Chert, brn, opaque.
- 5390 - 5438 Sltst grading to fg SS, gy, calc, interbedded w/ Ls, brn, microxln and Ls chalky, lt-gy. Chert, very dk, opaque. Sh interbeds in interval grading to predominantly med-gy to dark-gy Sh last 10' of interval.
- ISMAY ZONE
- 5438 - 5460 Interbedded Ls, Sltst and Sh. Ls, gy to tan, chalky to fxln. Sltst, gy calc, grading to fg SS. Sh, med-gy, calc, trace chert, amber, transluc. Trace fragmental gy Ls.
- 5460 - 5490 Ls, tan and gy, microxln to fxln, mottled w/lt-gy chalky Ls. Some pcs w/calcite xls. Much sucrosic lt-gy Ls. Chert, light-gy, transluc & milky transluc. Dolomite interbeds, lt-gy to med-gy, gran, No visible poros, no flour. Bryozoa frags repl w/calcite.
- 5490- 5505 Dolo,fg, lt to med gy, some poros - no flour. Ls, dolomitic, gy, microxln to fxln. Ls, chalky, sucrosic. Trace Ls fragmental. Chert, clear, transluc and white opaque, Sh interbeds, gy, micac, dolomitic.
- 5505 - 5536 Ls, lt-gy, sucrosic and dolomitic, some w/sd incl. Ls, fxln ptly foss. Chert, gy, opaque. Dolomite, fg, lt gy, calc in part, Lower zones of Dolomite are brown, shaly and grading to Sh, calc and dolomitic.

5536 - 5538 Sh, med to dk gy, dolomitic, micac.

#### LOWER ISMAY ZONE

5538 - 5558 Dolomite, med to dk gy and some lt-gy, fg. Sh, very calc grading to Dk brn, argill dolo. Chert, dk brn, and gy, opaque. Trace foss frags. Sltst interbeds, gy, calc. Ls at base of interval, microxln to fxln, some assoc calcite xls and some brown, frag, Ls.

5558 - 5574 Bio-clastic zone, several pcs of highly recrystallized bioclastic Ls, lge calcite and dolomite xls. No visible porosity in bioclastics, no flour or cut. Zone interspersed w/ dolo, lt gy, fxln to fg, some tan pcs. And Ls, dolomitic, sucrosic. Chert, lt-gy & brn, opaque. Bioclastics included one piece that indicated possible algal frond structure, however recrystallization made the interpretation of structure very questionable. Very slight methane indication from zone. No apparent hydrocarbon accumulation from samples or gas analyzer.

5574 - 5588 Ls, brn & gy, dns to microxln. Dolomite, tan & gy, calc, fg, sucrosic, some sd incls. Chert, lt-gy, opaque.

#### GOTHIC SHALE

5588 - 5638 Upper part of interval is interbeds Sh and dolomite. Sh is med-gy, dolo and calc. Dolo is fxln, carbonaceous, gy to brn, argill. Traces of fg SS, calc. Mid portion of interval is increasing Sh, med gy, dolo, and decreasing dolo. carbon, argill. Lower part of interval is Sh, very dk, calc & dolo w/traces fracture filled w/calcite. Tr. fusulinids.

#### DESERT CREEK

5638 5646 Sltst grading to fg SS, gy, calc.

5646 - 5655 Dolo, gy, brn, slty, fxln to sucrosic, carbon, argill in part.

5655 - 5670 Anhydrite, white to gray/white. Poorly represented in sample.

5670 - 5700 Dolo, lt gy & brn, fxln to gran. Some Dolo carbon, slty, argill grading to dolomitic shale, micac in part. Sltst grading to fg SS, dolomitic. Interbeds of Ls in lower part of interval, dark, partly foss & some fxln, brn

## LOWER DESERT CREEK

5700 - 5732

Ls, white-lt gy, very chalky, clayey in part, sucrosic grading to fxln gy Ls. This thin Ls bed at the top of the interval overlies alternating dolomite and Limestone beds. Dolomite, med-gy, lt-gy and brn, fxln. Some pcs have solid dull flour, no cut. one piece cut slightly when mashed. Fair interxln poros. Also Dolo, lt-gy and lt tan, sucrosic, calc, (Evaporitic Dolo?). Ls, lt-gy & tan, dolomitic in part, fxln in part. Chert tan & gy transluc. Ls partly recrystallized w/calcite xls. Second Ls bed underlain by Ls, chalky, sucrosic grading to very calc, sucrosic dolomite. Trace of pinpt vugs in dolomite. No cut or flour. Several pcs of BIOCLASTIC RECRYSTALLIZED LS w/pinpt vugs, lge calcite xls, no cut or flour. (Comparable to Lower Desert Creek Bioclastic zone). Recrystallized fossil shell frags. Dolomite interbeds, tan sucrosic, some dull solid flour, no cut. Chert brown & white opaque.

5732 - 5742

Ls, tan to brn & gy, microxln. Dolomite, med gy and tan fxln.

## "C" SHALE

5742 - T.D.

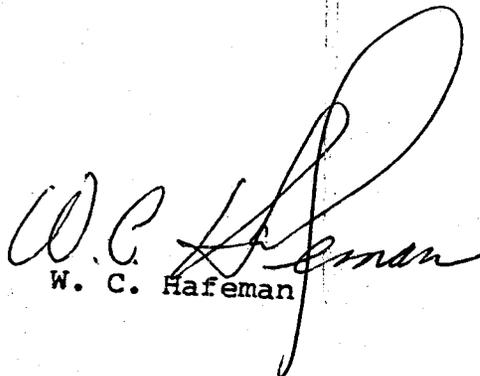
At top, Dolo, brn, argill, grading to dolomitic shale, underlain by Black, euxinic, micac shale.

REMARKS

The Schlumberger porosity logs indicate very low porosity in the Lower Ismay Zone and high water saturation in the very thin Lower Desert Creek porosity zones. The low porosity indications in both the samples and logs and lack of hydrocarbon shows in the samples negated the need for drill-stem testing.

RECOMMENDATION

Plug and Abandon.

  
W. C. Hafeman

February 11, 1982

Petrostates Resources, Inc.  
1512 Larimer St. Suite 410  
Denver, Colorado 80202

Re: Well No. Decker Ranch Federal #1  
Sec. 19, T. 39S, R. 22E  
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director  
Office: 533-5771  
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30759.

Sincerely,

DIVISION OF OIL, GAS AND MINING

  
Cleon B. Feight  
Director

CBF/as  
Encl.  
cc: USGS

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Petrostates Resources, Inc.

WELL NAME: Decker Ranch Federal #1

SECTION SESW 19 TOWNSHIP 39S RANGE 22E COUNTY San Juan

DRILLING CONTRACTOR Coleman Drilling Co.

RIG # 3

SPUDDED: DATE 2-16-82

TIME 6:30 PM

HOW Rotary

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

REPORTED BY Tom Leach

TELEPHONE # 303-825-6174

DATE 2/17/82 SIGNED DB

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Petro-States Resources, Inc.

3. ADDRESS OF OPERATOR Denver, CO 80202  
1512 Larimar Street, Suite 412

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 741' FSL and 2215' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U-17824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Decker Ranch Federal Unit

8. FARM OR LEASE NAME

9. WELL NO.  
1

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 19, T39S - R22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4611' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Move in Rotary Tools XX</u>	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

This is to confirm our verbal notification that rotary tools have been moved on to the subject location and that drilling operations have recommenced at 6:30 p.m. on February 16, 1982.

**RECEIVED**  
FEB 22 1982

**DIVISION OF  
OIL, GAS & MINING**

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE R.J. Singleton & Associates Consultant DATE 2/18/82

(This space for Federal or State office use)

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

cc: Petro-States Resources, Inc.  
Utah Division of Oil, Gas and Mining  
\*See Instructions on Reverse Side

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other Dry Hole

2. NAME OF OPERATOR  
Petrostates Resources Inc.

3. ADDRESS OF OPERATOR  
1512 Larimar, #410 Denver, CO

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
741' FSL and 2215' FWL  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input checked="" type="checkbox"/>
(other)			

5. LEASE  
U-17824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Decker Ranch Federal Unit

8. FARM OR LEASE NAME

9. WELL NO.  
#1

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 19, T39S-R22E

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

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4611'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

The subject well was abandoned as per your direction on February 28, 1982. The following plugs were placed.

Formation	Depth	Plug	No. of Sacks
Hermosa	4475'	4375-4575'	65 sx (200')
Cutler	2800'	2700-2900'	65 sx (200')
Water Sand	1000'	900-1100'	65 sx (200')
Surface Casing	400'	300-500'	125 sx (200')

In addition - 15 sx of cement were placed in the top of the surface casing. Surface restoration is partially complete at this time. Subsequent notification will be forwarded when restoration is complete.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Ray Singleton TITLE Petroleum Engineer DATE 3/5/82

R.J. Singleton & Assoc.

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

cc: Petrostates Resources Inc.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other Dry Hole

2. NAME OF OPERATOR  
Petrostates Resources Inc.

3. ADDRESS OF OPERATOR  
1512 Larimar, Suite 410 Denver, CO

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 741' FSL and 2215' FWL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U-17824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Decker Ranch Federal Unit

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#1

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12. COUNTY OR PARISH San Juan 13. STATE Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4611' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		<input type="checkbox"/>
(other)			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

This notice is to confirm our verbal request to abandon the subject well. The well will be plugged as follows:

Formation	Depth	Plug	Size
Hermosa	4475'	4375-4575	200'
Cutler	2800'	2700-2900	200'
Water Sand	1000'	900-1100'	200'
Surface Casing	400'	300-500	200'
Top of Surface Casing	15 sx		

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct  
 SIGNED Ray Singleton Jr TITLE R.J. Singleton & Assoc Petroleum Engineer DATE 3/5/82

(This space for Federal or State office use)

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

cc: Petrostates Resources Inc.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See instructions on reverse side)

Form approved,  
Budget Bureau No. 42-R355.8

14

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other P & A

2. NAME OF OPERATOR  
Petrostates Resources, Inc.

3. ADDRESS OF OPERATOR  
1512 Larimar, #410. Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)  
 At surface 741' FSL and 2215' FWL  
 At top prod. interval reported below  
 At total depth SESW

**RECEIVED**  
MAR 25 1982

14. PERMIT NO. 43-037-30759 DATE ISSUED 2-10-82  
 DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-17824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Decker Ranch Federal

8. FARM OR LEASE NAME

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 19, T39S - R22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

15. DATE SPUNDED 1/30/92 16. DATE T.D. REACHED 2/28/82 17. DATE COMPL. (Ready to prod.) P & A 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 4611' GR 19. ELEV. CASINGHEAD 4611'

20. TOTAL DEPTH, MD & TVD 5762' MD 21. PLUG, BACK T.D., MD & TVD P & A 22. IF MULTIPLE COMPL., HOW MANY\* N/A 23. INTERVALS DRILLED BY ROTARY TOOLS 0-5762' CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* P & A 25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-SFL, FDC-CNL 27. WAS WELL CORED no

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>13-3/8</u>	<u>48</u>	<u>400</u>	<u>17-1/2</u>	<u>485 sx - class "B"</u>	<u>none</u>

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION none 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

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

35. LIST OF ATTACHMENTS  
Geological Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED Ray Singleton TITLE R.J. Singleton & Assoc. - Agent DATE 3/22/82  
Petroleum Engineer

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



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

\*REPORT OF WATER ENCOUNTERED DURING DRILLING\*

Well Name & Number Decker Ranch Federal #1

Operator Petrostates Resources Address 1512 Larimer St., Suite 410

Contractor Coleman Drlg. Address \_\_\_\_\_

Location SE ¼ SW ¼ Sec. 19 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.	<u>1080-1220'</u>	<u>No measured</u>	<u>Fresh</u>
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

(Continue of reverse side if necessary)

Formation Tops

Remarks

NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 15, 1982

Petrostates Resources, Inc.  
1512 Larimer Street, Ste. #410  
Denver, Colorado 80202

Re: Well No. Decker Ranch Federal  
#1  
Sec. 19, T. 39S, R. 22E.  
San Juan County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office March 22, 1982, from above referred to well, indicates the following electric logs were run: DIL-SFL, FDC-CNL. As of today's date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Clerk Typist



STATE OF UTAH  
 NATURAL RESOURCES & ENERGY  
 Oil, Gas & Mining

*P&A*

*Please see attached.*  
*Margaret Seed*  
 Scott M. Matheson, Governor  
 Temple A. Reynolds, Executive Director  
 Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 15, 1982

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Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

*Cari Furse*

Cari Furse  
 Clerk Typist

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

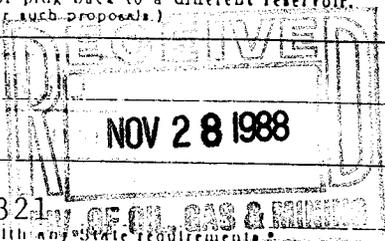
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  CAR WELL  OTHER

2. NAME OF OPERATOR  
Texaco Inc. (303) 565-8401

3. ADDRESS OF OPERATOR  
P.O. Box EE Cortez, CO. 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any specific requirements.  
See also space 17 below.)  
At surface  
741' FSL and 2215' FWL, Sec. 19



5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Decker Ranch Federal Unit

8. FARM OR LEASE NAME

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 19, T39S, R22E

12. COUNTY OR PARISH 13. STATE  
San Juan Utah

14. PERMIT NO.  
43-037-30759

16. ELEVATIONS (Show whether of, ft., ca., etc.)

10. 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 checked="" 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"/>	

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.)\*

As requested by the attached letter, Texaco Inc. has been requested to re-enter and properly plug the subject well which was drilled in 1982 by Petro States Resources Inc. Visual inspection of the location on November 18, 1988 with Mr. Dale Manchester (BLM) and Mr. Rich McClure (BLM) indicated that fresh water is leaking to surface up the 13-3/8" surface casing. Texaco will P&A the well by the following procedure:

- 1) MIRUSU - Weld on wellhead - NUBOP
- 2) Drill out surface cement plug (approx. 18" from surface)
- 3) Clean out and tag cement plug at + 300'.
- 4) Set 13-3/8" CIBP at 250'. Dump 10<sup>+</sup> sx cement.
- 5) Set surface plug from 100' to surface.
- 6) RD MOSU. Re-erect dry hole marker.
- 7) Rehab. location.

The re-entry will require reblading  $\pm$  3/4 mile of road and location. Prior to any dirtwork, the dirt contractor will inspect the area to insure that the re-entry utilizes the same location entrance.

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

SIGNED Alan A. Klever TITLE Area Manager DATE 11/22/88

(This space for Federal or State office use)

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

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

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

Federal approval of this action is required before commencing operations.

\*See Instructions on Reverse Side

DATE: 11-30-88  
BY: John R. Bay

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to furnish any information which is false, fictitious or fraudulent.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

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—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
TEXACO INC. (303) 565-8401

3. ADDRESS OF OPERATOR  
P.O. Box EE Cortez, Colorado 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
741' FSL and 2215' FWL, Sec 19 T39S R22E

5. LEASE DESIGNATION AND SERIAL NO. 14

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Decker Ranch Fed. Unit

8. FARM OR LEASE NAME

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 19 T39S R22E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

RECEIVED  
MAR 22 1989

14. PERMIT NO.  
42-037-30759

16. ELEVATIONS (Show whether DF, AT, CR, etc.)

DIVISION OF  
OIL, GAS & MINING

18. 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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

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.)

The subject well was completed as plugged and abandoned March 15, 1989. The P & A was begun March 13, 1989. The following procedure was followed:

MIRUSU. NUBOP. TIH with 12 1/4" bit and drill collar. Drill out surface plug from 1' to 7' (6'). Fell free. Clean out to 93'. Drill hard stringer from 93' to 95'. Clean out to 322'. Circulate hole clean. TOOH. TIH with 13 3/8" CIBP on 2 7/8" tubing and set plug at 292'. Spot 10 SX cement on plug. Set 90 SX class 'B' cement top plug from 104' to surface. Shut in. RDMOSU. Install P & A marker.

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

SIGNED Alan G. Klier TITLE Area Manager DATE March 17, 1989

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

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

SUBMIT IN TRIPlicate\*  
 (Other instructions on re-  
 verse side)

Form approved.  
 Budget Bureau No. 1004--135  
 Expires August 31, 1985

**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—" for such proposals.)

**RECEIVED**  
 JUN 15 1990  
 DIVISION OF  
 OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.  
 UTU 17824

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
 Decker Ranch Fed. Unit

8. FARM OR LEASE NAME

9. WELL NO.  
 #1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 19 T39S R22E

12. COUNTY OR PARISH  
 San Juan

13. STATE  
 Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR  
 TEXACO, INC. (505) 325-4397

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
 See also space 17 below.)  
 At surface  
 741' FSL and 2215' FWL, Sec. 19

14. PERMIT NO.  
 43-037-30759-0000

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4611' GR

**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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) _____		(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.)\*

The required surface reclamation requirements are now complete and the subject well site is ready for inspection. The road to the well was ripped and seeded after the well was plugged and abandoned on 15 March 1989. An inspection of the site on 10 May 1990 showed that new growth is visible on the road area and on the old well location.

OIL AND GAS	
DRN	RJF
JOB	GLH
DTS	SLS
1-DATA ✓	
2-MICROFILM ✓	
3-FILE ✓	

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

SIGNED Alan A. Klever TITLE Area Manager DATE 11 June 1990

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side