UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/abd. _____

*Location Abandoned 8-10-81
**Application was resented by USGS
***LOCATION CHANGE
****Application re-enstated as of 11-3-81
* Location Abandoned - Application rescinded - 1-5-83

DATE FILED 4-25-81

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-013821-A INDIAN

DRILLING APPROVED: 4-25-78 * 11-3-81

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: *8-10-81 * LA 1-5-83

FIELD: ~~River Bend~~ 3/86 Uteland Butte

UNIT:

COUNTY: Uintah

WELL NO. River Bend Unit 5-12D API# 43-047-30413

LOCATION ~~2130'~~ FT. FROM (N) (S) LINE. 821' FT. FROM (E) (W) LINE. SW NW 1/4 — 1/4 SEC. 12

*** 2180' FNL

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
10S	18E	12	MAPCO INC.				

FILE NOTATIONS

Entered in NID File ..✓.....
Location Map Pinned ..✓.....
Card Indexed ..✓.....

Checked by Chief ✓.....
Approval Letter ....
Disapproval Letter ..

COMPLETION DATA:

Date Well Completed .....
OW..... WW..... TA.....
GW..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land ....

LOGS FILED

Driller's Log.....
Electric Logs (No.) .....
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CBLog..... CCLog..... Others.....

7-6-92 JA

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE* (Other instructions on reverse s.)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-013821-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

7. UNIT AGREEMENT NAME: River Bend #14-08-0001-16305

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: MAPCO Inc.

9. WELL NO.: RBU 5-12D

3. ADDRESS OF OPERATOR: Suite 320 Plaza West, 1537 Avenue D., Billings, Montana 59102

10. FIELD AND POOL, OR WILDCAT: River Bend

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: (1) 2130' FNL & 821 FWL SW NW Section 12
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 12 T. 10 S., R. 18 E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 17 Miles SW of Ouray, Utah

12. COUNTY OR PARISH: Uintah — 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 510'

16. NO. OF ACRES IN LEASE: 640.48

17. NO. OF ACRES ASSIGNED TO THIS WELL: 640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: None

19. PROPOSED DEPTH: (5) 8285'

20. ROTARY OR CABLE TOOLS: (4) Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): (2) 4918' Ungraded GL

22. APPROX. DATE WORK WILL START*: (14) 9-15-78 30 days

23. PROPOSED CASING AND CEMENTING PROGRAM (8) and (9)

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" -New	24	500'	Cement to surface
7-7/8"	5-1/2" -New	17	8285'	As required

Data required to be included on Form 9-331C by NTL-6, dated 6-1-76, as Items No. (1), (2), (4), (5), (8), (9) and (14) are so noted above. The rest as follows:

(3) and (6):

Uintah	Surface	Chapita Wells	5385'
Green River	1155'	Uteland Bts.	6585'
Wasatch	4655'	Mesaverde	7785'

(7): No water anticipated; possible thin, non-commercial oil bearing zones encountered in the Green River from approxiamtely 1150'-4650'±; no commercially productive oil bearing sands encountered in this area previously; gas bearing formations will be the Wasatch, expected intermediate overall interval from 4650'-7800'±, and the Mesaverde from 7785'± to a total depth of 8285'.

(10): Figure #1 (attached)

--Continued on back of page--

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 J. D. Holliman — TITLE Manager of Operations Northern District — DATE April 13, 1978

J. D. Holliman

(This space for Federal or State office use)

PERMIT NO. 43-047-30413

APPROVAL DATE APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

APPROVED BY _____ TITLE _____ DATE: 4-25-78

CONDITIONS OF APPROVAL, IF ANY:

BY: C. B. Feight

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

(11): The well is to be drilled with a salt water mud system maintaining a weight of approximately 9#/gal with weighting material on location sufficient to weight-up for pressure control as necessary.

(12): A mud logger will be used from 4000' to TD. No drill stem tests will be run. No coring will be done. The logging program will include Dual Induction and CNL-Density Logs.

(13): As noted in #(11), no abnormal pressures are anticipated nor is the area known for abnormal temperatures. The formations to be penetrated do not contain H_2S gas.

(15): Auxiliary equipment:
(a) Kelly cock
(b) Full opening valve on floor with DP connection for use when Kelly is not in string
(c) Pit volume totalizer equipment will be used.

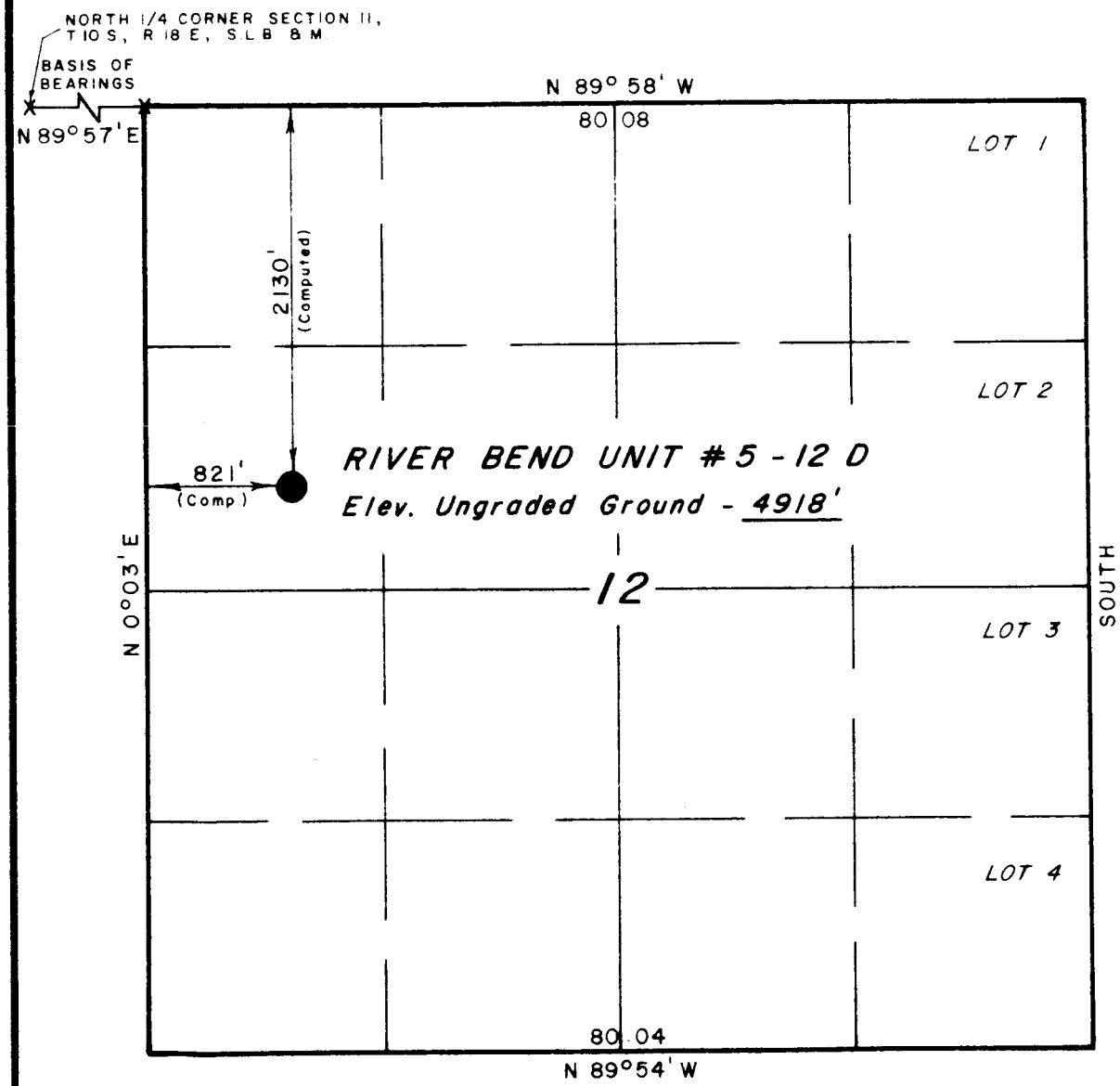
☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-782 222/208 REGION NO. 8

PROJECT

MAPCO INC.

Well location, *RIVER BEND UNIT # 5 - 12 D*, located as shown in the SW 1/4 NW 1/4 Section 12, T 10 S, R 18 E, S.L.B. & M. Uintah County, Utah.

T 10 S, R 18 E, S.L.B. & M.



X = Section Corners Located

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.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P O BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3/28/78
PARTY RK JB DJ	REFERENCES GLO Plat
WEATHER Fair	FILE MAPCO INC.

Mapco Incorporated

13 Point Surface Use Plan

for

Well Location

River Bend Unit #5-12 D

Located In

Section 12, T10S, R18E, S.L.B. & M.

Uintah County, Utah

Mpaco Incorporated
River Bend Unit #5-12 D
Section 12, T10S, R18E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach Mapco Incorporated well location River Bend Unit #5-12 D, located in the SW 1/4 NW 1/4 Section 12, T10S, R18E, S.L.B. & M., Uintah County, Utah; proceed Southwesterly out of Myton, Utah along U.S. Highway 40, 1.5 miles to the junction of this Highway and Utah State Highway 53-216, to the South; proceed Southerly along this Highway 1.5 miles more or less to the intersection of Utah State Highway 53 and Utah Highway 216; thence proceed Southeasterly along Utah State Highway 216, 17.5 miles to the junction of this road and an existing dirt oil field service road to the East; proceed Easterly along this service road 7 miles to the point at which the planned access road (to be discussed in Item #2) leaves this road and proceeds in an Easterly direction.

The Highways mentioned in the foregoing paragraph are bituminous surfaced roads up to the intersection of Utah State Highways 53 and 216, at which point Utah State Road 216 is constructed out of existing native materials that are prevalent to the existing areas it is located in and ranges from clay to a sandy-clay shale material, as are the aforementioned dirt oil field service roads and other roads in the vacinity.

There is no anticpated construction on any portion of the above described road. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase; completion phase and the production phase of this well at such time that production is established.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well, will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing service road in the SW 1/4 Section 10, T10S, R18E, S.L.B. & M. and proceeds in an Easterly direction for a distance of 3.2 miles to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

This proposed access road will be an 18' crown road (9' 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 normal meteorological conditions that are prevalent to this area.

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

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

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

PLANNED ACCESS ROAD - continued

If deemed necessary by the local governmental agencies or their representatives, turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges or at intervals and locations that will provide the greatest sight distance. These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and outlet ends.

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 and production of this well.

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

The access from the road to the gate will be of such a nature that there will be no impedance of traffic flow along the main access road and no difficulties encountered by traffic utilizing the gate, either leaving or entering the proposed access road.

The vegetation along this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses and cacti with large areas that are devoid of vegetation.

3. LOCATION OF EXISTING WELLS

There are no other Mapco Incorporated wells within a one mile radius of this location (see Topographic Map "B"). For the exact location of this well in Section 12, T10S, R18E, S.L.B. & M. see the location plat.

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

At the present time there are no other Mapco Incorporated batteries, production facilities, oil gathering lines, gas gathering lines, injection and disposal lines within a one-mile radius.

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 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.

If there is any deviation from the above, then all appropriate agencies will be notified prior to construction and all necessary requests and applications will be made.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water to be used for the drilling and production of this well will be hauled by truck from the Green River, at a point located in the SE 1/4 of Section 18, T10S, R19E,

LOCATION OF AND TYPE OF WATER SUPPLY - continued

S.L.B. & M. approximately 4.5 road miles to the Southeast from the proposed location.

In the event that the above source is not used other arrangements will be made with the proper authorities for an alternate source.

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

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 additoinal road gravels or pit lining materials 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.

The native materials that will be used in the construction of this location site and access road will consist of a sandy-clay soils and sandstone and shale materials gathered in actual construction of the road and location.

7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable materials such as cuttings, salts, chemicals, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on all four sides with a net wire, and the reserve pit will be fenced on three sides. Upon completion of drilling, the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted. 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 and road.

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 of 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. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. 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 convenants 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 Topography of the General Area - (See Topographic Map "A").

The area is a basin formed by the Book Cliff Mountains to the South and the Uinta Mountains to the North. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstones, conglomerates, and shale deposits.

The majority of the washes and streams in the area are non-perennial in nature with the only one in the area having a year round flow being the Green River to the West, of which the numerous washes, draws and non-perennial streams are tributaries.

The soils of this semi-arid area are of the Uinta Formation and Duchesne River formation (the Fluvial Sanstone and Mudstone) from the Eocene Epoch and Quaternary Epoch (gravels surfaces) and the visiable geologic structures consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates and shales).

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush some grasses, and cacti, and large areas of bare soils devoid of any growth. In the areas away from and in the vicinity of non-perennial streams, cottonwoods, willows, tamarack, sagebrush, rabbitbrush, grasses and cacti can be found.

The fauna of the area is sparse and consists predominately of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to the area.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area (See Topographic Map "B").

OTHER INFORMATION - continued

River Bend Unit #5-12 D location site sits on a relatively flat area between two small washes to the North and South of this location site.

The geologic structure of the location of the Uinta Formation and consists of light brownish-gray sandy clay (SP-CL) with some sandstone outcrops.

The ground slopes from the Northwest through the location to the Southeast at approximately a 6% grade.

The location is covered with some sagebrush and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B".)

12. LESSEE'S OPERATOR'S REPRESENTATIVE

Darwin Kulland
Mapco Incorporated
P.O. Box 1360
Roosevelt, Utah 84066

TELE: 1-801-722-4521

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 Mapco Incorporated and its contractors and sub-contractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

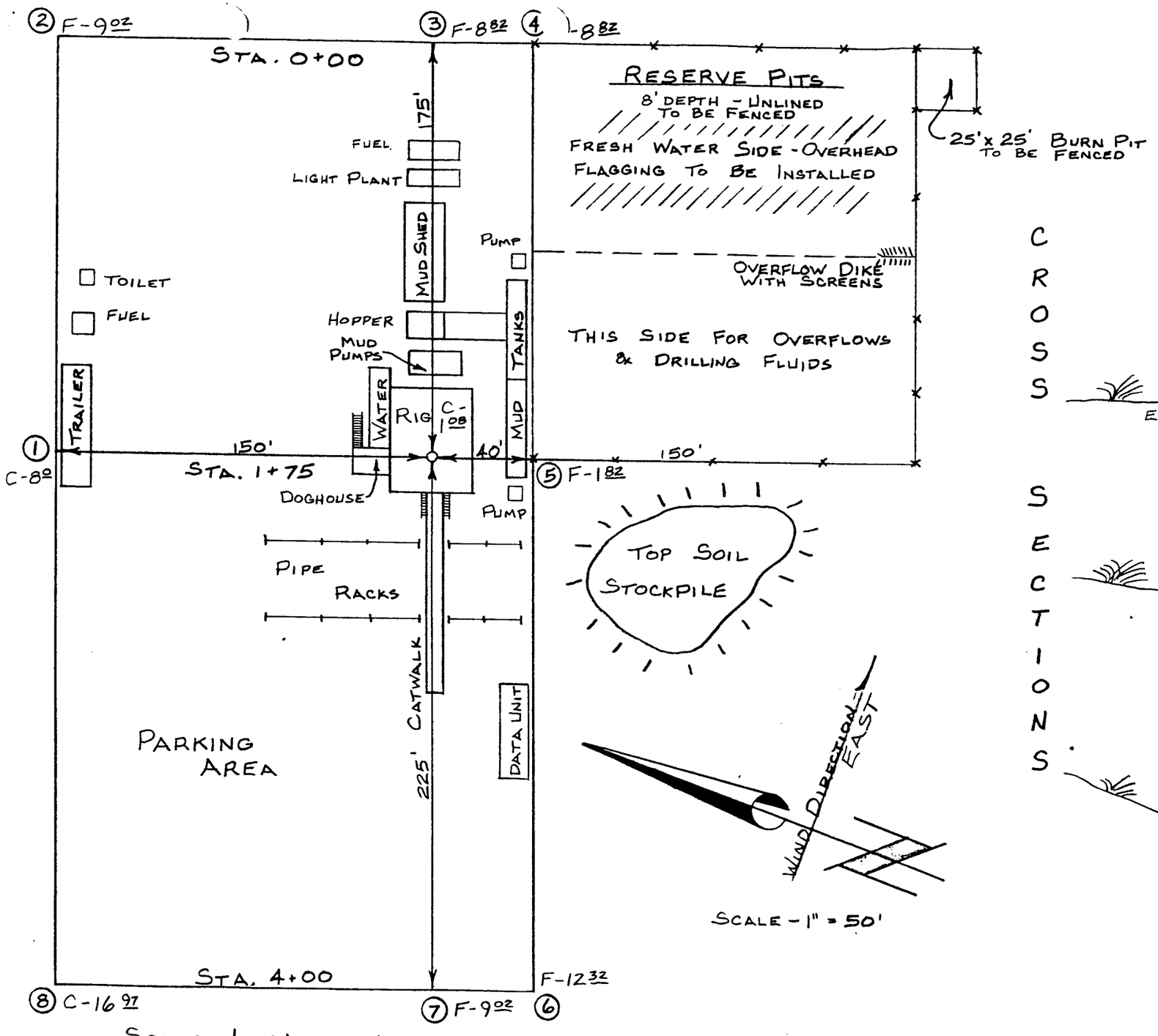
April 17, 1978
Date

/s/ Darwin Kulland
Darwin Kulland
Drilling and Production Superintendant

MAPCO INC.

RIVER BEND UNIT #5-12 D

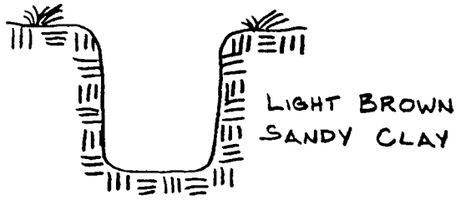
CUT SHEET



SCALE - 1" = 50'

SOILS LITHOLOGY

-No Scale-

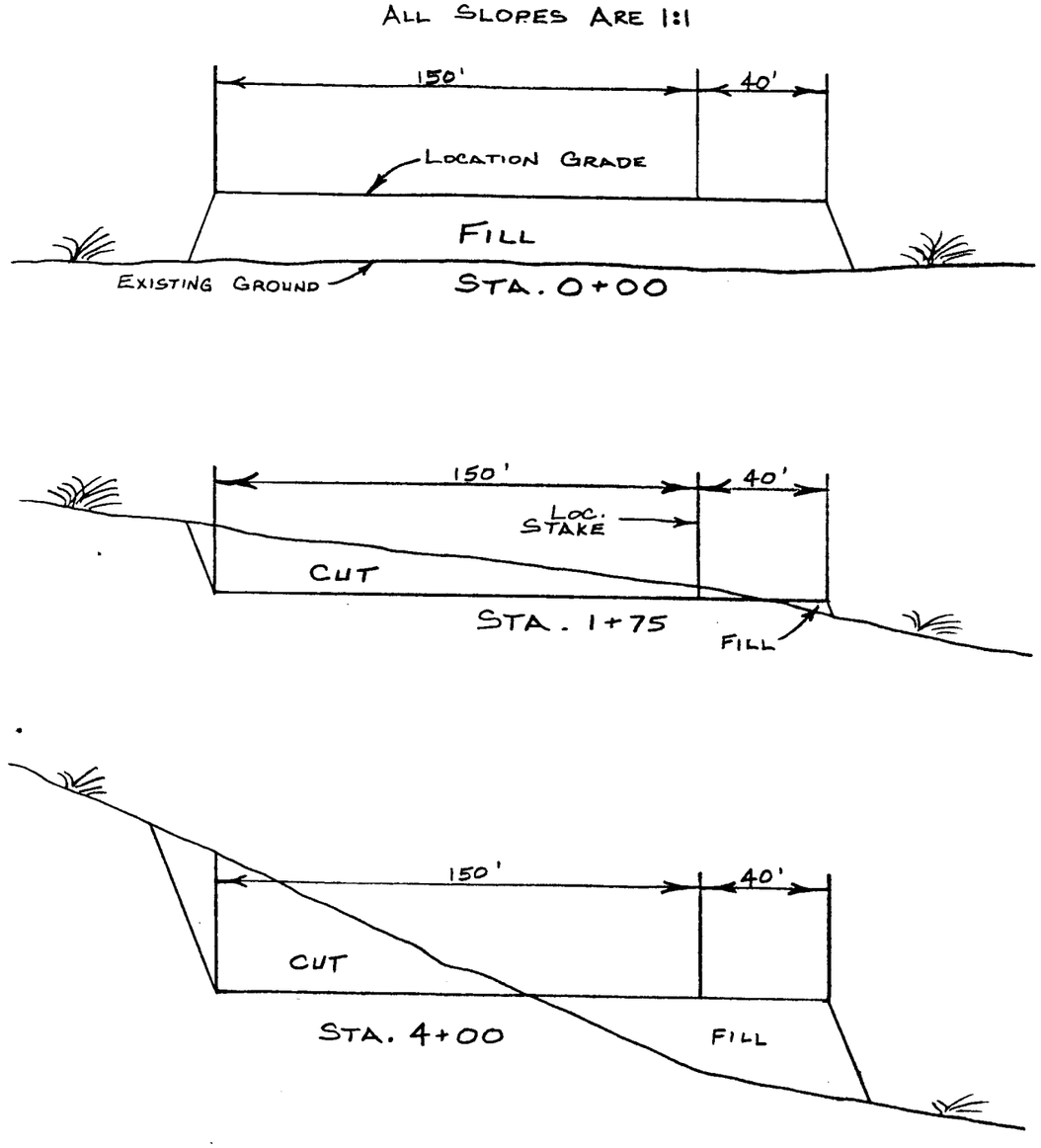


APPROX. YARDAGES

CUT - 9,541 CU. YDS.
FILL - 8,962 CU. YDS.

ALL SLOPES ARE 1:1

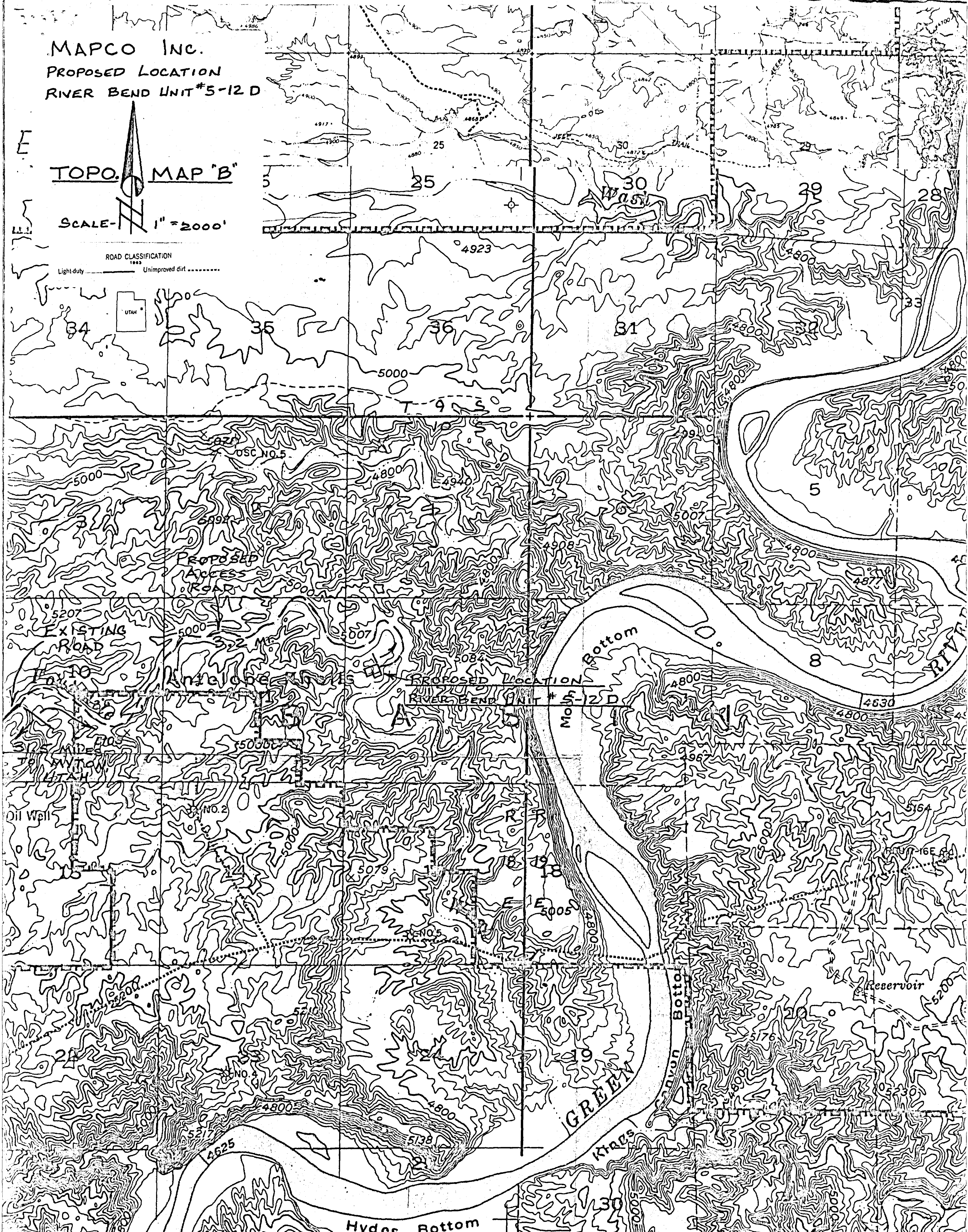
CROSS SECTIONS.



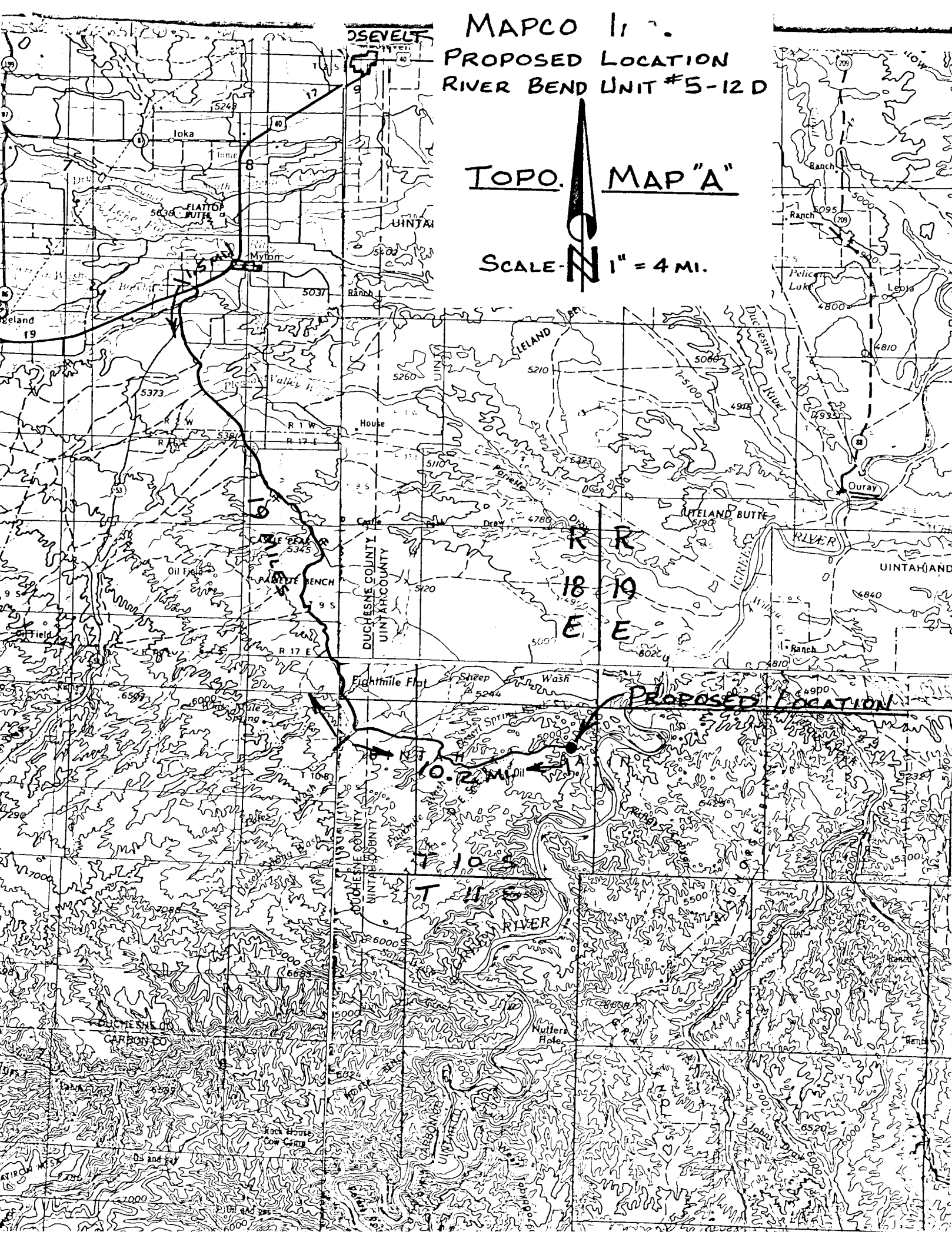
1" = 20'

SCALES

1" = 50'



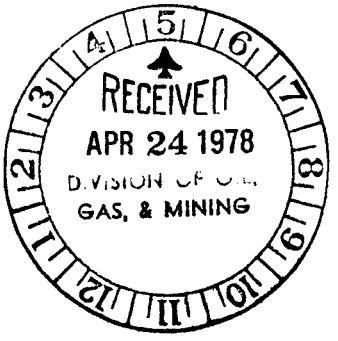
MAPCO INC.
PROPOSED LOCATION
RIVER BEND UNIT #5-12 D
TOPO. MAP "B"
SCALE- 1" = 2000'
ROAD CLASSIFICATION
Light-duty
Unimproved dirt
UTAH
PROPOSED ACCESS ROAD
EXISTING ROAD
3.2 MI.
31.5 MILES TO MYTON, UTAH
PROPOSED LOCATION RIVER BEND UNIT # 5-12 D
Antelope
Oil Well
OSC NO.5
T 9 S
T 10 S
R 18 E
R 19 E
Wash
JEEP TRAIL
Bottom
GREEN
RIVER
Canyon Bottom
Hydes Bottom
Reservoir


MAPCO Inc.
PROPOSED LOCATION
RIVER BEND UNIT #5-12 D
TOPO. MAP "A"
SCALE- 1" = 4 MI.
PROPOSED LOCATION
10.2 MI.
R 18 E
R 19 E
T 10 S
T 11 S
DUCHESNE COUNTY
UINTAH COUNTY
CARBON CO
Myton
Ioka
Ouray
Leola
Pelican Lake
Fifteenmile Flat
Sheep Wash
Eightmile Flat
Castle Peak
Flattop Buttes
Uteland Butte
Duchesne River
Uintah River
Nutters Hole
Rock House Cow Camp
Oil and Gas
Oil Field
Ranch
House

mapco INC.

PRODUCTION DIVISION - NORTHERN DISTRICT

April 20, 1978



State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention: Cleon Feight

Re: Application for Permit to Drill
River Bend #14-08-0001-16305

Gentlemen:

Enclosed for your information is a copy of the Application for Permit to Drill and attachments for each of the following wells:

RBU No. 11-21E
RBU No. 5-12D
RBU No. 11-16F
RBU No. 11-23E
RBU No. 11-14E
RBU No. 5-11D
RBU No. 11-10E
RBU No. 15-17E
RBU No. 7-25B
RBU No. 11-19F

Very truly yours,

MAPCO Inc.

James J. Benner

James J. Benner
Reservoir and Production Engineer

JJB/jv

Enclosures

SUITE 320 PLAZA WEST 1537 AVENUE D BILLINGS, MONTANA 59102 A/C 406 248-7406

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-013821-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

7. UNIT AGREEMENT NAME: River Bend #14-08-0001-16305

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: MAPCO Inc.

9. WELL NO.: RBU 5-12D

3. ADDRESS OF OPERATOR: Suite 320 Plaza West, 1537 Avenue D., Billings, Montana 59102

10. FIELD AND POOL, OR WILDCAT: River Bend

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: (1) ~~2130'~~ 2180' FNL & 821 FWL SW NW Section 12 Loc Change
At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 12 T. 10 S., R. 18 E.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 17 Miles SW of Ouray, Utah

12. COUNTY OR PARISH: Uintah — 13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 510'

16. NO. OF ACRES IN LEASE: 640.48

17. NO. OF ACRES ASSIGNED TO THIS WELL: 640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: None

19. PROPOSED DEPTH: (5) 8285'

20. ROTARY OR CABLE TOOLS: (4) Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): (2) 4918' Ungraded GL

22. APPROX. DATE WORK WILL START*: (14) 9-15-78 — 30 days

23. (8) and (9) 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" -New	24	500'	Cement to surface
7-7/8"	5-1/2" -New	17	8285'	As required

Data required to be included on Form 9-331C by NTL-6, dated 6-1-76, as Items No. (1), (2), (4), (5), (8), (9) and (14) are so noted above. The rest as follows:

(3) and (6):

Uintah	Surface	Chapita Wells	5385'
Green River	1155'	Uteland Bts.	6585'
Wasatch	4655'	Mesaverde	7785'

DUPLICATE COPY

(7): No water anticipated; possible thin, non-commercial oil bearing sands encountered in the Green River from approxiamtely 1150'-4650'±; no commercially productive oil bearing sands encountered in this area previously; gas bearing formations will be the Wasatch, expected intermediate overall interval from 4650'-7800'±, and the Mesaverde from 7785'± to a total depth of 8285'.

(10): Figure #1 (attached)

--Continued on back of page--

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 J. D. Hollman J. D. Hollman — TITLE Manager of Operations Northern District — DATE April 13, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY W P Martens — TITLE FOR E. W. GUYNN DISTRICT ENGINEER — DATE JUL 24 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

*See Instructions On Reverse Side

State O&G - UT

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

(11): The well is to be drilled with a salt water mud system maintaining a weight of approximately 9#/gal with weighting material on location sufficient to weight-up for pressure control as necessary.

(12): A mud logger will be used from 4000' to TD. No drill stem tests will be run. No coring will be done. The logging program will include Dual Induction and CNL-Density Logs.

(13): As noted in #(1), no abnormal pressures are anticipated nor is the area known for abnormal temperatures. The formations to be penetrated do not contain H_2S gas.

(15): Auxiliary equipment:
(a) Kelly cock
(b) Full opening valve on floor with DP Connection for use when Kelly is not in string
(c) Pit volume totalizer equipment will be used.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-762-222/208 REGION NO. 8

FROM: District Geologist, Salt Lake City, Utah

TO: District Engineer, Salt Lake City, Utah Lease No. U-013821-A

SUBJECT: APD supplemental stipulations

Operator: MAPCO Inc. Location: 2130' FNL, 821' FWL

sw ¼ nw¼ sec. 12 T. 10 S., R. 18 E., SLM

Well: RBU 5-12D Uintah Co., Utah

1. Operator picked tops are adequate? Yes X, No ___. If not: The following are estimated tops of important geologic markers:

Formation	Depth	Formation	Depth

2. Fresh water aquifers likely to be present below surface casing? Yes X, No ___. If yes: Surface casing program may require adjustment for protection of fresh water aquifers to a depth of approximately 500 feet in the Uintah Formation.

3. Does operator note all prospectively valuable oil and gas horizons? Yes X, No ___. If not: The following additional horizons will be adequately logged for hydrocarbons:

Unit	Depth	Unit	Depth

4. Any other leasable minerals present? Yes X, No ___. If yes: 1. Logs (Sonic, and others per APD *) will be run through the Green River Formation ** at approximate depths of 1500 to 2000 feet to adequately locate and identify anticipated oil shale beds. 2. Logs (_____ *) will be run through the _____ ** at approximate depths of _____ to _____ feet to adequately locate and identify anticipated _____ beds. 3. Logs (_____ *) will be run through the _____ ** at approximate depths of _____ to _____ feet to adequately locate and identify anticipated _____ beds.

5. Any potential problems that should be brought to operators attention (e.g. abnormal temperature, pressure, incompetent beds, H_2S)? Yes ___, No X. If yes, what?

6. References and remarks: Within ½ mile of Uteland Buttes KGS

* From 10 pt or others as necessary. ** Members, Formations.

Date: May 5, 1978 Signed: James F. Kobler

Oil and Gas Drilling EIA No. 1027

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-013821-A

Operator Mapco Inc. Well No. RBU 5-12D

Location ~~2130'~~ 2180' FNL & 821' FWL SWNW Sec. 12 T. 10S R. 18E

County Uintah State Utah Field River Bend

Status: Surface Ownership Public Minerals Public

Joint Field Inspection Date May 2, 1978

Participants and Organizations:

Howard Lemm	USGS
Steve Ellis	BLM
Steve Hale	Mapco
Gene Stewart	Uintah Eng.

Related Environmental Analyses and References:

(1)

(2)

Analysis Prepared by: Howard Lemm
Petroleum Engineer
Billings, Montana

Date May 9, 1978

NOTED JOHN T. EVANS, JR.

Proposed Action:

On April 19, 1978, Mapco Inc. filed an Application for Permit to Drill the No. RBU 5-12D development well, an 8285 foot gas test of the Mesaverde formation; located at an elevation of 4918 feet in the SWNW Sec. 12 10S 18Eon Federal mineral lands and BLM surface; lease No. U-013821-A. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling.. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventer would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah, and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The drilling operation would begin within 4 months upon approval of the A.P.D. and would be expected to last 30 days to reach total depth and complete the well for production if hydrocarbons are discovered.

A working agreement has been reached with the BLM, controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements. Written concurrence of the surface managing agency is attached.

Location and Natural Setting:

The proposed drillsite is approximately 17 miles southwest of Ouray, Utah, the nearest town. There are no dwellings in the immediate area. An access road of 3.2 miles will be constructed. This well is in the River Bend field.

The overall topography consists of steep ridges and deep canyons. The location is on a slightly angled hillside. The surface geology is the Uintah formation. The soil is clay and sand. No geologic hazards are known near the drillsite.

/

Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan. No mining of any sort is anticipated in the area. The land is used primarily for grazing. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis. Annual precipitation is approximately 9-11 inches. Winds are strong and steady, occurring predominately from west to east. Air mass inversions are rare.

The area eventually drains into the Green River. The depths of freshwater formations are listed in the 10-Point Subsurface Protection Plan.

Vegetation consists of sagebrush, rabbitbrush, native grasses and cacti. Mammalian wildlife in the area include deer, coyote, rabbit, prairie dog, small gophers, and mice. There are numerous prairie and mountain birds in the general area, including the following: Sage hen, and birds of prey such as owls, and various types of hawks and falcons. Snakes and small lizards are also present on a seasonal basis. There are no known endangered or threatened plant species in the area. There are no known endangered animal species in the area.

The inspecting archaeologist, Steve Hayes of AERC, Salt Lake City, found no sites that would conflict with the proposed operation. There are no known historical, cultural or archaeological sites in the area. There are no national, state or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Hill Creek Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Effects on the Environment by the Proposed Action:

The wellpad would disturb approximately 2½ acres. The access road would be approximately 3½ miles long. An estimated 17 ft. cut and 13 ft. fill would be necessary to level the pad area. The vegetation would be removed and minor relocation of wildlife in the immediate area, particularly small rodents, would be anticipated. If the test well results in a discover of a gas pool, additional facilities would be needed requiring no additional surface acres. Construction of flowlines would disturb long, narrow strips of the surface for a short period of time.

The mud and reserve pits would contain all fluids used during the drilling operations. The potential for gas leaks and related accidents would be present. Should a gas leak occur, the effect on the atmosphere would be extremely short-lived. If the well should be productive, precautions would be taken against such accidents. Toxic or noxious gases would not be anticipated.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes wouldbe installed to minimize the problem. There would be no tangible effect on water migration in fresh-water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval under NTL-2B.

Waterways woud not be affected directly due to their distance from the site.

Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

A trash pit would be utilized for any solid wastes generated at the site and would be buried after the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

The animals and vegetation of the area would be disturbed for the life of the project. If the project was to produce hydrocarbons, adjustments in habitat occupancy would be expected. At abandonment, normal rehabilitation of the area such as countouring, reseeding, etcl, would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

The site is not visible from any major roads. Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment. The anticipated traffic would have a minimal impact on traffic and vehicular safety problems. Normal precautions would be employed to prevent damage or injury to ranch property and personnel. Aside from recreational activities such as hunting, the only other human conlflicts that would arise in normal useage of the area would be the oil and gas operations. These would be minor, with planned precautions to limit such conflict.

The economic and environmental impact of a single well is normally somewhat negligible. But should this well discover a significant new hydrocarbon source, local, state and possibly national economies might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Alternatives to the Proposed Action:

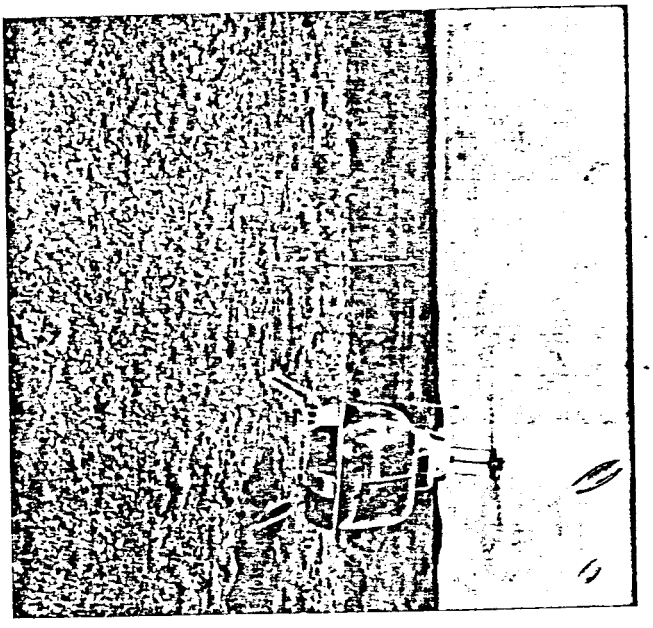
1. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and BLM supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2. Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected.

Adverse Environmental Effects which cannot be Avoided:

Surface scars resulting from construction work, wellpad and the access road would be visible for the life of the project and for a period of time after abandonment while rehabilitation is completed. The disturbed areas would not be available for grazing purposes during the project's life time. Minor relocation of wildlife, notably small rodents, in the immediate area would be anticipated. Any improvement of existing roads would be a semi-permanent effect as traffic would

continue to utilize the access road. Some erosion would be anticipated with the removal of vegetative cover. Dust levels and exhaust pllutants would increase somewhat during the construction and drilling phases of the operation. Traffic hazards, though low, would be present. Noise levels would increase during construction and drilling. The potential for gas leaks and related accidents would be present. If hydrocarbons are discovered and produced, further oil and gas development of the area would be expected to occur which would result in the extraction of an irreplaceable resource, and further negative environmental impacts.



Determination:

This requested action does not constitute a major Federal Action significantly affecting the environment in the sense of NEPA, Section 102(2)(c).

District Engineer: _____

Salt Lake City, Utah

Oil and Gas Drilling EA #1027-A

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

Usual Environmental Analysis

Date: June 6, 1980

Operator: Mapco, Inc. Project or Well Name and No.: 5-12D

Location: 2180' FNL & 821' FWL Sec.: 12 T.: 10S R.: 18E

County. Uintah State: Utah Field/Unit: River Bend

Lease No.: U-013821-A Permit No.: N/A

Joint Field Inspection Date: April 29, 1980 and June 2, 1980

Prepared By: Greg Darlington

Field Inspection Participants, Titles and Organizations:

Greg Darlington	U.S.G.S. - Vernal, Utah (both onsites)
Gary Slagel	BLM - Vernal, Utah (both onsites)
Frank Farnham	Mapco Inc. (April 29, 1980 onsite)
Darwin Kulland	Mapco Inc. (June 2, 1980 onsite)
Larry England	BLM - Vernal, Utah (June 2, 1980 onsite)

Related Environmental Analyses and References:

(1) Unit Resource Analysis, Duchesne Planning Unit (08-06), BLM, Vernal, Utah

lj 7/3/80

DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah

   County. Uintah

   2180' FNL, 821' FWL, SW 1/4 NW 1/4

   Section 12, T 10S, R 18E, S L M.

2. Surface Ownership Location: Public.

   Access Road: Public.

   Status of
   Reclamation Agreements: Apparently adequate. The BLM will be suitably consulted when the time becomes appropriate to commence restoration and reclamation activities.

3. Dates APD Filed: April 19, 1980.

   APD Technically Complete: March 31,1980.

   APD Administratively Complete: May 27, 1980.

4. Project Time Frame

   Starting Date: July 1980 .

   Duration of Drilling activities: 30 days.

   A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

   None known.

6. Nearby pending actions which may affect or be affected by the proposed action:

   Mapco has a recent staking in Section 11 which may use the first 1500 feet of this new access road also. It will be on the north side of the proposed new access road.

7. Status of Variance Requests:

   None known.

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 190' wide x 400' long and a reserve pit 100' x 175' would be constructed. Approximately 1.5 miles of new access road, averaging 18' driving surface, would be constructed and approximately 3 miles of existing road would be improved to 18' driving surface from a maintained road. 5.4 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to 30'.

2. Drilling would be to a to a proposed depth of 8285 feet.

3. Waste disposal.

4. Traffic.

5. Water requirements.

6. Completion.

7. Production.

8. Transportation of hydrocarbons.

   Details of the proposed action are described in the Application for Permit to Drill.

The location was moved to avoid a drainage, avoid the adjacent site of a small concentration of an endangered species of cactus and better fit the topography of the location.

The access road was changed per the attached map to reduce distance, use existing topography and avoid a drainage of about 18 foot width which may be too sandy to support heavy traffic associated with a drilling rig. Also to use a route needed for another recent staking since this was suitable for part of the access. This would also avoid a steep grade near the east side of the pad.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: The location is about 3/4 miles from the Green River, but 2 1/2 miles away by way of existing drainage channels. The wellsite is on the side of a hill about 400 feet from Fourmile Wash. The wash continues about 2 1/2 miles further before reaching the Green River.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: Oil shale possible at approximate depths of 1500-2000 feet. Appropriate sonic and other logs as specified in the APD should be furnished to the District Geologist.

Information Source: Mineral Evaluation Report.

2. Hazards:

a. Land Stability: Adequate for the proposed action.

Information Source: Field Observation.

b. Subsidence: Probably not significant hazard at this location. No special problems are evident.

Information Source: Field Observation.

c. Seismicity: the location is in an area of minor seismic risk.

Information Source: Geologic Atlas of the Rocky Mountain Region, 1972, "Earthquakes of Record and Interpreted Seismicity 1852-1969", Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: No abnormal pressures or H_2S hazards are anticipated. Figure #1 (on last page of APD) describe BOP equipment. A more adequate description may be desirable.

Information Source: APD.

B. Soils:

1. Soil Character: The soil is a sandy clay with considerable shale fragments and gravels present.

Information Source: Field Observation.

2. Erosion/Sedimentation: Not likely to be a significant problem. The soil seems to be of suitable stability.

Information Source: Field Observation.

C. Air Quality: Temporary impacts would occur during the construction and drilling phases of this proposed project.

Information Source: Field Observation.

D. Noise Levels: Temporary impacts would occur during the construction and drilling phases of this proposed project.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: The Green River is 3/4 miles from this location. The location would drain to Fourmile Wash located about 200 feet from the edge of this location and proceed from there to the Green River with about 2 1/2 miles distance involved in the existing drainage channel.

Information Source: APD maps.

b. Ground Waters: Fresh water aquifers are likely to be present in the Uintah formation. Some adjustments in the proposed casing program may be needed to adequately protect them.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: The Green River is unlikely to be impacted from this well because Fourmile Wash still has 2 1/2 miles of channel from this location to the river. Adequate pit construction would minimize the impacts of this drilliing on surface waters.

Information Source: Field Observation.

b. Ground Waters: The operator proposes 500 feet of surface casing 8 5/8" and 5 1/2" casing from the TD of 8285'.

Information Source: APD.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the BLM comments received from Vernal BLM District on June 6, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Shad scale, desert shrubs, cactus, etc. Some rare cacti were found near the location although none were found on this location.

Information Source: Field Observation.

3. Fauna: Mule deer, coyotes, pronghorn antelope, rabbits, small rodents, various reptiles and various birds such as raptors, finches, ground sparrow, magpies, crows and jays.

Information Source: APD.

G. Land Uses

1. General Grazing and oil and gas development are the major land uses.

Information Source: Field Observation.

2. Affected Floodplains and/or Wetlands: None.

Information Source: Field Observation.

3. Roadless/Wilderness Area: The location, when tentatively approved in 1978 was in a wilderness inventory area and could not be drilled in 1978. It has since been dropped.

Information Source: Darwin Kulland and the BLM Utah Wilderness Inventory Map of August of 1979.

H. Aesthetics: The visual impact would not be significant. The access road needed would involve some impacts. The area is quite remote and not subject to very frequent visitation.

Information Source: Field Observation.

I. Socioeconomics: The impact of this one well is not in itself significant, but it may lead to various cumulative impacts usually associated with more extensive oil and gas development. Some of these may be close enough to the Green River to have a significant potential impact on the environment.

Information Source: Greg Darlington, Environmental Scientist, USGS.

J. Cultural Resources Determination: Based on the BLM comments received from Vernal District BLM on June 6, 1980, we determine that there would be no effect on cultural resources subject to suitable archaeological clearances received by the BLM.

Information Source: BLM stipulation letter.

K. Adequacy of Restoration Plans: Apparently adequate. The BLM will be suitably consulted when the time becomes appropriate to commence restoration and reclamation activities.

Information Source: APD and BLM stipulation letter.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

   a. About 5.4 acres of vegetation would be removed, increasing and accelerating erosion potential.

   b. Pollution of groundwater systems could occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.

   c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.

   d. The potential for fires, leaks, spills of gas and oil or water exists.

   e. During construction and drilling phases of the operation, noise and dust levels would increase.

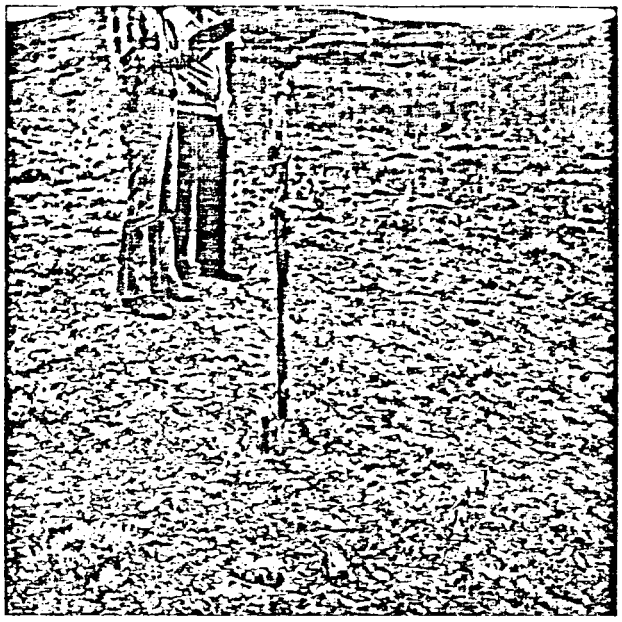
   f. Distractions from aesthetics during the lifetime of the project would exist.

   g. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to Green River would exist through leaks and spills.

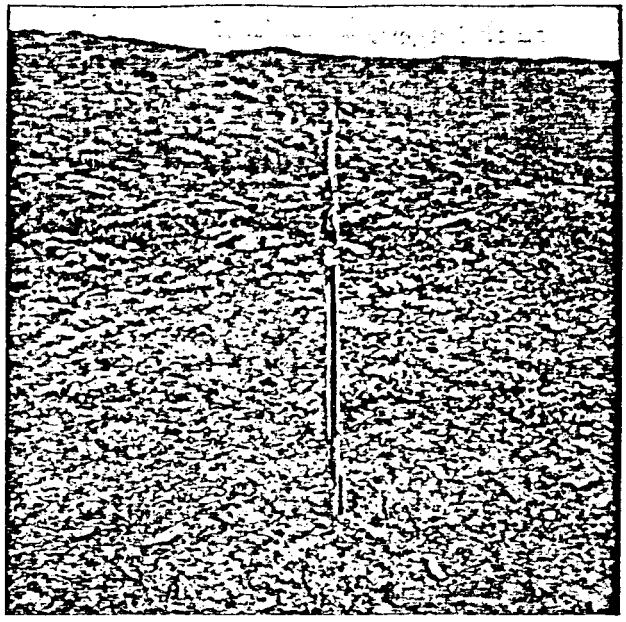
   h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

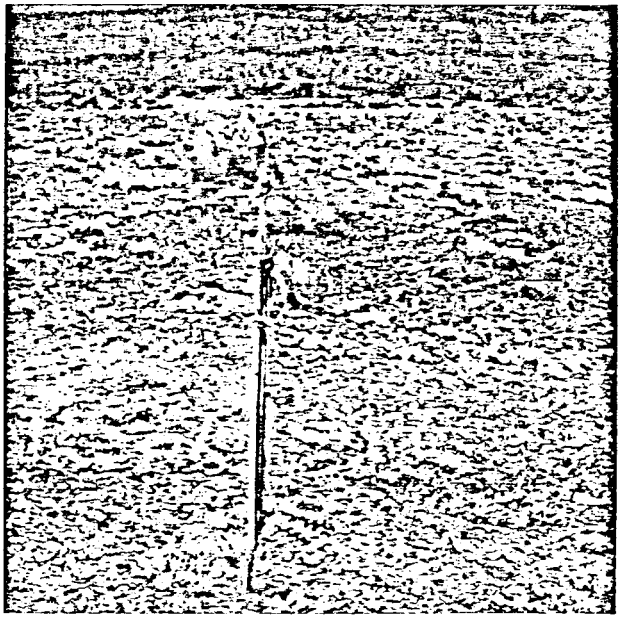
   a. All adverse impacts described in section one above could occur.



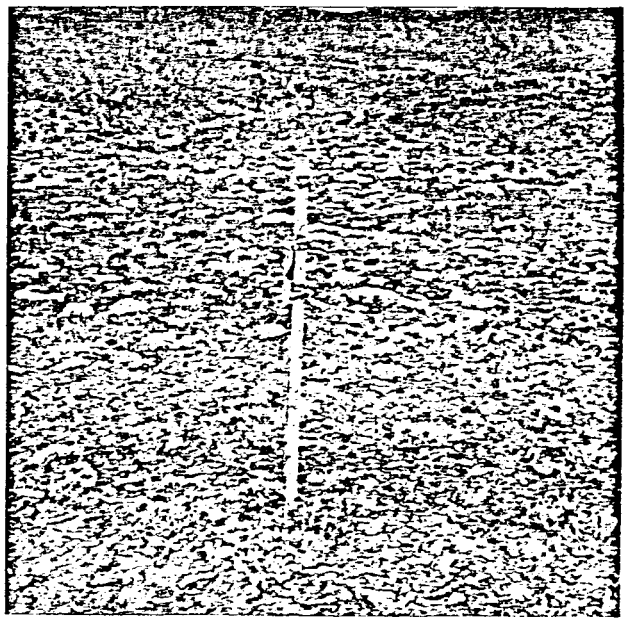
East View
Mapco 5-12 D



North View
Mapco 5-12D



South View
Mapco 5-12D



Toward Stake 7
West View
Mapco 5-12D

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. See attached BLM Stipulations.

2. Suitable logs of the Green River formation oil shale bearing zones should be furnished to the District Geologist, Mineral Evaluation, Salt Lake City, Utah per the request of the the Mineral Evaluation Report.

Controversial Issues and Conservation Division Response:

A rare species of cactus near this location was found by Larry England, BLM Biologist. The location is on 3/4 miles from the Green River.

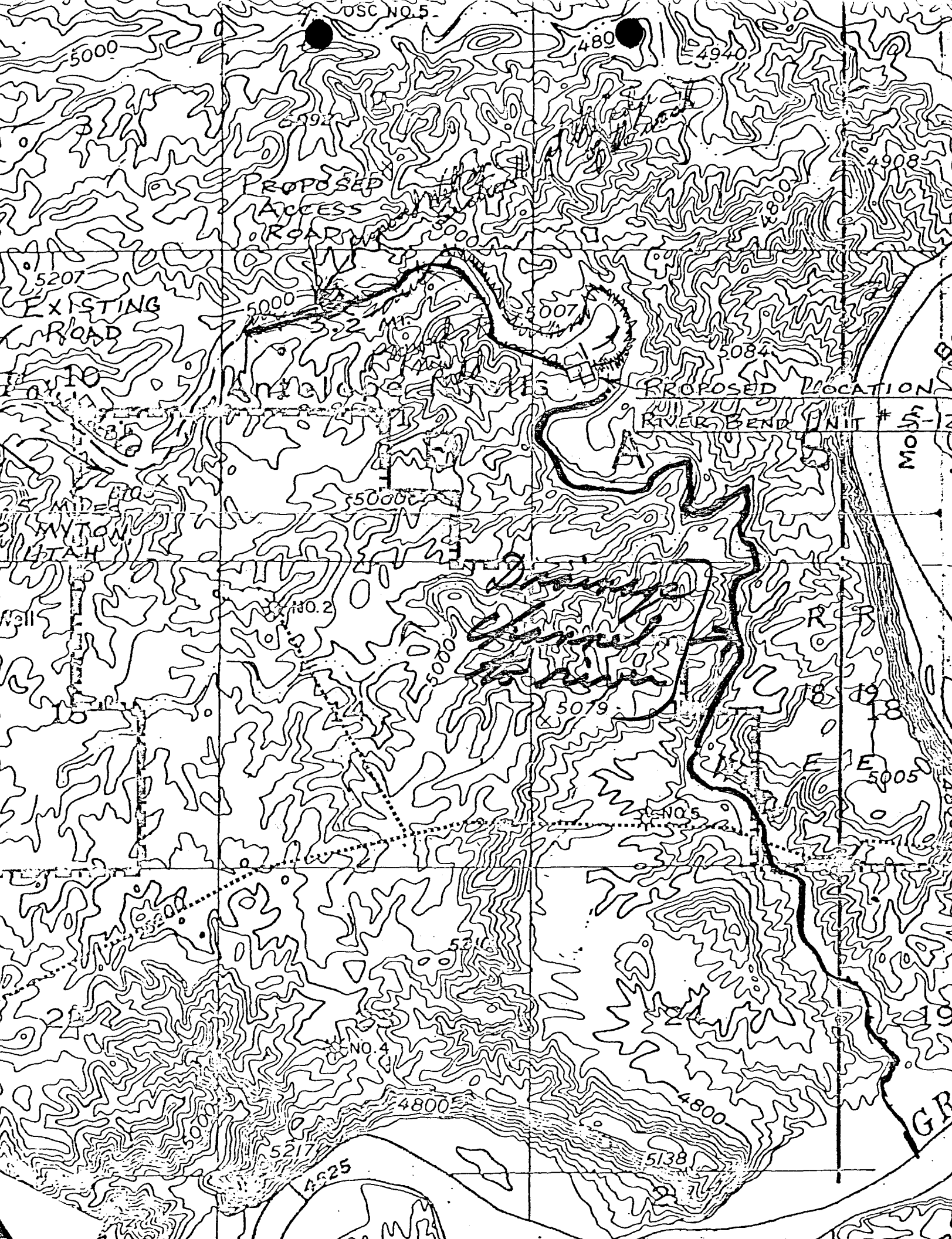
We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

DISTRICT ENGINEER
Signature & Title of Approving Official

JUL 08 1980
Date


OSC NO.5
5000
4940
4908
PROPOSED ACCESS ROAD
5207
EXISTING ROAD
5000
5007
5084
PROPOSED LOCATION
RIVER BEND UNIT #
MID-WYTOM UTAH
NO.2
5000
5079
NO.5
5005
NO.4
4800
4800
5217
5138
4625

IN REPLY REFER
T & R
(U-801)

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 South 500 East
Vernal, Utah 84078

June 3, 1980

Mr. Ed Guynn, District Engineer
USGS, Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Re: MAPCO Production Company
Well #5-12D T10S, R18E, Sec. 12
Well #4-30B T9S, R19E, Sec. 30
Well #1-26A T9S, R18E, Sec. 26

Dear Mr. Guynn:

A joint field examination with personnel from the BLM, USGS, and MAPCO Production Company, was made on June 2, 1980 of the above referenced well site locations and their access roads. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construction and maintenance of roads and rehabilitation of disturbed areas shall be in accordance with surface use standards as set forth in the brochure, "Surface Operating Standards for Oil and Gas Exploration and Development".

2. The maximum width of access roads will be 30 feet total disturbed area. Roads will be crowned and properly maintained by the operator. Travelling off access road right-of-ways will not be allowed. Turnouts will not be required.

3. Topsoil will be stockpiled as addressed in the applicants 13 point plan. The BLM recommends that the top 8-10 inches of soil be stockpiled at each site.

4. A cattleguard will be necessary for the access road to well #4-30B.

5. A fence that crosses the pad for well #1-26A will have to be rerouted around the location. The fence will be reconstructed in the manner in which it is presently built. Should the well prove to be a dry hole, the fence will be put back in its original place.

6. The pit for well #5-12D will be reduced to 100' x 175'.

7. It was decided at the joint on-site to move the pad for well #5-12D south 50 feet, and to rotate the entire pad clockwise 10° to run with the slope of the hill.

8. A burn pit will not be constructed. There will be no burying of garbage and trash at well sites. All trash and garbage must be contained and hauled to the nearest sanitary landfill for proper disposal.

9. The BLM will be contacted at least 24 hours prior to pad construction.

10. The BLM will be contacted at least 24 hours prior to any rehabilitation so that the operator may be appraised of seeding and restoration requirements.

Archeological clearances have been received by this office for these proposed wells and their access roads.

The proposed activities do not jeopardize listed, threatened, or endangered flora/fauna or their habitats.

Sincerely,

Ralph J. Heft
Area Manager
Diamond Mtn. Resource Area

cc: USGS, Vernal

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: April 25.

Operator: Mapco Inc.

Well No: Kyle Bend Unit 5-12D

Location: Sec. 12 T. 10S R. 18E County: Uintah

File Prepared: / ✓ / *Entered on N.I.D.:* / ✓ /

Card Indexed: / ✓ / *Completion Sheet:* / ✓ /

API NUMBER: 43-047-30413

CHECKED BY:

Administrative Assistant SW

Remarks: OK Unit Well

Petroleum Engineer ____ OK. PL

Remarks:

Director ✓

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: OK /

Survey Plat Required: /

Order No. / /

Surface Casing Change to / /

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site /

O.K. Rule C-3 /

O.K. In Kyle Bend *Unit* / ✓ /

Other:

/ ✓ / ~~Letter Written~~ Approved

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

December 28, 1979

Mapco Inc.
Suite #320 Plaza West
1537 Ave. D.
Billings, Montana 59102

RE: Well No. River Bend Unit # 5-12D
Sec. 12, T. 10S, R. 18E,
Uintah County, Utah

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill this well (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms.* If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan on drilling this well at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

DEBBIE BEAUREGARD
CLERK-TYPIST

MAPCO PRODUCTION COMPANY

a subsidiary of mapco inc.

January 8, 1980

NORTHERN REGION

RECEIVED
JAN 10 1980
DIVISION OF
OIL, GAS & MINING

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: Well No. River Bend Unit #11-16F
River Bend Unit #15-17E
River Bend Unit # 5-12D

Gentlemen:

In answer to your letters of December 28, 1979, regarding the subject wells;

Copies of the Operation and Well Status Reports for the 11-16F are attached. These reports are mailed to your office each month and must have been lost, the November report has not been attached as the well went on production in that month and will be mailed in accordance with Rule C-22 (2).

Referring to Prod. reports, NOT DRILLING REPORTS

RBU 15-17E has not been spudded for drilling.

RBU 5-12D has not been spudded for drilling.

If we can be of further assistance, please advise.

Very truly yours,

MAPCO Production Company

Richard Baumann

Richard Baumann
Engineering Technician

Enclosure

JV

SUITE 320 PLAZA WEST 1537 AVENUE D BILLINGS, MONTANA 59102 A/C 406 248-7406

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

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: MAPCO PRODUCTION COMPANY
Alpine Executive Center

3. ADDRESS OF OPERATOR: 1643 Lewis Ave., Suite 202
Billings, MT 59102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 2130' FNL & 821' FWL Sec. 12, T. 10 S., R. 18 E.
AT SURFACE:
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH:

5. LEASE: U-013821-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: River Bend Unit #14-08-0001-16035

8. FARM OR LEASE NAME:

9. WELL NO.: RBU 5-12D

10. FIELD OR WILDCAT NAME: River Bend

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 12, T. 10 S., R. 18 E.

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. API NO.: 43-047-30413

15. ELEVATIONS (SHOW DF, KDB, AND WD): 4918' Ungraded GL

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☒	☐
ABANDON*	☐	☐
(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.)*

MAPCO intends to change the T.D. of the proposed well from 8285' in the Mesaverde to 4885' in the Wasatch.

Please see the attached revised Casing, Cementing and Drilling Program.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 5-5-80
BY: M. J. Minder

RECEIVED
MAY 1 1980
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 Richard Baumann TITLE Eng. Technician DATE 4-24-80
Richard Baumann

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

PROPOSED CASING, CEMENTING AND DRILLING PROGRAM
MAPCO PRODUCTION COMPANY
RIVER BEND UNIT 5-12D

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY CEMENT
12-1/4"	8-5/8"	24# H-40	400'	Cmt to surface
7-7/8"	5-1/2"	14# K-55	4885'	Cmt to surface

1. Drill a 12-1/4" hole with an air rig to 400'. Run 8-5/8", H-40 casing and cement to surface.
2. NU and pressure test BOP stack prior to drilling out below surface pipe.
3. Test pipe rams daily and blind rams as possible.
4. Drill a 7-7/8" hole to 4885' with a fresh water mud system. No cores are planned. DST's will be run as needed to evaluate unexpected shows.
5. Run logs. Set 5-1/2", 14#, K-55 casing. Casing program may be modified to provide added burst strength if needed for frac program.
6. Primary zone of interest is the Green River section.
7. All zones indicating potential for economically recoverable reserves will be tested in a normal, prudent manner.

REVISED FORMATION TOPS:

Green River 1155'

Wasatch 4655'

9-331
1973

Form Approved.
Budget Bureau No. 42-R1424

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: MAPCO PRODUCTION COMPANY
Alpine Executive Center

3. ADDRESS OF OPERATOR: 1643 Lewis Ave., Suite 202
Billings, MT 59102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 2130' FNL & 821' FWL Sec. 12, T. 10 S., R. 18 E.
AT SURFACE:
AT TOP PROD. INTERVAL: SAME
AT TOTAL DEPTH:

5. LEASE: U-013821-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: River Bend Unit
#14-08-0001-16035

8. FARM OR LEASE NAME:

9. WELL NO.: RBU 5-12D

10. FIELD OR WILDCAT NAME: River Bend

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 12, T. 10 S., R. 18 E.

12. COUNTY OR PARISH: Uintah

13. STATE: Utah

14. API NO.: 43-047-30413

15. ELEVATIONS (SHOW DF, KDB, AND WD): 4918' Ungraded GL

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☒	☐
ABANDON*	☐	☐
(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.)*

A Sundry Notice to change zones on the RBU 5-12D was filed with your office on 4/24/80 and subsequently approved.

A revision is now made to the Proposed Casing, Cementing and Drilling Program that was attached to the aforementioned Sundry Notice. Item #4 of the attachment should read:

4. Drill a 7-7/8" hole to 4885' with a salt water mud system. No cores are planned. DST's will be run as needed to evaluate unexpected shows.

RECEIVED
MAY 12 1980
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 Richard Baumann Richard Baumann TITLE Eng. Technician DATE 5-9-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 5-20-80
BY: M. J. Minder

*See Instructions on Reverse Side

MAPCO PRODUCTION COMPANY

June 1, 1981

State of Utah
Dept of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Attn: Debbie

Dear Debbie;

Upon your request, I have listed the wells and status of each:

Well Name	Location	Status
Fed 12-30B	Sec 30, T9S, R19E	Will Not Drill
RBU 7-36B	Sec 36, T9S, R19E	" " "
RBU 11X-36B	Sec 36, T9S, R19E	" " "
RBU 11-24B	Sec 24, T9S, R19E	" " "
RBU 5-12D	Sec 12, T10S, R18E	Plan to Drill
RBU 11-19C	Sec 19, T9S, R20E	" " "
RBU 11-30C	Sec 30, T9S, R20E	Will Not Drill
RBU 11-15D	Sec 15, T10S, R18E	" " "
RBU 11-15E	Sec 15, T10S, R19E	" " "
RBU 1-16E	Sec 16, T10S, R19E	" " "
RBU 9-16E	Sec 16, T10S, R19E	" " "
RBU 2-11D	Sec 11, T10S, R18E	Plan to Drill
RBU 11X-2F	Sec 2, T10S, R20E	Will Not Drill
RBU 8-31C	Sec 31, T9S, R20E	" " "
Fed 1-25A	Sec 25, T9S, R18E	" " "
Fed 3-25A	Sec 25, T9S, R18E	" " "
Fed 9-25A	Sec 25, T9S, R18E	" " "
Fed 11-25A	Sec 25, T9S, R18E	" " "
Fed 13-25A	Sec 25, T9S, R18E	" " "
Fed 15-25A	Sec 25, T9S, R18E	" " "
Fed 11-24A	Sec 24, T9S, R18E	" " "
Fed 13-24A	Sec 24, T9S, R18E	" " "
Fed 15-24A	Sec 24, T9S, R18E	" " "

If there is any more information I can give you please let me know.

Very truly yours,

MAPCO Production Company

Dick Baumann

Dick Baumann
Engineering Technician

REB/jlu

Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

August 10, 1981

MAPCO Inc.
Suite 320 Plaza West
1537 Avenue D.
Billings, Montana 59102

Re: Return Application for
Permit to Drill
Well No. RBU 5-12D
Section 12, T. 10S, R. 18E.
Uintah County, Utah
Lease No. U-013821-A

Gentlemen:

The Application for Permit to Drill the referenced well was approved July 24, 1980. Since that date no known activity has transpired at the approved location. Under current District policy, application's for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location on a future date a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must, then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

(Orig. Sgd.) E. W. GUYNN

E. W. Guynn
District Oil and Gas Supervisor

bcc: DCM, CR, O&G, Denver
BLM-Vernal
State Office (O&G)
State Office (BLM)
USGS-Vernal
Well File
APD Control

RAH/TM/tm

Form 9-331 C
(May 1963)

SUBMIT IN [illegible]ICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-013821-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

7. UNIT AGREEMENT NAME: River Bend Unit

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: MAPCO Production Company

9. WELL NO.: RBU 5-12D

3. ADDRESS OF OPERATOR: 1643 Lewis Ave., Ste. 202, Billings, MT 59102

OCT 28 1981

10. FIELD AND POOL, OR WILDCAT: ~~River Bend~~ Utelan Butte

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: SW NW Sec. 12, T. 10 S., R. 18 E., (2180' FNL & 821' FWL)

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

At proposed prod. zone: Same

DIVISION OF OIL, GAS & MINING

Sec. 12, T10S, R18E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 17 miles SW of Ouray, Utah

12. COUNTY OR PARISH: Uintah

13. STATE: UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
510'	640.48	640
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
NA	4885'	(4) Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4918' upgraded GL

22. APPROX. DATE WORK WILL START*:

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# K-55	400'	Cement to surface
7-7/8"	5-1/2"	15.5# K-55	4885'	Cement to surface

1. Drill a 12-1/4" hole with an air rig to 400'. Run 8-5/8", 24# K-55 casing and cement to surface.
2. NU and pressure test BOP stack (see Fig. 1) prior to drilling out below surface pipe.
3. Test pipe rams daily and blind rams as possible.
4. Drill a 7-7/8" hole to 4885' with a salt water mud system. No cores are planned. DST's will be run as needed to evaluate unexpected shows.
5. Run logs. Set 5-1/2",15.5# K55 casing. Release drilling rig. Casing program may be modified to provide added burst strength if needed for frac program.
6. Primary zone of interest is the Green River section.
7. RU completion rig to test in a normal prudent manner, all zones that indicate a potential for economically, recoverable reserves.

(See back for log tops)

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 R. E. Baumann TITLE Engineering Technician DATE 10/26/81

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/3/81
BY: [signature]

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

Formation Tops:

Green River	1155'
Wasatch	4655'

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-782-222/208 REGION NO. 8

TEN-POINT COMPLIANCE PROGRAM OF NTL-6
APPROVAL OF OPERATIONS

Attached to Form 9-331C
Company: MAPCO PRODUCTION COMPANY
Well: RBU 5-12D
Well Location: SW NW 2130' FNL & 821' FWL
Section 12, T. 10 S., R. 18 E.
County: Uintah State: Utah

1. Geologic Surface Formation

UINTAH

2. Estimated Important Geologic Markers

Formation	Depth
Uintah	Surface
Green River	1155'
Wasatch	4655'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Formation	Depth	Remarks
Green River	1155'	Possible oil zone
Wasatch	4655'	Possible gas zone

4. The Proposed Casing Program

SIZE OF CASING	WEIGHT & GRADE	SETTING DEPTH	QUANTITY OF CEMENT
8-5/8"	24# K-55	400'	Cement to surface
5-1/2"	17# K-55	4885'	Cement to surface

5. The Operator's Minimum Specifications for Pressure Control

See Figure #1, attached.
BOP stack has a 3000 psi working pressure. BOP's will be pressure tested before drilling casing cement plugs.
Pipe rams will be operated daily and blind rams as possible.

6. The Type and Characteristics of the Proposed Circulating Muds

Fresh water gel system. Use LCM as required to control loss circulation. Mud system to have proper rheological properties to maintain sufficient viscosity to clean hole, run logs and to land and cement casing.

7. The Auxiliary Equipment to be Used

1) Kelly cock.
2) Full opening valve on floor with DP connection for use when Kelly is not in string.
3) Pit volume totalizer equipment will be used.

8. The Testing, Logging, and Coring Programs to be Followed

A two (2) man mud logging unit will be in operation from surface to T.D.
The following open hole logs will be run:
1) DIL - MSFL - GR - Caliper
2) FDC - CNL - GR - Caliper

Exact logging detail and procedures will be prepared prior to reaching logging depth.

9. Any Anticipated Abnormal Pressures or Temperatures Expected

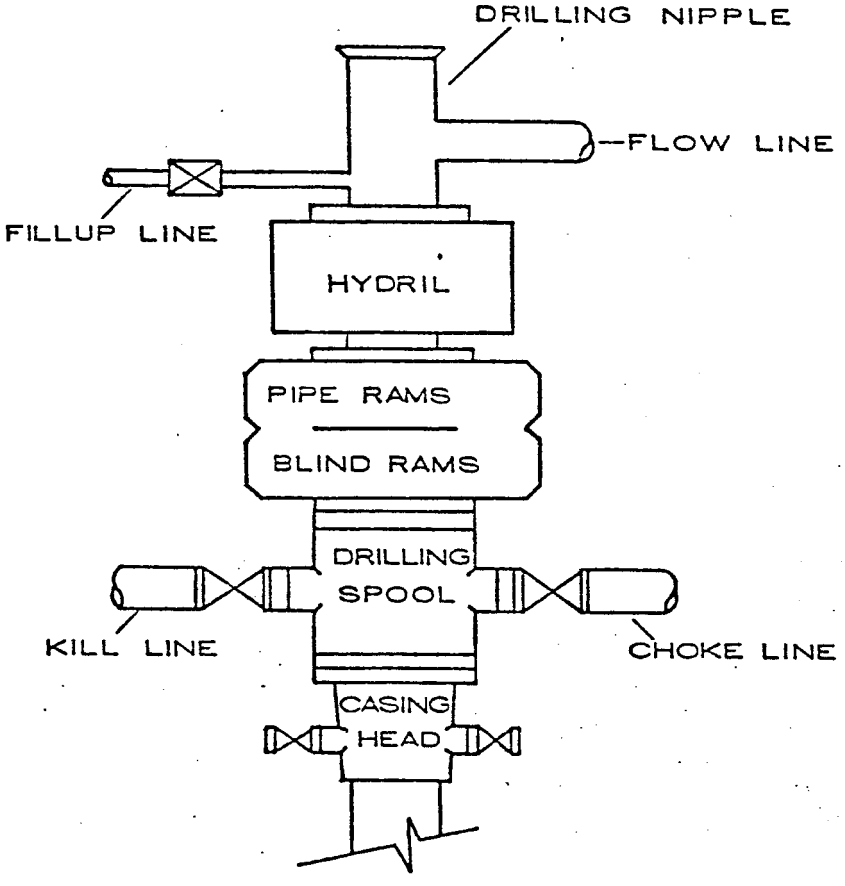
No abnormal pressures are anticipated nor is the area known for abnormal temperatures. The formations to be penetrated do not contain H_2S gas.

10. The Anticipated Starting Date and Duration of the Operations

Starting Date: Summer, 1982

Duration: 12 days

BOP STACK



CHOKE MANIFOLD

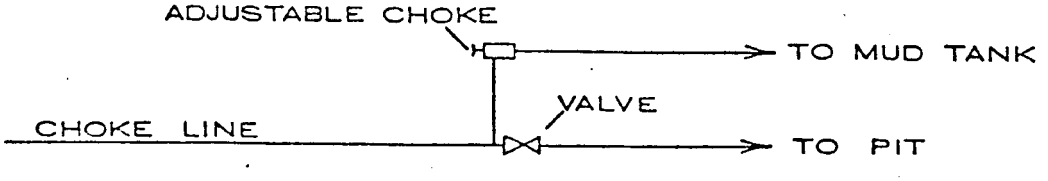


FIGURE 1

MULTI-POINT REQUIREMENTS TO ACCOMPANY APD

Attached to Form 9-331C
COMPANY: MAPCO PRODUCTION COMPANY
WELL: RBU 5-12D
WELL LOCATION: SW SW 2130' FNL & 821' FWL
Section 12, T. 10 S., R. 18 E.
County: Uintah State: UT

1. Existing Roads

A. The proposed well site and elevation plat is shown as Exhibit A.

B. Location is as shown in Exhibit B.

C. An access road of about 1 mile will be needed to reach the location from the existing road as shown in Exhibit B.

D. All existing roads are shown on Exhibits B

E. There is no anticipated construction on any existing roads.

2. Planned Access Roads

1. Width: Maximum of 30' right-of-way with road bed being approximately 16'-18', and remainder of right-of-way to be used for borrow ditches.

2. Maximum grade: 8%

3. Turnouts: None

4. Drainage design: Drain ditches along either side of the road, where necessary for drainage with material from borrow ditch used to build crown of road. As per meeting with BLM, BIA & USGS on May 3, 1979. No speed curves on hills.

5. Culverts: None

6. Surface materials: Native dirt.

7. Gates, cattleguards, fence cuts: Replaced, if cut.

3. Location of Existing Wells

All existing wells known in the area are shown directly on Exhibit B within the one-mile radius.

1. Water wells: None
2. Abandoned wells: None
3. Temporarily abandoned wells: None
4. Disposal wells: None
5. Drilling wells: None
6. Producing wells: RBU 4-11D
7. Shut-in wells: RBU 5-11D
8. Injection wells: None
9. Monitoring or observation wells: None

4. Location of Existing and/or Proposed Facilities

A. The location of existing and/or proposed facilities, if any, owned or controlled by lessee/operator within the 1-mile radius will be shown on Exhibit B.

1. Tank batteries: RBU 4-11D
2. Production facilities: None
3. Oil gathering lines: None
4. Gas gathering lines: None
5. Injection Lines: None
6. Disposal Lines: None

B. It is contemplated that, in the event of production, all new facilities will be easily accommodated on the drill pad on the solid base of cut and not placed on the fill areas.

1. No flagging then will be needed.

2. The dimensions of the production facilities and the location of facilities is drafted on Exhibit C. If production is obtained, then the unused areas will be restored as later described.

3. Concrete as needed and any gravels needed will be purchased from private sources.

4. All pits will be fenced to minimize any hazard to sheep, cattle, antelope and other animals that graze the area. Flagging material will be used as needed, if water or other fluid is produced.

C. Rehabilitaion, whether the well is productive or dry, will be accomplished as soon as possible in those areas already described, and in accordance with Item 10 following.

5. Water Supply

Water source is shown on Exhibit B.

A. Water source SE/4 of Section 18, T. 10 S., R. 19 E.

B. No pipelines are anticipated. Hauling will be on the road(s) shown in Exhibit B.

C. No water well is anticipated to be drilled at this time.

6. Source of Construction Materials

A. No construction material, insofar as drilling, will be needed.

B. No construction materials will be obtained from Federal or Indian land.

C. The native materials that will be used in the construction of this location site and access road will consist of sandy-clay soils and sandstone and shale materials gathered in actual construction of the road and location.

D. Access roads crossing federal lands are shown under Items 1 & 2.

7. Handling Waste Disposals

1. Drill cuttings will be buried in the reserve pit when covered.

2. Drilling fluids will be handled in the reserve pit.

3. Any produced fluids during drilling tests or while making production tests will be collected in reserve pit.

4. Any sewage will be covered or removed and chemical toilets will be provided.

5. Garbage and other waste material will be enclosed in a wire mesh container, and then disposed of in an approved waste disposal facility.

6. After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced or covered.

8. Ancillary Facilities

No proposed airstrip, camp, or other facility will be constructed during the drilling or completion of this well.

9. Well Site Layout

1. Exhibit E is the drill pad layout on a scale of 1" = 40'.

2. & 3. Exhibit E is a layout of the drilling rig, pits, and burn pits. Parking and trailers will be along the N-NW side of the area as shown. The access road will be from the W-NW. Soil stockpiles are also shown on Exhibit E.

4. The reserve pit will not be lined. Steel mud pits may be used, at least in part, during drilling operations.

10. Plans for Restoration

1. Backfilling, leveling and gentle sloping is planned and will be accomplished as soon as possible after plugging or setting of production casing. Waste disposal and spoils materials will be burried or hauled away immediately after operations cease from drilling and/or completion.

2. The soil banked materials will be spread over the area and gentle sloping or contouring to meet the existing terrain. Revegetation will be by planting of native vegetation to the area or some other combination as recommended by The Bureau of Land Management.

The access road to the drill pad will be revegetated, if needed. Any damage to present existing roads will be repaired as needed.

3. Prior to rig release, the pits will be fenced on the fourth side and so maintained until cleanup is accomplished. The reserve pit will have fencing on three sides during drilling.

4. If any oil is on the pits, and is not immediately removed after operations cease, then the pit will be flagged overhead to keep birds and fowl out.

5. The commencement of rehabilitation operations will begin as soon as possible after drilling ceases. Planting will be planned as suggested by BLM.

11. Other Information

1. Topography: The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstones, conglomerates, and shale deposits. The slope is from NW - SE at an approximate 6% grade.

Soil Characteristics and Geologic features: The soils of this semi-arid area are of the Uinta and Duchesne River formation (The Fluvial Sandstone & Mudstone) from the Eocene Epoch and Quaternary Epoch (gravel surfaces) and the visible geologic structures consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels and shales with out crops of rock (sandstone, mudstone, conglomerates and shales).

Flora: Areas of sagebrush, rabbitbrush, some grasses and cacti, and large areas of bare soils devoid of any growth.

Fauna: Is sparse but consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to the area. Birds of the area are raptors, finches, ground sparrows, mag pies, crows and jays.

2. Type of surface use activity: Primary purpose is grazing domestic livestock.

Surface ownership of all involved lands: BLM

3. Proximity of usable water (Shown on Exhibit D): Approximately 4.5 miles SE of proposed location.

Occupied dwellings (if any, shown on Exhibit B): None

Archaeological or historical sites (if any, shown on Exhibit B): None

12. Lessee's or Operator's Representative

James D. Holliman
Manager of Operations
MAPCO Production Company
Alpine Executive Center
1643 Lewis Ave., Suite 202
Billings, Montana 59102

Phone: (406) 248-7406
or
(406) 656-8435

or

Darwin Kulland
District Superintendent
MAPCO Production Company
P.O. Box 1360
Roosevelt, Utah 84066

Phone : (801) 722-4521

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the condition which presently exists; 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 MAPCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

October 26, 1981
DATE

J. D. Holliman
NAME J. D. Holliman

Manager of Operations
TITLE

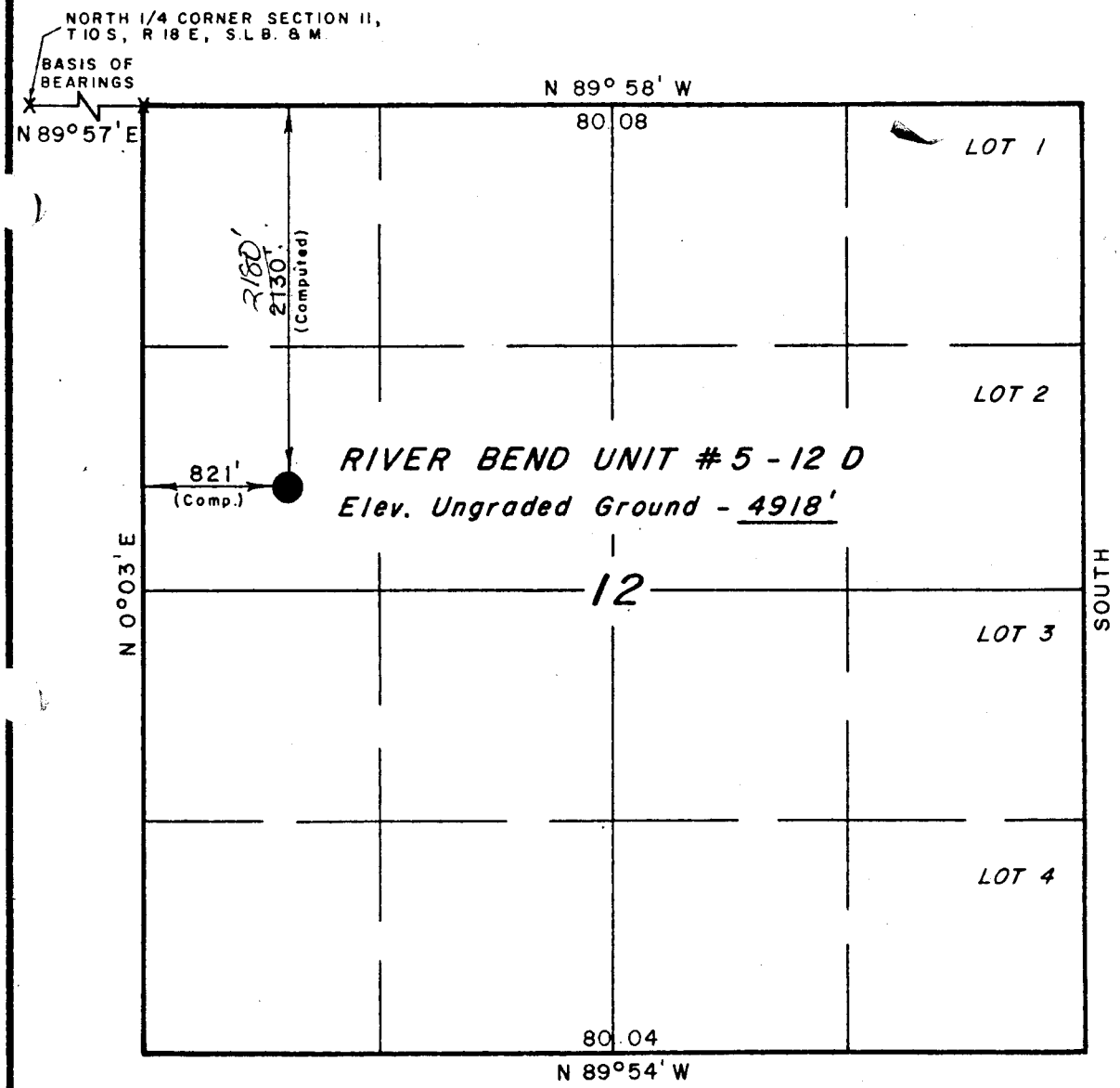
PROJECT

MAPCO INC.

Well location, *RIVER BEND UNIT # 5 - 12 D*, located as shown in the SW 1/4 NW 1/4 Section 12, T 10 S, R 18 E, S.L.B. & M. Uintah County, Utah.

Exhibit "A"

T 10 S, R 18 E, S.L.B. & M.



X = Section Corners Located

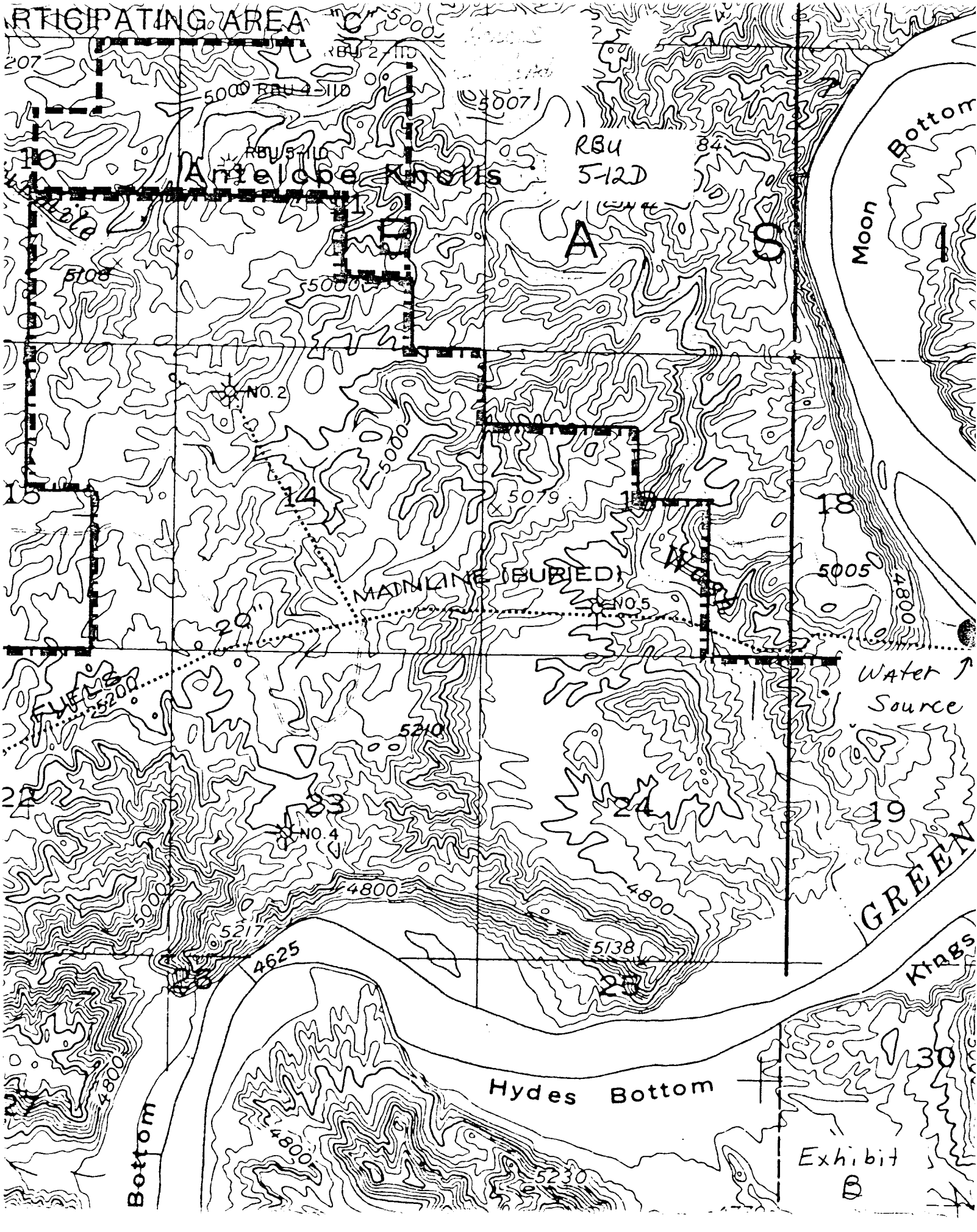
CERTIFICATE

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.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q — 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3/28/78
PARTY RK JB DJ	REFERENCES GLO Plat
WEATHER Fair	FILE MAPCO INC.


RTICIPATING AREA "C"
RBU 2-11D
RBU 4-11D
RBU 5-11D
Antelope Knolls
RBU 5-12D
A
B
Moon Bottom
NO. 2
NO. 5
NO. 4
MAINLINE (BURIED)
Water Source
Hydes Bottom
Bottom
GREEN
Exhibit B

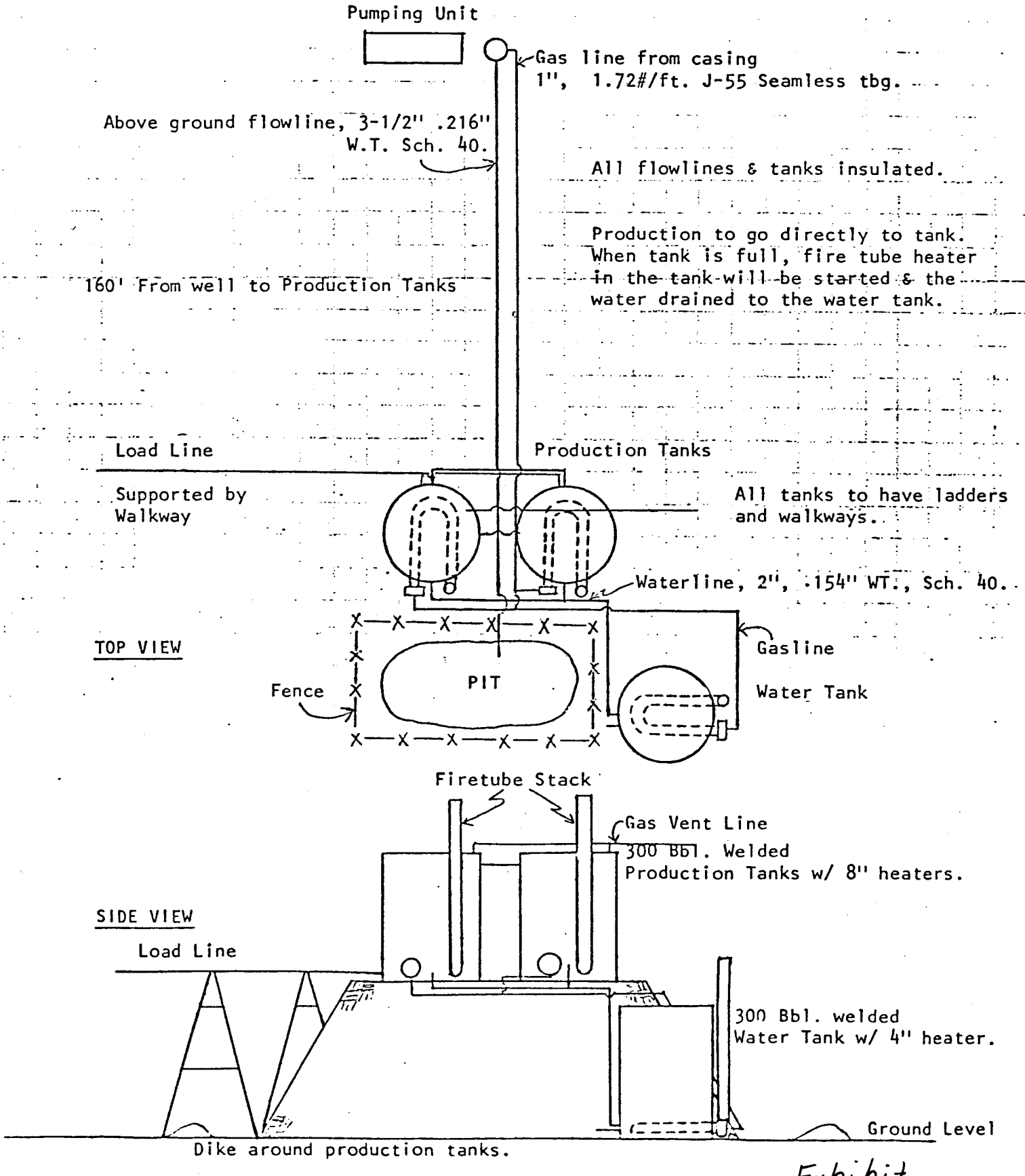
Subject: MAPCO Production Company

Green River Oil Well Production Facilities

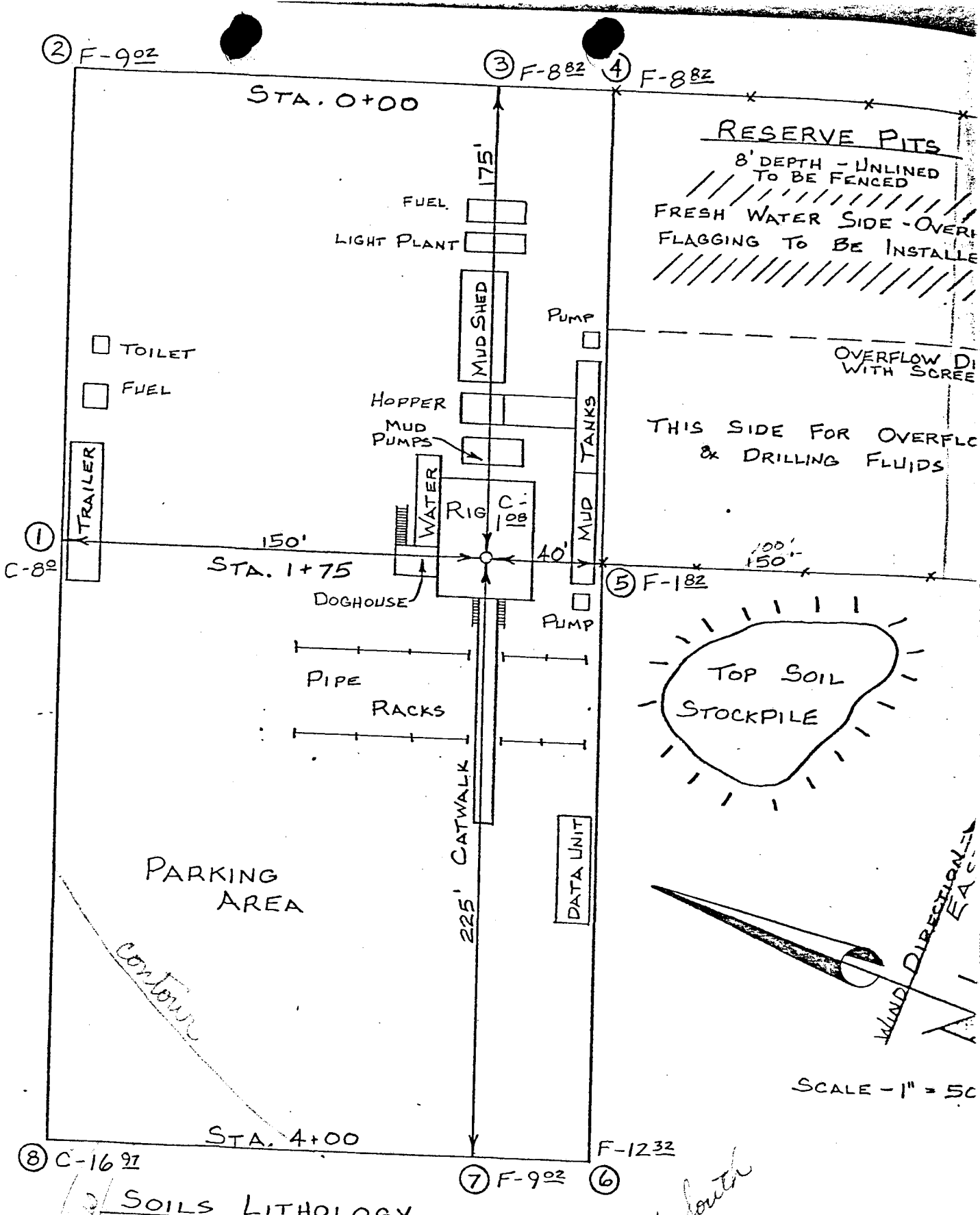
Date

Sheet of

By

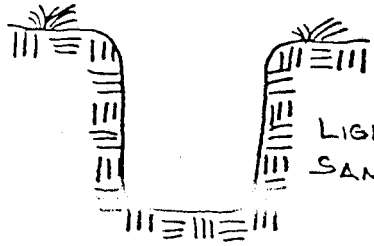


Exhibit



SOILS LITHOLOGY

-No Scale-



LIGHT BROWN SANDY CLAY

50' South

APPROX. YA

CUT - 9,541 C

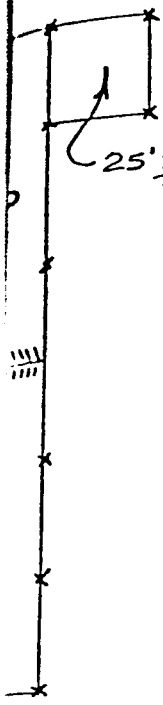
FILL - 8,962 C

Exhibit

MAPCO INC.

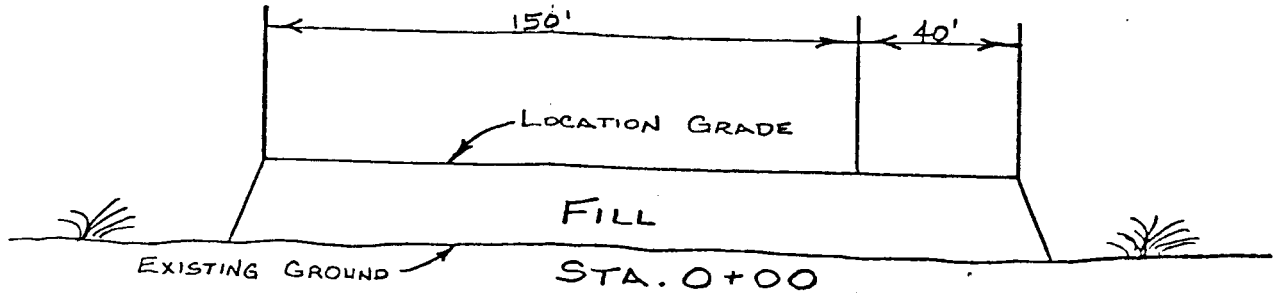
RIVER BEND UNIT #5-12 D

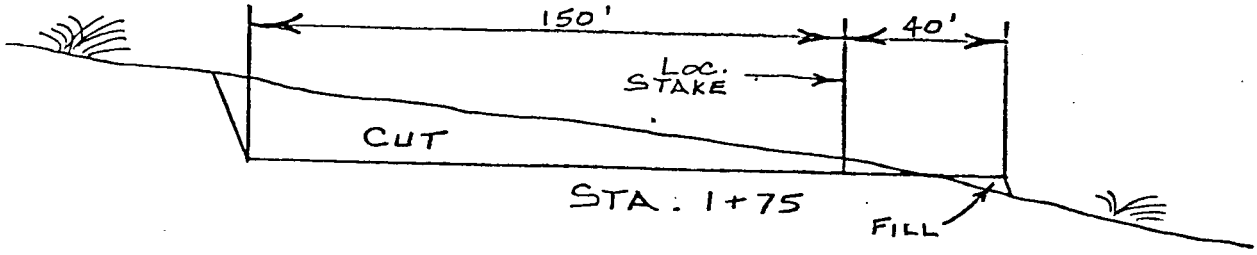
CUT SHEET

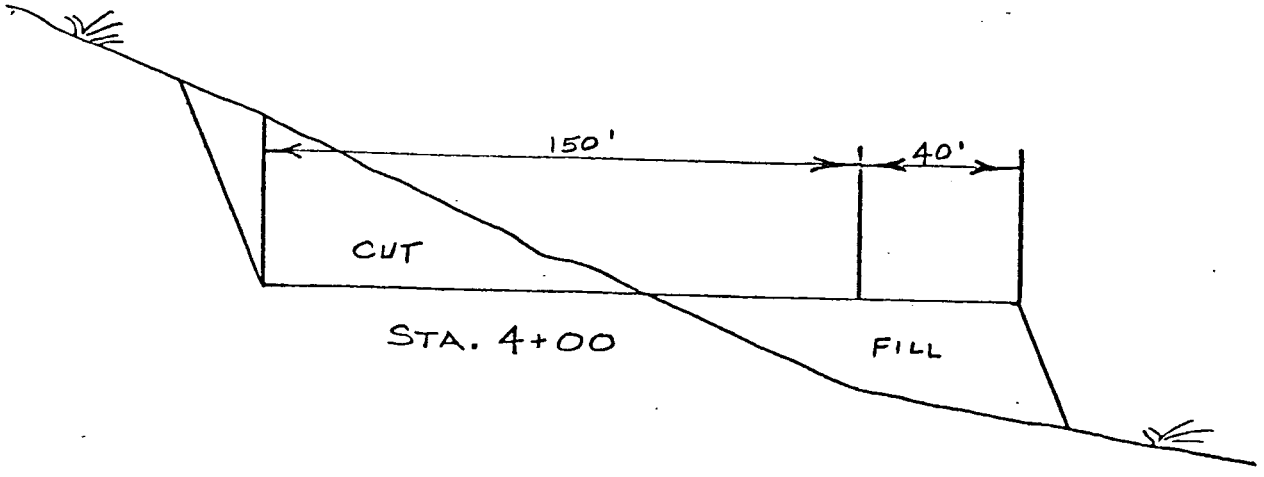


ALL SLOPES ARE 1:1

CROSS SECTIONS



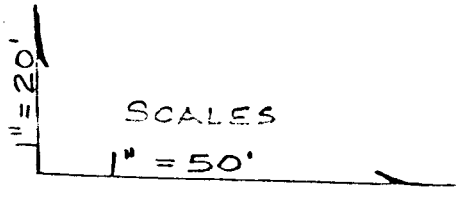




AGES

YDS.

YDS.



Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-013821-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [X]

7. UNIT AGREEMENT NAME: River Bend Unit

8. FARM OR LEASE NAME:

2. NAME OF OPERATOR: MAPCO Production Company

9. WELL NO.: RBU 5-12D

3. ADDRESS OF OPERATOR: 1643 Lewis Ave., Ste. 202, Billings, MT 59102

10. FIELD AND POOL, OR WILDCAT: River Bend

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: SW NW Sec. 12, T. 10 S., R. 18 E., (~~2130'~~ 2180' FNL & 821' FWL)

At proposed prod. zone: Same

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 12, T10S, R18E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 17 miles SW of Ouray, Utah

12. COUNTY OR PARISH: Uintah | 13. STATE: UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 510'

16. NO. OF ACRES IN LEASE: 640.48

17. NO. OF ACRES ASSIGNED TO THIS WELL: 640

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

19. PROPOSED DEPTH: 4885'

20. ROTARY OR CABLE TOOLS: (4) Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 4918' upgraded GL

22. APPROX. DATE WORK WILL START*: August 1982

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# K-55	400'	Cement to surface
7-7/8"	5-1/2"	15.5# K-55	4885'	Cement to surface

1. Drill a 12-1/4" hole with an air rig to 400'. Run 8-5/8", 24# K-55 casing and cement to surface.
2. NU and pressure test BOP stack (see Fig. 1) prior to drilling out below surface pipe.
3. Test pipe rams daily and blind rams as possible.
4. Drill a 7-7/8" hole to 4885' with a salt water mud system. No cores are planned. DST's will be run as needed to evaluate unexpected shows.
5. Run logs. Set 5-1/2",15.5# K55 casing. Release drilling rig. Casing program may be modified to provide added burst strength if needed for frac program.
6. Primary zone of interest is the Green River section.
7. RU completion rig to test in a normal prudent manner, all zones that indicate a potential for economically, recoverable reserves.

(See back for log tops)

This approval is subject to all Conditions of Approval dated July 24, 1980. EA # 1027 - 1027A

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 R. E. Baumann (R. E. Baumann) TITLE Engineering Technician DATE 10/26/81

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE FOR E. W. GUYNN DISTRICT OIL & GAS SUPERVISOR DATE NOV 05 1981

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

NOTICE OF APPROVAL

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

State Oil & Gas

Oil and Gas Operations
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

December 29, 1982

MAPCO Production Company
1643 Lewis Avenue, Suite 202
Billings, Montana 59102

Re: Rescind Application for Permit to Drill
Well No. RBU 5-12D
Section 12, T.10S., R.18E.
Uintah County, Utah
River Bend Unit
Lease U-013821-A

Gentlemen:

The Application for Permit to Drill the referenced well was approved on November 5, 1981. Since that date no known activity has transpired at the approved location. Under District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of the well will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

E. W. Guynn
District Oil & Gas Supervisor

E. W. Guynn
District Oil and Gas Supervisor

bcc: SMA
State O&G
State BLM
~~MMS-Durango~~ VERNAL
Well File
APD Control

WPM/kr

January 5, 1983

Mapco Production Company
1643 Lewis Avenue, Suite 202
Billings, Montana 59102

RE: Application for Permit to Drill
Well No. RBU 5-12D
Sec. 12, T.10S, R.18E
Uintah County, Utah

Gentlemen:

Approval of Application for Permit to Drill the above referenced well is rescinded without prejudice as of the above date in concert with action taken by Minerals Management Service.

If you intend to drill this location at a future date, a new application for permit to drill may be submitted for State approval.

Sincerely,

Norm Stout
Administrative Assistant

NS/as