

JOHN P. LOCKRIDGE OPERATOR, INC.

July 29, 1985

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

RECEIVED

AUG 02 1985

Re: Application for Permit to Drill
John P. Lockridge Operator, Inc.
#21-4 Horseshoe Bend Federal
NE NW Section 4-T7S-R22E
Uintah County, Utah

DIVISION OF OIL
GAS & MINING

Gentlemen:

We herewith submit in triplicate an Application for Permit to Drill the #21-4 Horseshoe Bend Federal in the NE NW Section 4-T7S-R22E, Uintah County, Utah. The proposed drill-site is on USA Oil and Gas Lease U-35914. A Designation of Operator naming John P. Lockridge Operator, Inc. will be submitted to your office in the very near future.

A Cultural Resource Survey has been conducted for the access road and location and will be submitted to you under separate cover.

The N $\frac{1}{2}$ of said Section 4 is located in an area which has been spaced by the State of Utah for one gas well on each 320 acres more or less.

A communitization Agreement is being circulated for approval by working interest owners and will be submitted for BLM approval.

Our engineering supervisor, Curley Grimlie, will be available to participate in the on-site inspection at your earliest convenience.

Your consideration of the enclosed APD will be appreciated.

Yours truly,



John P. Lockridge

lv

cc: Utah Natural Resources, Division of Oil, Gas and Mining

Note: Application has been made with the State engineer for use of water from the Green River. No activity will be conducted prior to our advising your office of the number of the permit under which water will be obtained.



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

3

5. LEASE DESIGNATION AND SERIAL NO.
U-35914

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Horseshoe Bend Federal

9. WELL NO.
21-4

10. FIELD AND POOL, OR WILDCAT
Horseshoe Bend

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA
4-T7S-R22E, SLM

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

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
John P. Lockridge Operator, Inc.

3. ADDRESS OF OPERATOR
1444 Wazee, Suite 218, Denver, CO 80202 303-628-9387

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: NE NW (1819' FWL & 884' FNL) Sec 4-T7S-R22E, SLM AUG 02 1985
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
18 miles sotheast of Vernal, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
884

16. NO. OF ACRES IN LEASE
256 ac. more or less

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
No other well on lease

19. PROPOSED DEPTH
3600'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5109' Gr; 5121' KB

22. APPROX. DATE WORK WILL START*
8/15/85

RECEIVED

DIVISION OF OIL GAS & MINING

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8"	24.0#	200'	110 sacks
7 7/8"	4 1/2"	9.5#	TD	260 sacks

Proposal: To drill a test well through the Uinta formation

- Other Items:
- 1) Survey plat attached
 - 2) Ten Point drilling program attached
 - 3) Thirteen Point surface use and operation plan attached
 - 4) Cultural resource survey report to be submitted under separate cover
 - 5) Anticipated BHP is 1400 psi.
 - 6) U-35914 and U-38412 to be communitized. Communitization Agreement to be submitted to BLM for approval.

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 John P. Lockridge TITLE President DATE 7/29/85

(This space for Federal or State office use)

PERMIT NO. 43-047-31671

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

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

APPROVAL DATE 8/26/85
BY: John R. Dora

WELL SPACING: Consolid 145-8
8/22/85

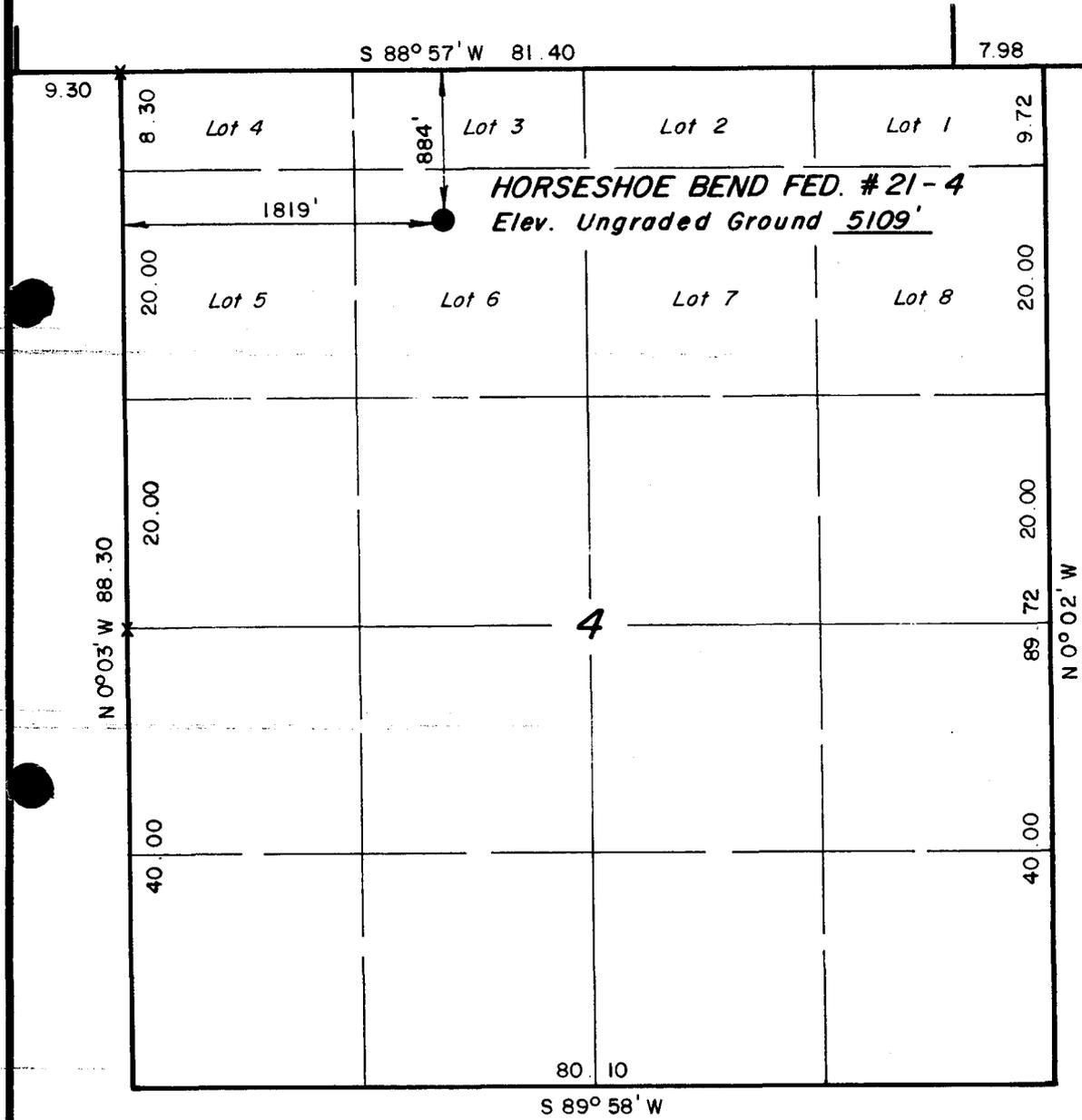
*See Instructions On Reverse Side

T7S, R22E, S.L.B.&M.

PROJECT

JOHN P. LOCKRIDGE OPERATOR, INC.

Well location, *HORSESHOE BEND FED.*
 # 21 - 4, located as shown in the NE 1/4
 NW 1/4 (Lot 6) Section 4, T7S, R 22 E,
 S.L.B.&M. Uintah County, Utah.



CERTIFICATE

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.

Nelson J. ...

REGISTERED LAND SURVEYOR
 REGISTRATION NO 2454
 STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX Q - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 7 / 25 / 85
PARTY LDT HM GL BFW	REFERENCES GLO Plat
WEATHER FAIR	FILE LOCKRIDGE

X = Section Corners Located

THIRTEEN POINT SURFACE USE PLAN

1) EXISTING ROADS

See attached topographic maps A & B. Directions: take Highway 40 south from Vernal, approximately one mile to point where Highway 40 veers east. Take "New Bonanza" highway south approximately 17.6 miles to access road on left, or west side of highway. The location is approximately 1.4 miles west of the highway and an existing road will be utilized as the access road to within a few feet of the location.

2) PLANNED ACCESS ROAD

See attached topographic map A. It will be necessary to construct approximately 100 feet of new road to connect the existing road with the proposed location. Construction of the new road will meet the following standards.

Maximum grade should not exceed 7% (7' per 100). The trail will be a maximum of an 18" crown road (9' on either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run off from any normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

No major cuts or fills appear necessary. No culverts will be needed. See Topo Map B.

The grade of this road will be constructed from native borrow accumulated during construction.

Any fences that are encountered along this access road will be cut and replaced with a cattleguard with a minimum width of 18' and a loading factor large enough to facilitate the heavy trucks required in the drilling production of this well.

If cattleguards are to be located at existing gates, they will be installed with the above requirements with a new gate installed at one end of the cattleguard.

Onsite inspection field comments:

3) LOCATION OF EXISTING WELLS

Within a one mile radius the following wells are identified by category and listed below.

1. Water wells - none
2. Abandoned wells - producing - Pan Am NE NE 5-T7S-R22E
McLish NW SW 4-T7S-R22E
Dry holes -
McLish SW SE 32-T6S-R22E
3. Temporarily abandoned wells - none
4. Disposal wells - none
5. Drilling wells - none
Locations: TXO SW SW 34-T6S-R22E
6. Producing wells - Lockridge SW NE 33-T6S-R22E
Lockridge SW SE 33-T6S-R22E
Snyder SW SW 33-T6S-R22E
7. Shut-in wells - none
8. Injection wells - none
9. Monitoring or observation wells - none

4) LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING AND SERVICE LINES

John P. Lockridge Operator, Inc. has gas wells in the E $\frac{1}{2}$ 33-T6S-R22E with production facilities present or to be installed. It is improbable these facilities will be utilized for production from the proposed well if completed because of differences in lease ownership.

In the event that production of this well is established, then the existing area of the location will be utilized for the establishment of the necessary production facilities.

This area will be built, if possible, with the native materials and if these materials are not available, then the necessary arrangements will be made to get them from private sources.

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities.

The rehabilitation of the disturbed area that is not required for the production of this well will meet the requirements of Items #7 and #10 and these requirements and standards will be adhered to.

If production facilities are necessary, these facilities will be constructed as shown in Figure 1.

4) Onsite inspection field comments:

5) LOCATION AND TYPE OF WATER SUPPLY

Water will be hauled from the Green River by truck. Application has been made for a state water permit.

The existing roads and proposed roads previously noted will be all that are needed. No water well will be drilled for this operation.

Onsite inspection field comments:

6) SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required the appropriate actions will be taken to acquire them from private sources.

7) METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

The mud pit will be approximately 6' deep and at least one half of this depth shall be below the surface of the existing ground.

A test tank will be used to contain produced fluids.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the mud pits will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the water fowl, wildlife, domestic animals.

On the onset of drilling, the mud pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the mud pit dries and the reclamation activities commence, the pit will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

Trash will be placed in a completely enclosed container and hauled off the location.

All flammable materials will be burned and then buried upon completion of this well.

A portable chemical toilet will be supplied for human waste.

8) ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9) WELL SITE LAYOUT

See attached Location Layout Sheet. The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area. Then the pits will be lined with a gel and any other type material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10) PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet and Item #9.) When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

As mentioned in Item #7, the mud pit will be completely fenced and wired and overhead wire and flagging installed, if there is oil in the pits, and then allowed to completely dry before covering.

Restoration activities shall begin as soon as possible after the mud pit has dried up, and will be completed without undue delay.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11) OTHER INFORMATION

The drillsite is located in an area of moderate slope (see cross section). The Surface is the Uinta formation, light brown sandy clay, with sparse sagebrush cover. There are no trees on the proposed location.

General use of the surface is grazing. The new road and location are federally owned.

An archeological report will be filed on this prospect under separate cover.

The closest water is located in the Green River.

John P. Lockridge Operator, Inc.
#21-4 Horseshoe Bend Federal
NE NW Section 4-T7S-R22E
Uintah Co., Utah

11) Onsite inspection field comments:

12) LESSEE'S OR OPERATOR'S REPRESENTATIVE

John P. Lockridge
1444 Wazee, Suite 218
Denver, Co 80204

Telephone - 303-628-9371

13) CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route. That I am familiar with the conditions which 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 John P. Lockridge Operator, Inc., and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.



John P. Lockridge, President

VERNAL

JOHN P. LOCKRIDGE OPER., INC.
HORSESHOE BEND FED. #21-4

PROPOSED LOCATION

TOPO.

MAP "A"

SCALE 1" = 4 MI.

17.6 Mi.

1.4 Mi.

PROPOSED LOCATION

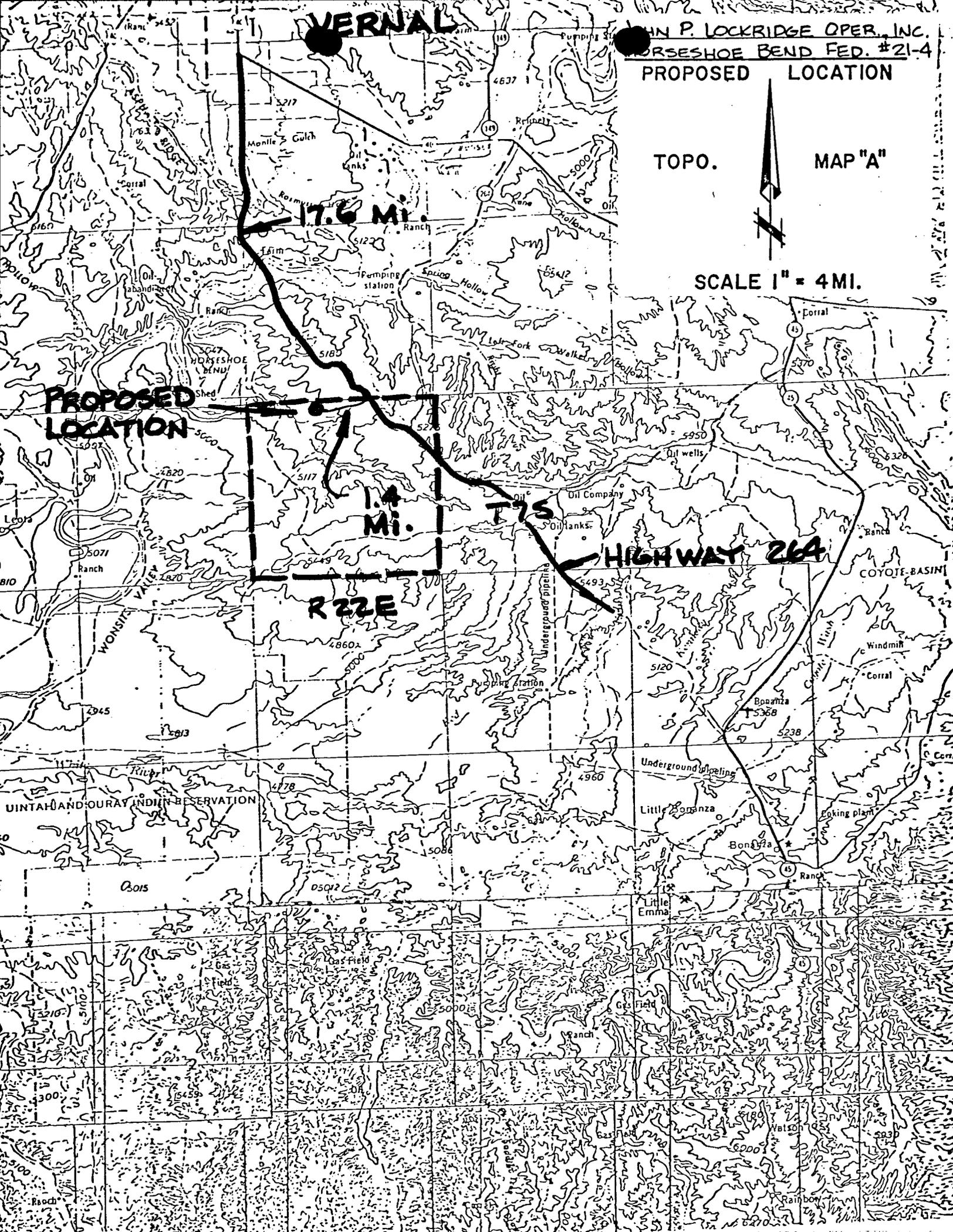
R 22E

T 7S

HIGHWAY 264

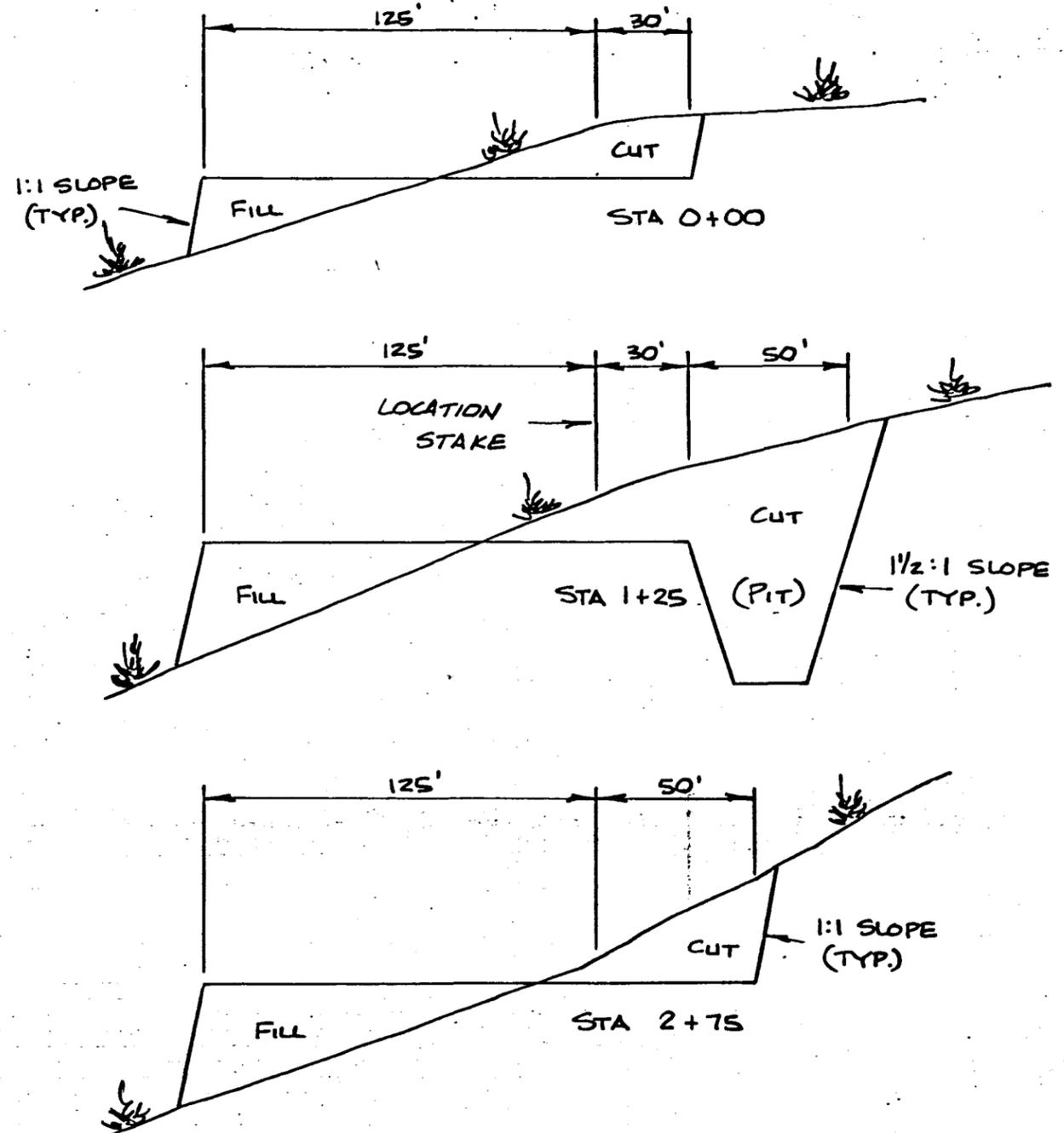
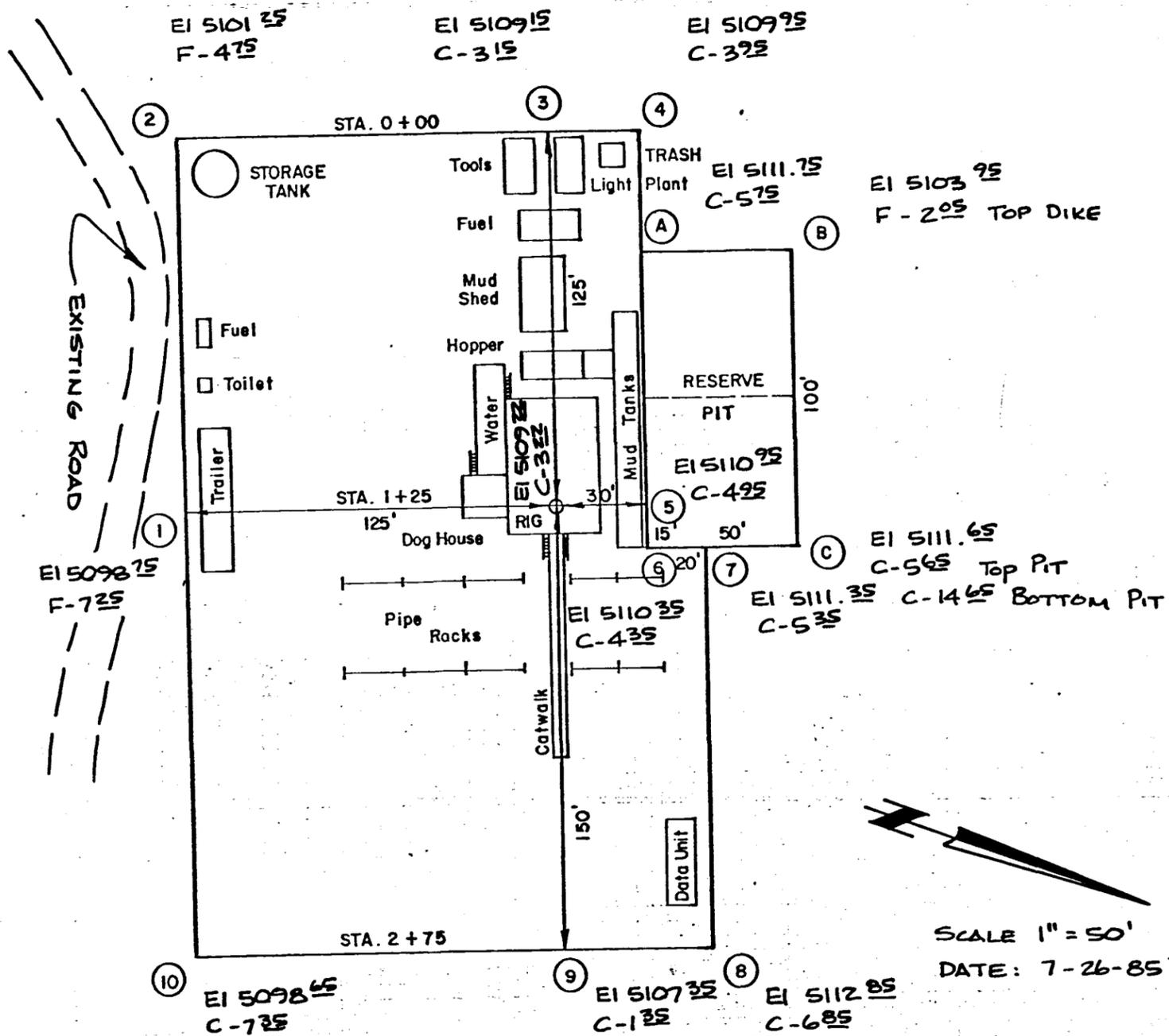
UINTAH AND OURAY INDIAN RESERVATION

COYOTE BASIN



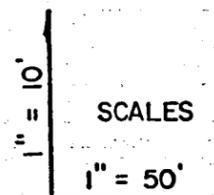
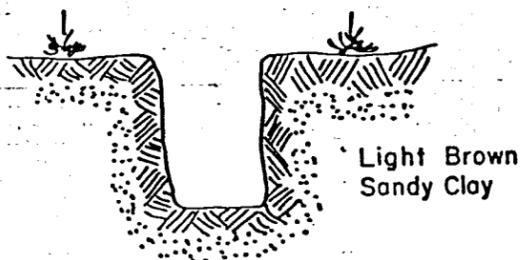
JOHN P. LOCKRIDGE OPERATOR, INC.

HORSESHOE BEND FED. # 21-4



SOILS LITHOLOGY

- no scale -



APPROXIMATE YARDAGES

Cu. Yds. Cut 4,592
 Cu. Yds. Fill 3,692

JOHN P. LOCKRIDGE OPER., INC.
HORSESHOE BEND FED. #21-4
PROPOSED LOCATION

TOPO. MAP "B"



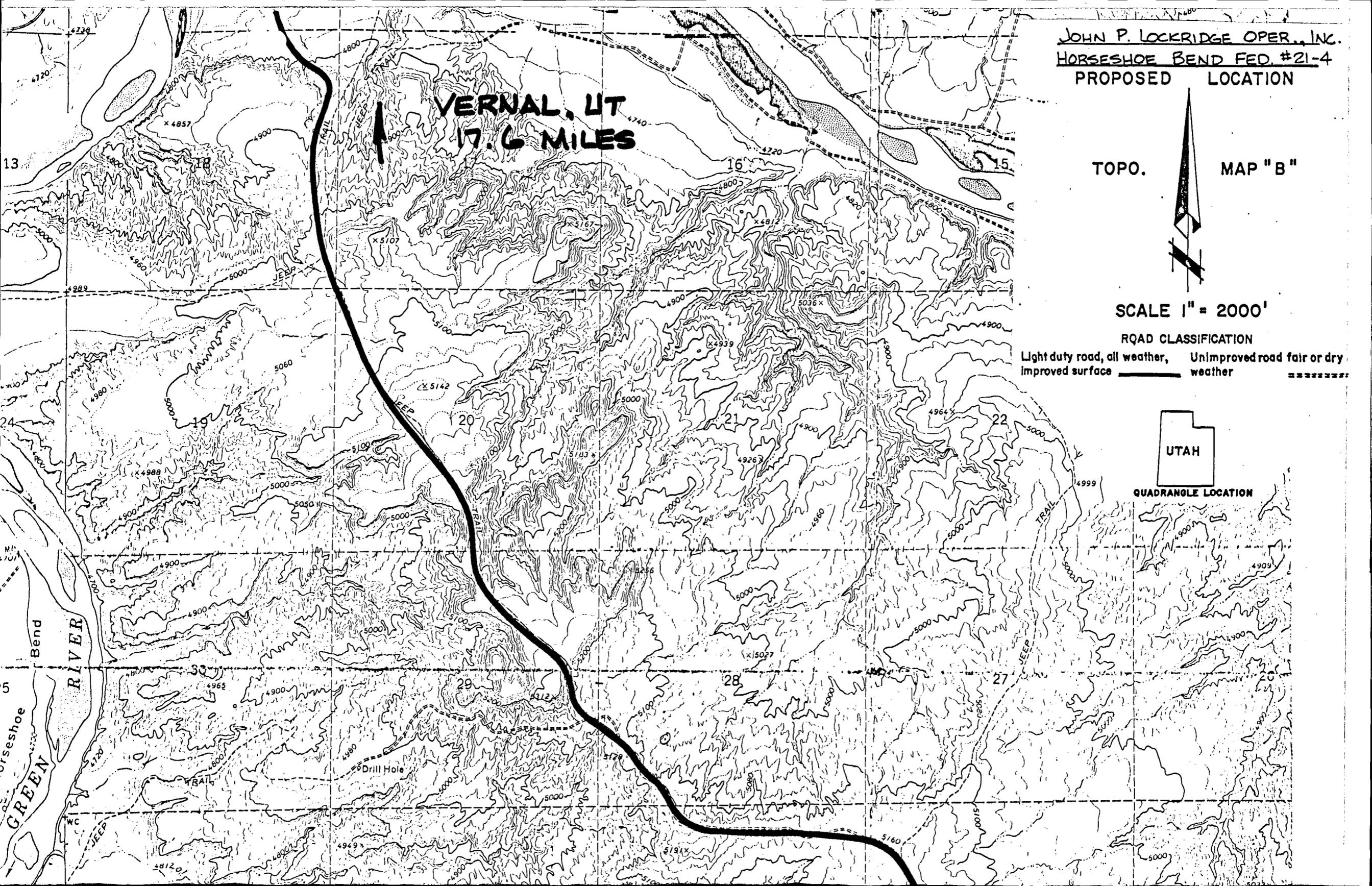
SCALE 1" = 2000'

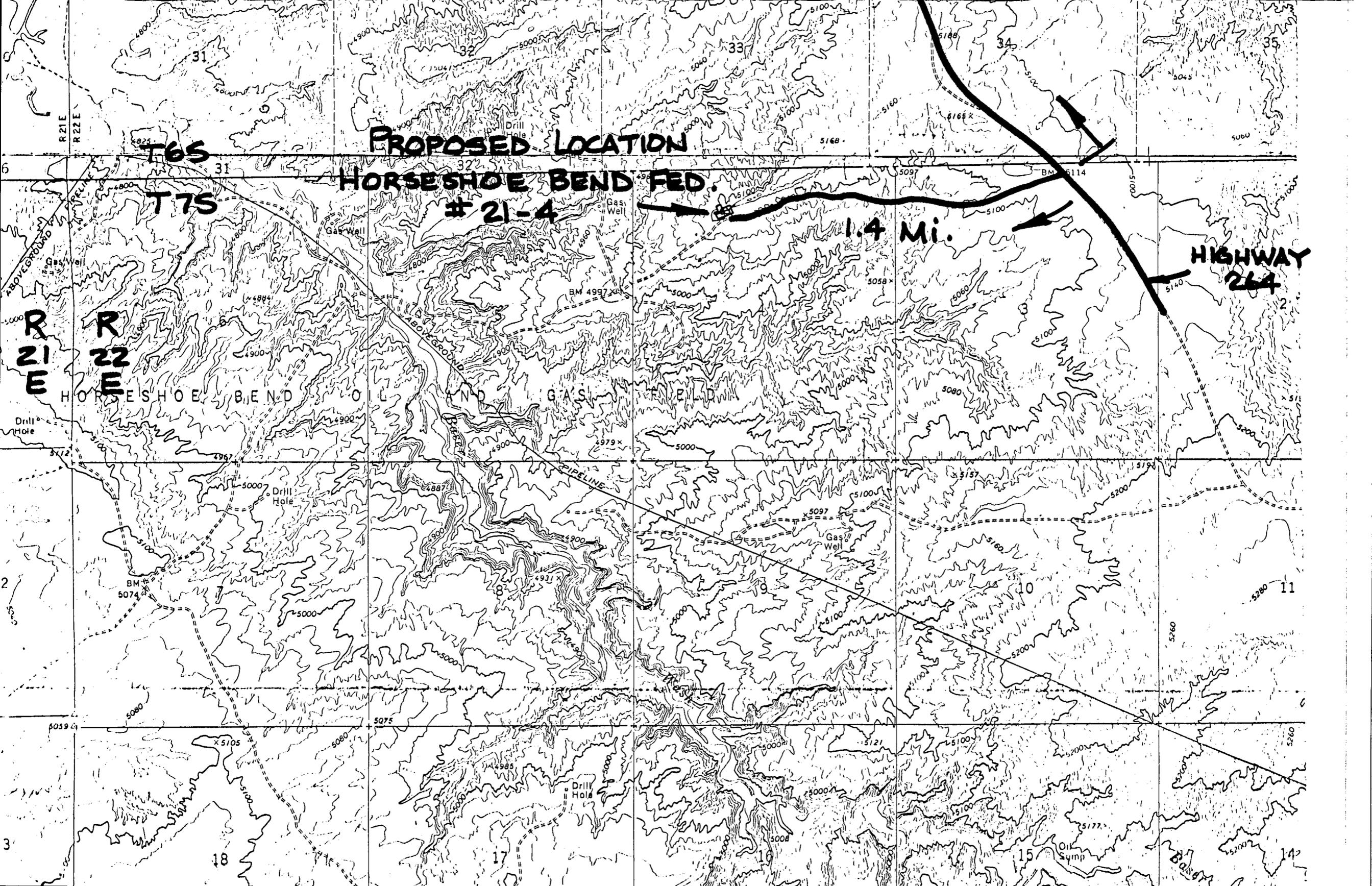
RQAD CLASSIFICATION

Light duty road, all weather, Improved surface Unimproved road fair or dry weather



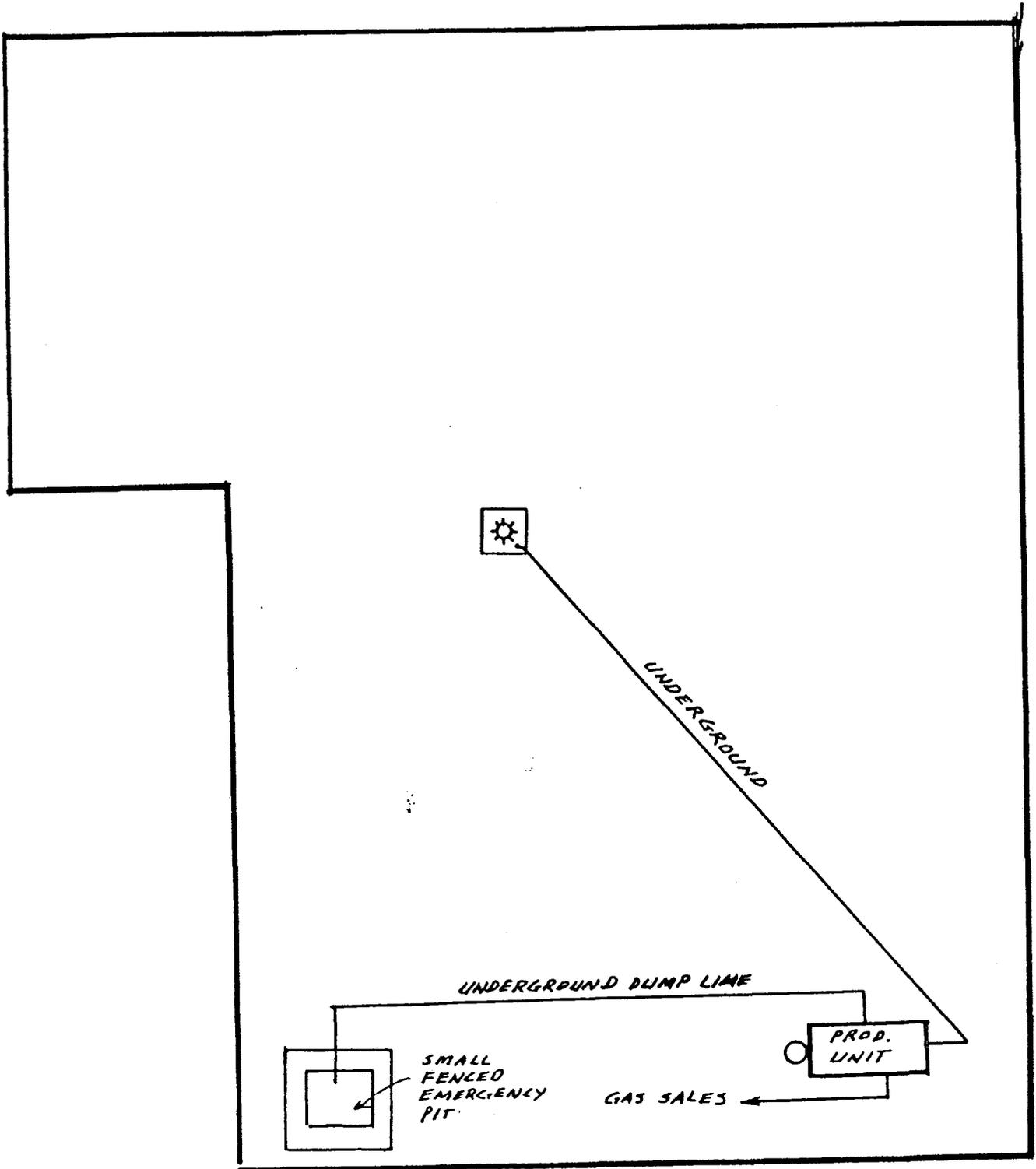
VERNAL, UT
17.6 MILES





John P. Lockridge Operator, Inc.
#21-4 Horseshoe Bend Federal
NE NW Section 4-T7S-R22E
Uintah Co., Utah

Figure 1.
Production Facilities



TEN POINT PROGRAM

1) GEOLOGIC SURFACE FORMATION

The surface formation is Uinta.

2 & 3) GEOLOGIC MARKERS AND PRODUCTIVE INTERVALS

<u>Formation</u>	<u>Estimated Top</u>	<u>Possible Production</u>
Uinta "B" Marker	3070'	H
Uinta Green River Transition	3450'	H
Green River	3600'	H
T. D.	3600'	

W = Water H = Hydrocarbon (oil or gas) C = Coal S = Steam

4) CASING PROGRAM

<u>Hole Size</u>	<u>Casing Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Thrd & Cond</u>	<u>Depth</u>
12 1/4	8 5/8"	H-40	24.0	STC	200'
6 3/4	4 1/2"	J-55	9.5	STC	TD

5) CONTROL EQUIPMENT SPECIFICATIONS

The following equipment will be utilized for detection and control during the drilling operation.

BLOW OUT PREVENTORS

Size 7 1/16" Pressure Rating 3000 psi

Pipe Rams yes Blind Rams yes

Annular Preventor yes

Kill Line Size 2" x 3000 psi Valves 2" x 3000 psi

Check Valve 2" x 3000 psi

Manifold

Size 3" Valves 3" x 3000 Pressure 3000 psi

Positive choke yes Adjustable Choke yes

See Exhibit I attached for additional detail. BOP Equipment will be installed prior to drilling below 8 5/8" casing and BOP will be tested to 1500 psi using rig pump. Surface casing will be tested to 70% of internal yield.

6) DRILLING FLUIDS

<u>Interval</u>	<u>Type Fluid</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Remarks</u>
0-200'	Air				
200-2200'	KCL Water	8.4 - 8.6	No Control	No Control	
2200'-TD	KCL Gel Mud	8.6 - 9.0	45 - 55	10 cc	

Possible Sub Normal Pressured Zones Green River

Possible Abnormal Pressured Zones None

7) AUXILIARY EQUIPMENT

Upper Kelly Cock no

Lower Kelly Cock no

Floor Valve DP yes

Floor Valve DC yes

Float in DC yes

Inside BOP (Dart Valve) no

ADDITIONAL DETECTION EQUIPMENT & SERVICE

Mud Logging Unit yes

Pit Volume Totalizer no

Flow Line Sensor no

Flow Line Temperature no

Sour Gas Detector no

Pump Stroke Counter no

Degasser _____ no _____
Mud Gas Separator _____ no _____
Drilling Data Unit _____ no _____
Other The mud system will be visually monitored

8) EVALUATION

A) Testing

All significant hydrocarbon shows will be drill stem tested. There will probably be 2 to 4 DST's.

B) Logging

<u>Depth</u>	<u>Electric Wireline Logs</u>	<u>Interval</u>
Total Depth	DIL/GR, FDC/CNL	200'-TD

C) Coring

<u>Formation</u>	<u>Type Core</u>	<u>Analysis</u>
none		

9) DRILLING HAZARDS

No extraordinary hazards are anticipated.

10) STARTING DATE 8-15-85 DURATION 8 DAYS.

DRILLING PROGRAM PREPARED BY: JOHN P. LOCKRIDGE

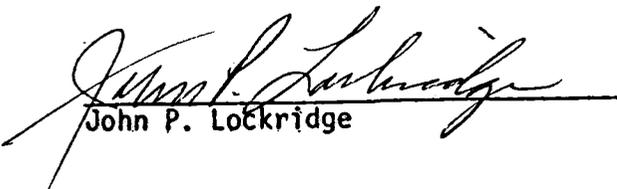
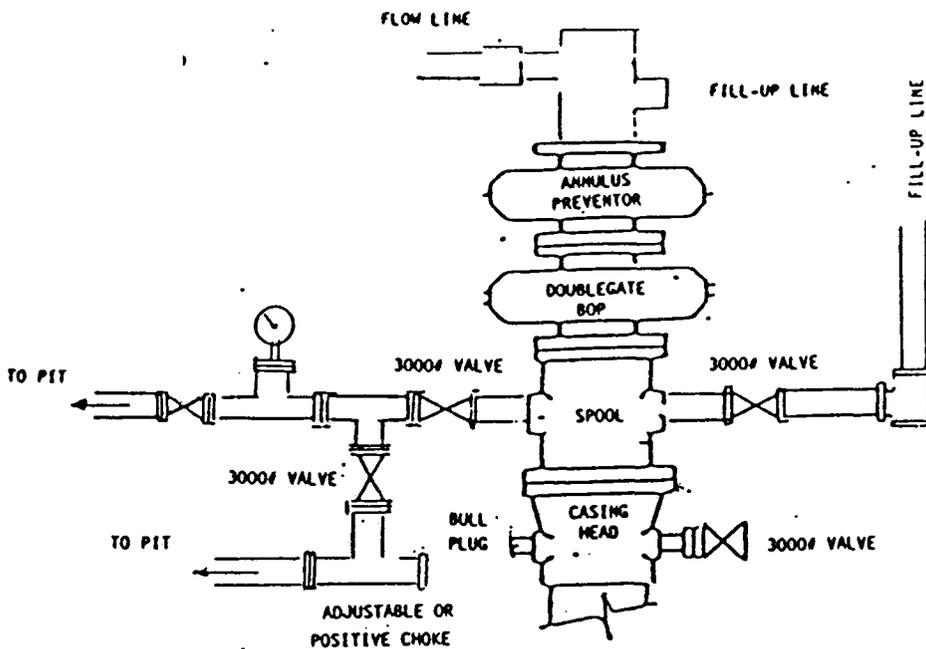

John P. Lockridge

EXHIBIT 1

Sketch of Blowout Preventor
3000 psi System



ote: Pipe rams to be operated daily. Blind rams to be operated each trip.

Test Procedure

- 1) Flush BOP's and all lines to be tested with water.
- 2) Run test plug on test joint and seat in casing head (leave valve below test plug open to check for leak).
- 3) Test as following to rated pressure:
 - a) inside blowout preventer
 - b) stand pipe valve
 - c) lines to mud pump
 - d) kill line to BOP's
- 4) Close and test pipe rams to rated pressure.
- 5) Close and test Hydril to rated pressure.
- 6) Back off and leave test plug in place. Close and test blind rams to rated pressure.
- 7) Test all choke manifold valves to rated pressure..
- 8) Test kill line valves to rated pressure.

OPERATOR John P. Rockridge DATE 8/5/85

WELL NAME Horseshoe Bend Fed. 21-4

SEC NE NW 4 T 75 R 22E COUNTY Montal

43-047-3167
API NUMBER

Fed
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other wells in 1/4 section.
Need water permit.

APPROVAL LETTER:

SPACING: A-3 _____ UNIT

C-3-a Case 145-8 8/22/85
CAUSE NO. & DATE

C-3-b

C-3-c

STIPULATIONS:

1- Water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 26, 1985

John P. Lockridge Operator, Inc.
1444 Wazee, Suite 218
Denver, Colorado 80202

Gentlemen:

Re: Well No. Horseshoe Bend Federal #21-4 - NE NW Sec. 4, T. 7S, R. 22E
884' FNL, 1819' FWL - Uintah County, Utah

Approval to drill the above-referenced gas well is hereby granted in accordance with the Order of Cause No. 145-8 dated August 22, 1985 subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

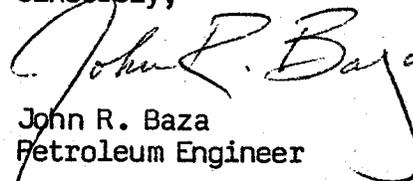
In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. 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.
4. 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.

Page 2
John P. Lockridge Operator, Inc.
Well No. Horseshoe Bend Federal #21-4
August 26, 1985

The API number assigned to this well is 43-047-31671.

Sincerely,



John R. Baza
Petroleum Engineer

jbl
Enclosures
cc: Branch of Fluid Minerals

CONFIDENTIAL

RECEIVED

SEP 17 1985

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

DIVISION OF OIL
GAS & MINING

Company John P. Lockridge Operator, Inc. Well No. 21-4

Location Sec. 4 T7S R22E Lease No. U-35914

Onsite Inspection Date 08-09-85

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

The cementing program for the surface casing shall provide sufficient quantity to bring cement to surface. The cementing program for the production string shall provide coverage of any hydrocarbon or fresh water zone encountered while drilling.

2. Pressure Control Equipment

Ram-type preventers shall be tested to 2,000 psi.

BOP and choke manifold systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

The District Office should be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

6. Other Conditions for Drilling Program

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status.

Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

Daily drilling and completion reports shall be submitted to this office on a weekly basis.

Either an upper or lower kelly cock will be employed.

B. THIRTEEN POINT SURFACE USE PLAN

7. Location of Tank Batteries and Production Facilities

All permanent (on site for six months or longer) structures constructed or installed (including oil well pumpjacks) will be painted a flat, non-reflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5 State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain $1\frac{1}{2}$ times the storage capacity of the battery.

No tank battery is anticipated for this well.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and anchored securely downstream of the meter. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

8. Source of Construction Material

The use materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

9. Methods of Handling Waste Disposal

The reserve pit will not be lined.

Burning will not be allowed.

Produced waste water will be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order.

10. Well Site Layout

The reserve pit will be located as indicated. The location was moved two feet east to be 501 feet from the nearest lease line 1,821' FWL and 884' FNL as indicated on APD.

The stockpiled topsoil will be stored between stakes No. 2 and 3 on the west side of the pad.

Access to the well pad will be from corner No. 10.

Reserve pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire.

11. Plans for Restoration of Surface

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed.

The BLM will be consulted for a suitable seed mixture for the reseeding of the location.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

12. Other Information

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A suitable cultural resource clearance has been received for the project. If any cultural resources are found during construction, all work will stop and the AO will be notified.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

In the event after-hour approvals are necessary, please contact one of the following individuals:

Craig M. Hansen (801) 247-2318
Assistant District Manager
for Minerals

Gerald E. Kenczka (801) 781-1190
Petroleum Engineer

R. Allen McKee (801) 781-1368
Petroleum Engineer

DIVISION OF OIL, GAS AND MINING

SPODDING INFORMATION

API #43-047-31671

NAME OF COMPANY: JOHN P. LOCKRIDGE

WELL NAME: Horseshoe Bend Federal 21-4

SECTION NE NW 4 TOWNSHIP 7S RANGE 22E COUNTY Uintah

DRILLING CONTRACTOR Leon Ross

RIG # _____

SPODDED: DATE 9-27-85

TIME 9:00 AM

HOW Rat Hole

DRILLING WILL COMMENCE Approx. 10-2-85 - Olsen - Rig #5

REPORTED BY John Lockridge

TELEPHONE # 789-4200

DATE 9-27-85 SIGNED _____ AS _____

JOHN P. LOCKRIDGE OPERATOR, INC.

September 30, 1985

RECEIVED

OCT 02 1985

COPY

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

DIVISION OF OIL
GAS & MINING

Re: Sundry Notice
Report of Spud
#21-4 Horseshoe Bend Federal
NE NW Section 14-T7S-R22E
Uintah County, Utah

Gentlemen:

Enclosed please find a Sundry Notice, in triplicate, advising you of the spudding of the #21-4 Horseshoe Bend Federal Well.

Your prompt consideration and approval of this Sundry Notice will be appreciated.

Yours truly,


Sally Lillard

/s/

cc: State of Utah
Division of Oil Gas and Mining
Curley Grimlie



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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

3

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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-35914</p>																				
<p>2. NAME OF OPERATOR John P. Lockridge Operator, Inc.</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME COAL</p>																				
<p>3. ADDRESS OF OPERATOR 1444 Wazee Street, Suite 218, Denver, Colorado 80202</p>		<p>7. UNIT AGREEMENT NAME -----</p>																				
<p>4. LOCATION OF WELL (Report location clearly and in accordance with State requirements. See also space 17 below.) At surface NE NW Section 14-T7S-R22E</p>		<p>8. FARM OR LEASE NAME Horseshoe Bend Federal</p>																				
<p>14. PERMIT NO. 43-047-31671</p>		<p>9. WELL NO. #21-4</p>																				
<p>15. ELEVATIONS (Show whether on, or above, or below ground) 5109' Gr., 5121' Kg</p>		<p>10. FIELD AND POOL, OR WILDCAT</p>																				
<p>16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</p> <table border="0" style="width:100%;"> <tr> <td style="width:50%; vertical-align: top;"> <p>NOTICE OF INTENTION TO:</p> <table border="0"> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table> </td> <td style="width:50%; vertical-align: top;"> <p>SUBSEQUENT REPORT OF:</p> <table border="0"> <tr> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>(Other) Spud <input type="checkbox"/></td> <td></td> </tr> </table> <p align="center"><small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small></p> </td> </tr> </table>		<p>NOTICE OF INTENTION TO:</p> <table border="0"> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> </table>	TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		<p>SUBSEQUENT REPORT OF:</p> <table border="0"> <tr> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>(Other) Spud <input type="checkbox"/></td> <td></td> </tr> </table> <p align="center"><small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small></p>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	(Other) Spud <input type="checkbox"/>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 4-T7S-R22E</p>
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<p>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.)*</p>		<p>12. COUNTY OR PARISH Uintah</p>																				
<p>18. I hereby certify that the foregoing is true and correct</p>		<p>13. STATE Utah</p>																				

RECEIVED
OCT 02 1985

DIVISION OF OIL
GAS & MINING

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

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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.)*

Drilling of the subject well was commenced at 9:00 AM, 9/27/85. Drilled 12 1/4" hole to 237' with spudder rig. Ran 5 joints, 8 5/8", 24# (216') new casing. Cemented with 120 sacks, Class A cement with 3% CaCl. Circulated 5 sacks to pit. Plug down at 2:30 pm. Cemented by Halliburton.

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

SIGNED John P. Lockridge TITLE President DATE 9/30/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

JOHN P. LOCKRIDGE OPERATOR, INC.

RECEIVED

November 11, 1985

NOV 13 1985

Bureau of Land Management
170 South 500 East
Vernal, Utah 84078

DIVISION OF OIL
GAS & MINING

Re: Plugging and Abandonment
#21-4 Horseshoe Bend Federal
NE NW Section 4-T7S-R22E
Uintah County, Utah

Gentlemen:

Enclosed please find the following documents pertaining to the
#21-4 Horseshoe Bend Federal:

- 1) Sundry Notice (P & A) (in triplicate)
- 2) Completion Report (in duplicate)
- 3) Well History

Your prompt consideration and approval or acceptance of these
reports will be appreciated.

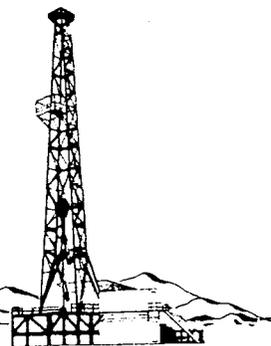
Yours truly,


Sally Lillard

/s/

enclosure

cc: State of Utah
Division of Oil, Gas and Mining
Prima Energy Corporation
Wm. M. Berryman
Mercer Group
David H. Suek
High Plains Oil Corporation
Snyder Oil Company
Cotton Petroleum
Alta Energy Corporation



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved by
Budget Bureau No. 1004-0137
Expires August 31, 1985

3

WELL COMPLETION OR RECOMPLETION REPORT

RECEIVED

NOV 13 1985

DIVISION OF OIL
GAS & MINING

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 _____

2. NAME OF OPERATOR
John P. Lockridge Operator, Inc.

3. ADDRESS OF OPERATOR
1444 Wazee Street, Suite 218, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface NE NW Section 4-T7S-R22E 1819 FWL 884 FNL
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-047-31671 DATE ISSUED 9/12/85

5. LEASE DESIGNATION AND SERIAL NO. U-35914
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Horseshoe Bend Federal
9. WELL NO. #21-4
10. FIELD AND POOL, OR WILDCAT Horseshoe Bend
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 4-T7S-R22E

12. COUNTY OR PARISH Uintah 13. STATE Utah

15. DATE SPUNDED 9/27/85 16. DATE T.D. REACHED 10/1/85 17. DATE COMPL. (Ready to prod.) 11/2/85 18. ELEVATIONS (DF, RKB, RT, GB, ETC.)* 5109' Gr., 5121' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 3600' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY A11 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 Ran DIL/SFL with Sonic, CNFDC with GR and RFT ACB 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
8 5/8"	24#	228' KB	12 1/4"	120 sacks Class A	
4 1/2"	10.5#	3527.88'	7 7/8"	300 sacks, 50/50 poz mix	

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)
3281-84, 3274-78, 3 1/8" casing gun, 2 shots per foot.
3058-63, 3082-89 same as above
3178-82 same as above
2978-82 same as above

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3181-84, 3274-78	1500 gals, 7 1/2% acid
3058-63, 3082-89	1500 gals, 7 1/2% acid
2978-82'	750 gals, 7 1/2% acid

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

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
Well History. Logs submitted directly by Schlumberger.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED John P. Lockridge TITLE President DATE 11/8/85

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Uinta "B"	2960	3340	Several sands with small gas shows but wet or tight based on completion tests. No cores or drill stem tests.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Uinta "B" Marker	2960	
Green River Transition Zone	3340	

DAILY REPORT

RECEIVED

NOV 13 1985

Lockridge et al #21-4 Horseshoe Bend Federal

Location: NE NW Section 4-T7S-R22E
 Uintah County, Utah

Elevation: 5109' Gr., 5121' KB

Contractor: Olson Drilling Rig #5

DIVISION OF OIL
 GAS & MINING

Report Date	Activity																																																																																																												
9/28/85	Move in, rig up Leon Ross Drilling Rig #3. Drill 12½" hole to 237'. Spud at 9:00 AM, 9/27/85. Ran 5 joints, 8 5/8", 24#, 8 rd, ST&C, J55 casing. (216'). Set at 228' KB. Cemented with 120 sacks, Class A with 3% CaCl. Circulate 5 bbls to pit. Plug down at 2:30 PM. Cemented by Halliburton. Drilled mouse hole, rat hole and three sanitation holes.																																																																																																												
9/29/85	Move in, rig up Olson Drilling Rig #5. Drill out cement from 211;-227'. Drilled to 711'. Survey 1/4° at 256'. Drilling with water, wt 8.3, vis 27, pH 8.0.																																																																																																												
9/30/85	Drill to 2424' with water, wt 8.4, vis 27, pH 10.0, solids 2. Survey 3/4° at 980', 1/2° at 1514', 1½° at 2028'. Mud loggers came on at 2000'. No gas shows.																																																																																																												
10/1/85	Drilled to 3225' with fresh water gel, wt.9.0, vis 35, wl 9.2, pH 10, sol 5, sand trace, fc 1, gels 1/3, nitrates .71 ppm. Survey - 3/4° at 2486'. Gas shows: <table border="0"> <tr> <td>#1</td> <td>2546-54' = 9'</td> <td>Drilling rate</td> <td>1</td> <td>.7</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>1</td> <td>6</td> <td>2</td> </tr> <tr> <td>#2</td> <td>2959-64' = 5'</td> <td>Drilling rate</td> <td>2</td> <td>.75</td> <td>2.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>3</td> <td>18</td> <td>6</td> </tr> <tr> <td>#3</td> <td>2984-90- = 6'</td> <td>Drilling rate</td> <td>2.25</td> <td>1.25</td> <td>1.75</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>4</td> <td>23</td> <td>5</td> </tr> <tr> <td>#4</td> <td>3064-66' = 2'</td> <td>Drilling rate</td> <td>2</td> <td>.3</td> <td>2</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>4</td> <td>79</td> <td>4</td> </tr> <tr> <td>#5</td> <td>3089-93' = 4'</td> <td>Drilling rate</td> <td>2</td> <td>.5</td> <td>2.25</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>12</td> <td>44</td> <td>14</td> </tr> </table>	#1	2546-54' = 9'	Drilling rate	1	.7	1			Gas Units	1	6	2	#2	2959-64' = 5'	Drilling rate	2	.75	2.5			Gas Units	3	18	6	#3	2984-90- = 6'	Drilling rate	2.25	1.25	1.75			Gas Units	4	23	5	#4	3064-66' = 2'	Drilling rate	2	.3	2			Gas Units	4	79	4	#5	3089-93' = 4'	Drilling rate	2	.5	2.25			Gas Units	12	44	14																																																
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10/2/85	Drilled to TD at 3600'. Partial loss of returns at 3500'. Lost 50 bbls immediately, then continued to seep. Lost total of 200 bbls mud. Circulate and condition hole and mud. Drop survey. Mud loggers released at 12:00 am. Background gas 5, connection gas 6. Gas shows: <table border="0"> <tr> <td>#6</td> <td>3286-89' = 3'</td> <td>Drilling rate</td> <td>2.5</td> <td>1</td> <td>2.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>5</td> <td>15</td> <td>5</td> </tr> <tr> <td>#7</td> <td>3414-28' = 14'</td> <td>Drilling rate</td> <td>3</td> <td>1.5</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>5</td> <td>8</td> <td>5</td> </tr> <tr> <td>#8</td> <td>3440-43' = 3'</td> <td>Drilling rate</td> <td>3</td> <td>.8</td> <td>3</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>5</td> <td>15</td> <td>5</td> </tr> <tr> <td>#9</td> <td>3459-62' = 3'</td> <td>Drilling rate</td> <td>3</td> <td>2</td> <td>3.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>6</td> <td>10</td> <td>6</td> </tr> <tr> <td>#10</td> <td>3480-81' = 1'</td> <td>Drilling rate</td> <td>3</td> <td>2</td> <td>3.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>6</td> <td>8</td> <td>6</td> </tr> <tr> <td>#11</td> <td>3489-92' = 3'</td> <td>Drilling rate</td> <td>3.5</td> <td>1.5</td> <td>3.5</td> </tr> <tr> <td></td> <td></td> <td>Gas units</td> <td>6</td> <td>10</td> <td>6</td> </tr> <tr> <td>#12</td> <td>3546-58' = 12'</td> <td>Drilling rate</td> <td>3</td> <td>.8</td> <td>3.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>#13</td> <td>3567-80' = 13'</td> <td>Drilling rate</td> <td>4</td> <td>.6</td> <td>3.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td></td> <td>18</td> <td>5</td> </tr> <tr> <td>#14</td> <td>3585-89' = 4'</td> <td>Drilling rate</td> <td>3.5</td> <td>.6</td> <td>3.5</td> </tr> <tr> <td></td> <td></td> <td>Gas Units</td> <td>5</td> <td>20</td> <td>5</td> </tr> </table>	#6	3286-89' = 3'	Drilling rate	2.5	1	2.5			Gas Units	5	15	5	#7	3414-28' = 14'	Drilling rate	3	1.5	3			Gas Units	5	8	5	#8	3440-43' = 3'	Drilling rate	3	.8	3			Gas Units	5	15	5	#9	3459-62' = 3'	Drilling rate	3	2	3.5			Gas Units	6	10	6	#10	3480-81' = 1'	Drilling rate	3	2	3.5			Gas Units	6	8	6	#11	3489-92' = 3'	Drilling rate	3.5	1.5	3.5			Gas units	6	10	6	#12	3546-58' = 12'	Drilling rate	3	.8	3.5			Gas Units	5	10	5	#13	3567-80' = 13'	Drilling rate	4	.6	3.5			Gas Units		18	5	#14	3585-89' = 4'	Drilling rate	3.5	.6	3.5			Gas Units	5	20	5
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10/3/85	Trip out of hole for logs. Strap out, SLM 3598.88'. Rig up Schlumberger. Ran DIL/SFL with Sonic, CNFDC with GR and RFT. Recorded 12 shut-in pressures, recovered 2 samples. Loggers TD 3576'(due to fill in hole). Wash and ream 50' of fill from 3550'-3600'. Circulate and condition hole and mud, lost partial return, build mud volume. Lost total 100 bbls.																																																																																																												
10/4/85	Ran 84 joints, 4½", 10.5#, 8rd, ST&C, J55 casing (3527.88'). Set at 3525' KB. Equipped with guide shoe, insert float valve with fill up and 6 centralizers. Circulate casing with rig pump. Cement with 300 sacks, 50/50 poz mix with 2% gel, 18% salt, 2% CaCl and ¼# flow seal per sack. Pump 500 gallons mud flush before cementing, dispersed cement with 55.5 bbls, 3% KCL. Plug down at noon, 10/3/85. Cemented by Halliburton. Nipple down BOP. Set casing slips and head with full weight of casing. Cut off casing. Clean mud pits. Rig released at 3:00 pm, 10/3/85. <u>Final report until completion.</u>																																																																																																												

DAILY REPORT

#21-4 Horseshoe Bend Federal

Page 2

Report Date	Activity
10/20/85	Move in, rig up Western Oil Well Service Rig #18 and related equipment. Nipple up tubing head and 6", 3000# BOP. Unload and tally 114 joints of 2 3/8" tubing. Pick up 3 7/8" bit, 4 1/2" casing scraper and run in hole with 110 jts tubing. Tag plug back TD at 3485'. Circulate hole with 3% KCL water. Pressure test well, wellhead and BOPs to 3000#. OK. Pull out of hole with tubing, scraper and bit. SWI - SDFW.
10/21/85	Shut-In
10/22/85	SIWP 0. Rigged up Oil Well Perforators and perforated 3281-84 and 3274-78 with 3 1/8" casing gun, 2 jet shots per foot. Total 16 holes. Make up 4 1/2" Model 32A packer on 2 3/8" tubing. Trip in hole and set packer at 3229' with 15,000# tension. Pressure test annulus. OK. Rig up swab. IFL surface. Make 16 swab runs to packer. Recovered 20.5 bbls gas cut load and filtrate water. Gas too small to measure. Breakdown perfs with 10 bbls 3% KCL water. Breakdown pressure 2000-14000#. Injection rate 2.4 bbl/min. at 115#. ISIP 900#, 5 min 200#, 10 min. 0#. 22.5 bbls load water to recover. Swab well back. IFL surface. FFL 3229'. Made 15 swab runs, recovered 23.5 bbls gas cut load water.
10/23/85	Shut well in, shut down for night. SITP 100#. Bleed off gas pressure. Initial fluid level 500'. Made 4 swab runs to seating nipple recovering 9 bbls. gas cut water. Rig up Halliburton. Acidize 3281-84' and 3274-78' with 1500 gallons, 7.5% acid containing surfactants, emulsifier, detergent and clay stabilizer. Injection rate 4.9 bbl/min. Break down pressure 2400-2150#. Good ball action. Balled off with 18 balls on perfs. Displaced with 3% KCL water. ISIP 1100#, 5 min - 730#, 10 min. 500#, 15 min. 420#. 49 bbls load water to recover. Bleed off pressure. Made 25 swab runs recovering 59.5 bbl fluid (10.5 bbls over load). Swab from seat nipple. All fluid gas cut. Last 5 hours, made 2 runs per hour, recovering approximately 6 bbls per hour. Last sample had pH 6. Shut well in - shut down for night.
10/24/85	SITP 100#. Bleed off gas pressure. Go in hole with swab. Initial fluid level 500'. Recovered 19.5 bbls gas cut water in 9 swab runs to seating nipple. Total Fluid Recovery 79 bbls. (30 bbls over load) Fill tubing with 3% KCL water. Release packer and reverse circulate hole. Make up 4 1/2" Mountain States cast iron bridge plug. Set at 3250'. Pressure test to 3000#. Held OK. Pull out of hole with setting tool and tubing. Fill casing with 3% KCL water. Shut well in, shut down for night.
10/25/85	SIWP - 0. Rig up Oil Well Perforators and perforate 3082-89' and 3058-63' with 2 jet shots per foot with 3 1/8" casing gun. Total 26 holes. Make up 4 1/2" Model 32A packer on 2 3/8" tubing. Set packer at 3041' with 15,000 tension Pressure test packer. OK. Initial fluid level at surface. Make 6 swab runs to 2600', recovering 22 bbls gas cut fluid. Flow on 12/64" choke. FTP 30#. Estimated 12-14 MCFD. Shut well in. SITP 300#. Open well on 12/64" choke, gradually open to 20/64". FTP from 300 to 10#. Flow rate peaked and declined from 16-18 MCFD.
10/26/85	Initial fluid level 300'. Made 6 swab runs recovering 21 bbls gas cut water. Final fluid level 3000'. Rig up Halliburton. Acidize 3058-63' and 3082-89 with 1500 gallons, 7.5% acid containing non-emulsifier, surfactants, clay stabilizers, iron sequestering agent and detergent. Injection rate 5.5 bbl. per minute. Breakdown pressure 2500-2200#. Drop 50 ball sealers, good ball action. Balled off with 36 balls on perfs. Displaced with 12.5 bbls, 3% KCL water. ISIP 970#, 5 min. 300#, 10 min. 170#, 15 min. 110#. 48 bbls load water to recover. Swab 22 runs, recovering 78.5 bbls gas cut water. (30.5 bbls over load). Well started flowing and heavily gas cut water on 1" choke. 0-20# FTP. Flowed estimated 50 bbls water. Could not measure gas because of surging water. SWI-SDFN.
10/27/85	SITP 650#. Bleed off gas pressure in 15 min. Initial fluid level 900'. Made 4 swab runs recovering 15.5 bbls gas cut water. Release packer at 3041' and move down to 3072'. Set packer and swab perfs from 3082-89'. Made 6 runs recovering 20 bbls heavily gas cut water. Release packer and move to 2917. Set packer. Rig up Oil Well Perforators and run temperature survey from 2917-3250'. Temperature survey showed fluid stayed in perforated zone. 80% of fluid movement was in perforations 3082-89'. Make up Mt. States B2 retrievable bridge plug on Model 32A packer and 2 3/8" tubing. Trip in hole and set RBP at 3072 and packer at 3041'. Swab perforations 3058-63'. Initial fluid level 100'. Make 12 runs, recovering 43 bbls heavily gas cut water. SWI-SDFN.
10/28/85	SITP 60#. Well making very small amount of gas, would not flare. Shut well in for 5 hours. SITP 30#. Bleed off gas pressure, no flare. SWI-SDFN.

Report Date	Activity
10/28/85 cont.	RW Factor: 3082-89' --- .98 @ 45° 3058-63' --- .87 @ 45°
10/29/85	SITP 50#. Open well to pit. Bleed off gas pressure. Well dead in 15 min. SWI-SDFN
10/30/85	SITP 0#. Release packer, circulate hole with 3% KCL water. Release retrievable bridge plug. Rig up Oil Well Perforators and perforate 3178-82' with 3 1/8" casing gun, 2 jet shots per foot, total of 9 holes. Set 4 1/2" packer at 3137' with 15,000#. Swab test perforations 3178-82. IFL 100'. Made 5 runs, recovering 12 bbls load water. Last 2 runs dry, no fluid, no gas. Fill tubing with 12 bbls KCL water, breakdown perfs from 3178-82' with 10 bbls 3% KCL water. Breakdown pressure 2100-1000#. Injection rate 2.5 bbls/min., at 1000#. ISIP 300#, 3 min. 0#. 22 bbls load water to recover. Swab perfs 3178-82. IFL 100'. Recover 11 bbls load water in 4 runs. Swab tubing dry. No fluid entry on last 5 runs, no gas. 11 bbls load water to recover. SWI-SDFN.
0/31/85	SITP 0#. Fill tubing with 3% KCL water and release packer. Make up Mt. States 4 1/2" bridge plug on 2 3/8" tubing. Set cast iron bridge plug at 3040'. Test to 3000#. OK. Rig up Oil Well Perforators. Perforate 2978-2982', with 3 1/8" casing gun, 2 jet shots per foot, total of 9 holes. Set packer at 2949' with 15,000# tension, test, OK. Swab 2978-82'. IFL 100#. Made 6 runs, recovering 11 bbls load water, last 3 runs dry. No gas, no fluid entry. Fill tubing with 11 bbls, 3% KCL water and breakdown perfs with 6 bbls KCL water. Breakdown pressure 2500-1500#. Injection rate 2.5 bbls/min. at 1800#. ISIP 300#, 30 min 0#. 17 bbls load water to recover. Swab, IFL surface. Made 9 runs, recovered 11.5 bbls load water, last 5 runs dry. No gas, no fluid entry. 5.5 bbls load water to recover. SWI-SDFN
11/1/85	SITP 30#. Bleed off gas pressure, make 1 run, fluid level 2600', no recovery. Rig up Halliburton. Acidize 2978-82', with 750 gallons, 7.5% acid with surfactants, non-emulsifiers, detergents, clay stabilizers, iron sequestering agents. Injection rate 5 bbl/min. Breakdown pressure 2640-2500#. Run 15 ball sealers, good ball action. Pressure after 4 balls on perfs broke from 2600 to 1400#. Balled off with 11 balls. Displaced with 12 bbls, 3% KCL water. ISIP 650#, 5 min 0#. 30 bbls load water to recover. Swab 2978-82'. IFL 200'. Made 11 runs, recovering 12.75 bbls load water with slight amount of gas (acid gas). Last 3 runs dry, no fluid entry, no gas. Fill tubing with 12 bbls 3% KCL water. Release packer. Make up Mt. States 4.5" cast iron bridge plug on 2 3/8" tubing. Trip in hole to 2940', attempt to set cast iron bridge plug, would not set. Trip out of hole, cast iron bridge plug set at 1653' while tripping out. Could not find anything wrong with setting tool. Trip in hole with 40 jts 2 3/8" tubing. Pull out of hole and lay down same. Trip in hole with 2 3/8" tubing to 1650. SWI-SDFN Received plugging orders from Gerald Kenczka and Alan McKee, USGS at 4:30 pm, 10/31/85.
11/2/85	SITP - 0#. Rig up Halliburton. Set plug from 1620-1558' with 5 sacks regular, Type H cement. Set plug from 270-170' in 8 5/8"-4 1/2" annulus with 25 sacks regular, Type H cement. Set plug from 325' to surface inside 4 1/2" casing with 30 sacks regular, Type H cement. All plugs witnessed by: John Shufflebarger, USGS. Rig down Western Well Service Rig #18 and related equipment. Move rig and equipment to yard. <u>FINAL REPORT</u>

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXPIRES ON THE REVERSE SIDE
(Other instructions on reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-35914

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horseshoe Bend Federal

9. WELL NO.

#21-4

10. FIELD AND POOL, OR WILDCAT

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

Section 4-T7S-R22E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

(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 Dry Hole

NOV 13 1985

2. NAME OF OPERATOR

John P. Lockridge Operator, Inc.,

DIVISION OF OIL
GAS & MINING

3. ADDRESS OF OPERATOR

1444 Wazee Street, Suite 218, Denver, Colorado 80202

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

At surface

NE NW Section 4-T7S-R22E

14. PERMIT NO.

43-047-31671

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5109' Gr, 5121' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

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

Work done 11/1/85 as follows:

- 1) Plug from 1620-1558' with 5 sacks regular, Type H cement
- 2) Plug from 270-170' in 8 5/8" - 4 1/2" annulus with 25 sacks regular, Type H cement.
- 3) Plug from 325' to surface inside 4 1/2" casing with 30 sacks regular, Type H cement.

All plugs witnessed by John Shufflebarger.

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

DATE: 11/15/85
BY: John R. Dan

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

SIGNED

John P. Lockridge

TITLE

President

DATE

11/8/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.