

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED 6-9-80

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-0148585 INDIAN _____

DRILLING APPROVED: 6-12-80

SPUDDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: * LOCATION ABANDONED 6-1-81

FIELD: WILDCAT 3/26 Undesignated

UNIT: RIVER BEND

COUNTY: UINTAH

WELL NO. RBV 11-24B API NO. 43-047-30722

LOCATION 1888' FT. FROM X (S) LINE. 1907' FT. FROM X (W) LINE. NE SW 1/4 - 1/4 SEC.

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<u>9S</u>	<u>19E</u>	<u>24</u>	<u>MAPCO PRODUCTION CO.</u>				

FILE NOTATIONS

Entered in NID File _____
Entered On S R Sheet _____
Location Map Pinned _____
Card Indexed _____
IWR for State or Fee Land _____

Checked by Chief _____
Copy NID to Field Office _____
Approval Letter _____
Disapproval Letter _____

COMPLETION DATA:

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

Location Inspected _____
Beneficial _____
State of Fee Land _____

LOGS FILED

Drill Log _____

Electric Logs (No.) _____

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____
Lat _____ Mi-L _____ Sonic _____ Others _____

6-15-97 Jck

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR 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 and in accordance with any State requirements.)*
 At surface 1907' FWL & 1888' FSL, NE SW Sec. 24
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 5-1/2 miles South of Ouray, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1888'

16. NO. OF ACRES IN LEASE 360

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 5450' *Wildcat*

19. PROPOSED DEPTH 5450' *Wildcat*

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4673' G.L.

22. APPROX. DATE WORK WILL START* 10-5-80

5. LEASE DESIGNATION AND SERIAL NO. U-0148585

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME River Bend

8. FARM OR LEASE NAME

9. WELL NO. RBU 11-24B

10. FIELD AND POOL, OR WILDCAT *Wildcat*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 24, T9S, R19E

12. COUNTY OR PARISH Uintah

13. STATE Utah

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#, H-40	400'	Cmt to surface
7-7/8"	5-1/2"	14#, K-55	5450'	Cmt to surface

- Drill a 12-1/4" hole with an air rig to 400'. Run 8-5/8", H-40 casing and cement to surface.
- NU and pressure test BOP stack prior to drilling out below surface pipe.
- Test pipe rams daily and blind rams as possible.
- Drill a 7-7/8" hole to 5450' with a fresh water mud system. No cores are planned. DST's will be run as needed to evaluate unexpected shows.
- 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.
- Primary zone of interest is the Green River section.
- All zones indicating potential for economical recoverable reserves will be tested in a normal, prudent manner.

SEE BACK FOR FORMATION LOG TOPS

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 6-12-80
BY: W.J. Minder

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.

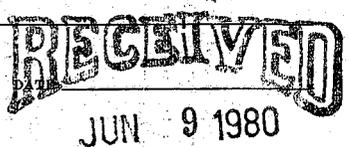
24. SIGNED Richard Baumann TITLE Engineering Technician DATE 6-6-80
 Richard Baumann

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:



*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.

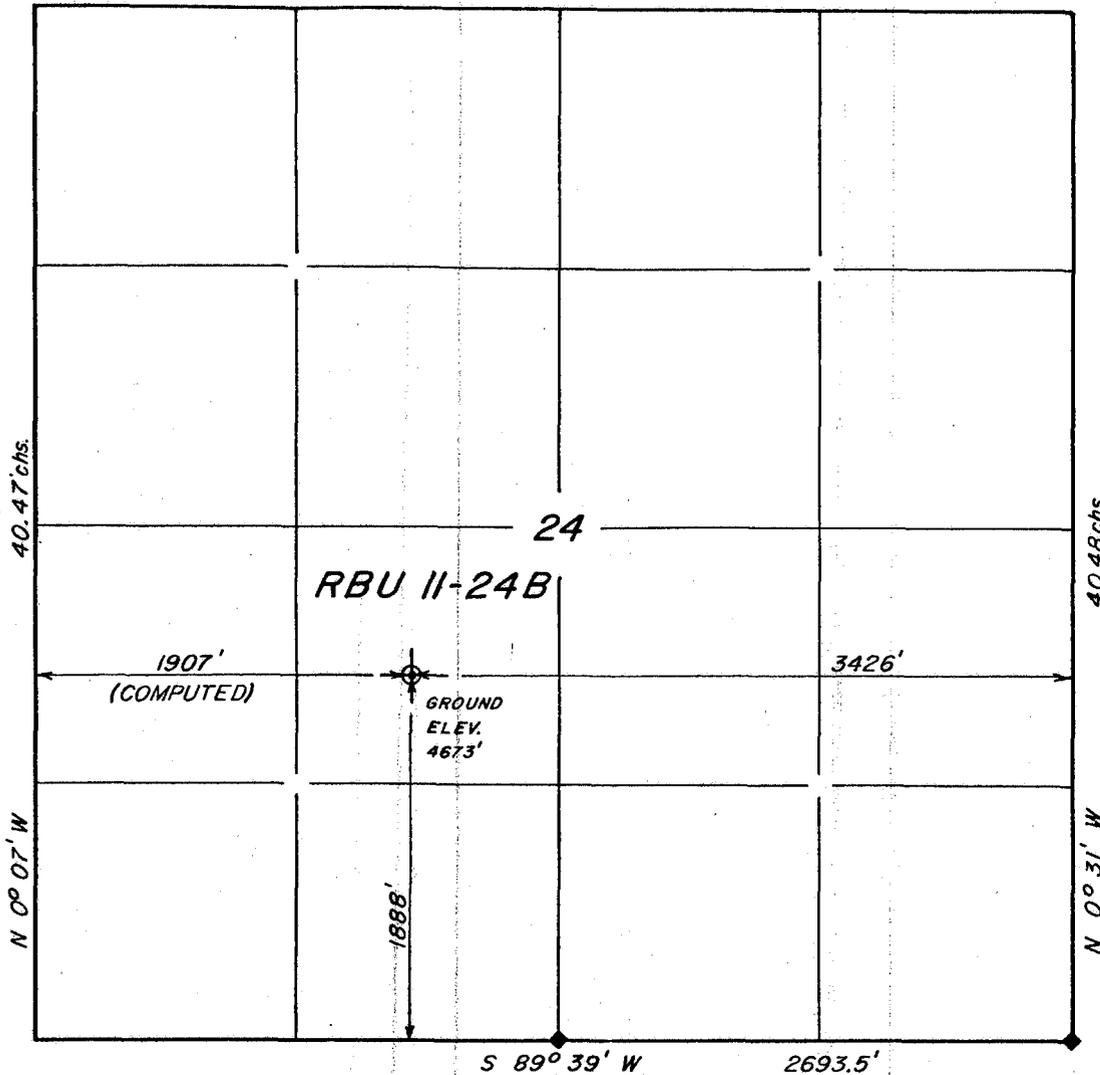
Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

FORMATION LOG TOPS

Uintah	Surface
Green River	1773'
X Marker	2515'
I Zone	4173'
Brown Zone	4803'
Wasatch	5337'
T.D.	5450'

MAPCO, INC.
 WELL LOCATION PLAT
 RBU II-24B

LOCATED IN THE NE¼ OF THE SW¼ OF
 SEC. 24, T9S, R19E, S. L. B. & M.



SCALE: 1"=1000'

Exhibit A

LEGEND & NOTES

- Found brass cap on pipe monuments used for this survey.
- The General Land Office plat was used for reference and calculations.

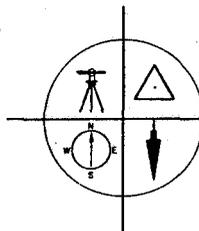
SURVEYOR'S CERTIFICATE

I hereby certify that this plat was prepared from field notes of an actual survey performed by me, during which the shown monuments were found or established.

Jerry D. Allred
 Jerry D. Allred, Registered Land Surveyor, Cert. NO. 3817 (Utah)

79-128-034

13 May 1980



JERRY D. ALLRED & ASSOCIATES
 Surveying & Engineering Consultants

121 North Center Street
 P.O. Drawer C
 DUCHESNE, UTAH 84021
 (801) 738-5352

T. 9 S.
R. 19 E

R.B.U.
11-24 B.

FED 7-25B

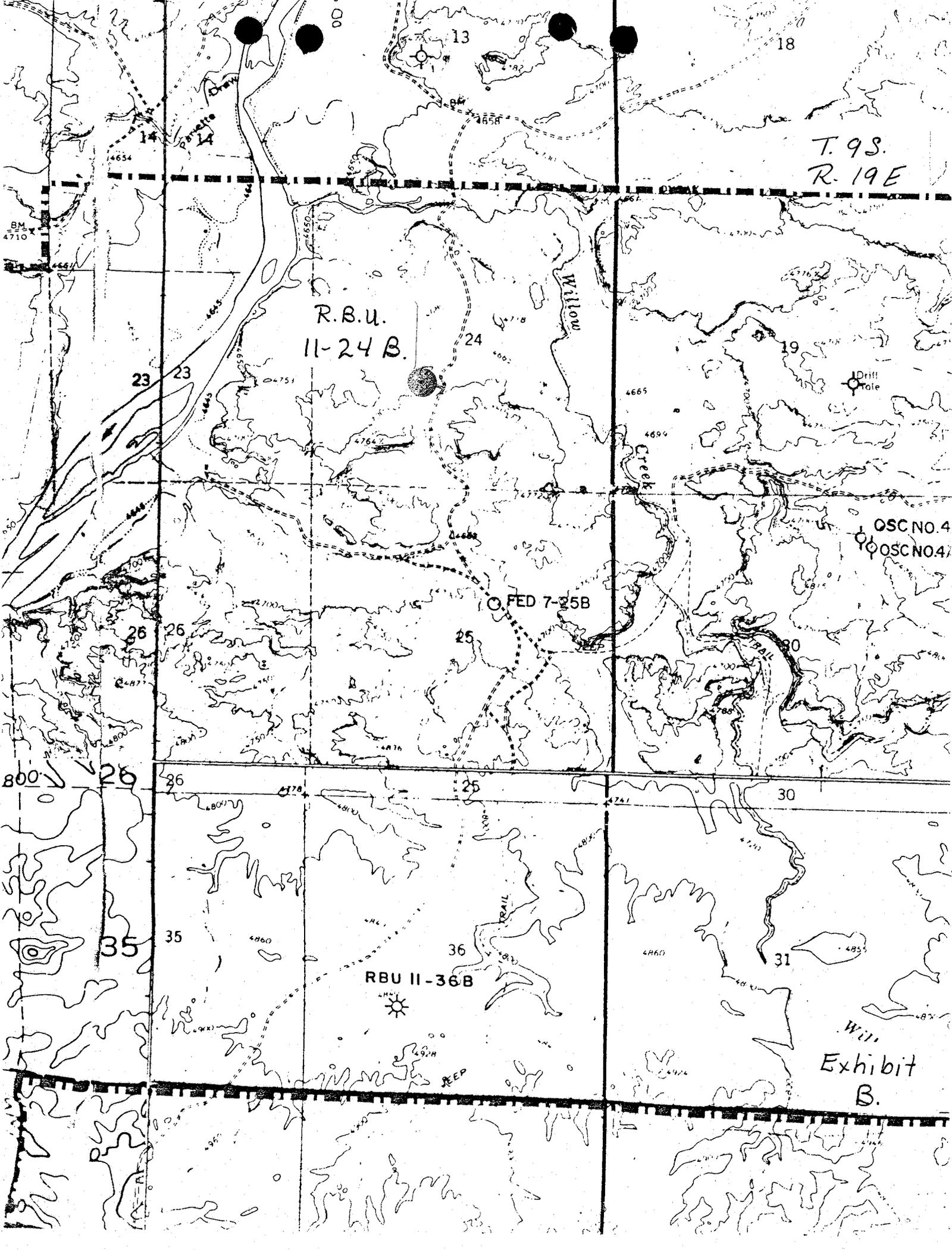
OSC NO. 4
OSC NO. 4

RBU II-36B

Will.
Exhibit
B.

BM
4710

800



R.B.U. 11-24B

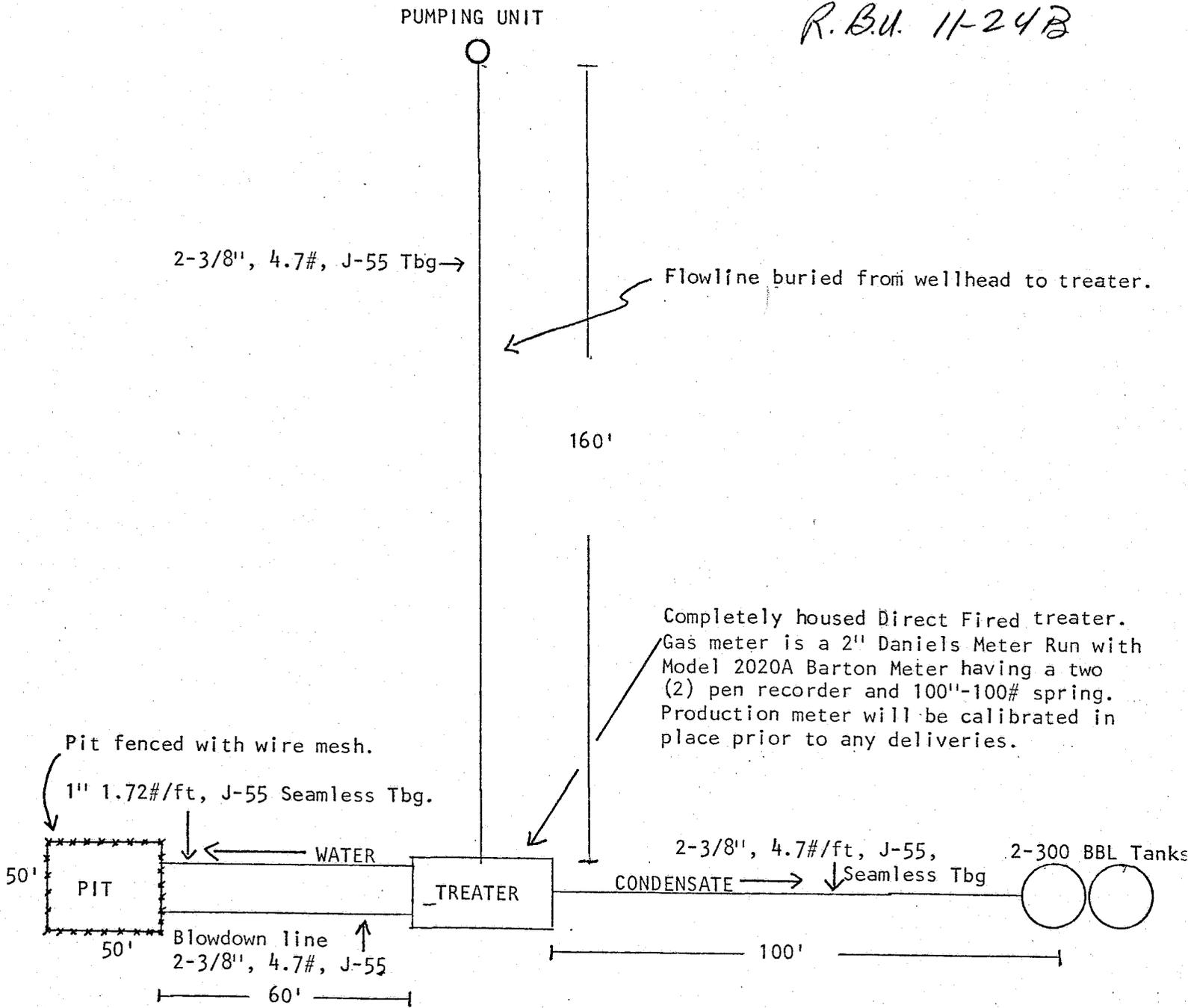


Exhibit
C.

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

Attached to Form 9-331C

Company: MAPCO PRODUCTION COMPANY

Well: RBU 11-24B

Well Location: 1907' FWL & 1888' FSL, NESW

Section 24, T9S, R19E

County: Uintah

State: Utah

1. Geologic Surface Formation

UINTAH

2. Estimated Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Uintah	Surface
Green River	1773'
Wasatch	5337'

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

<u>Formation</u>	<u>Depth</u>	<u>Remarks</u>
X Marker	2515'	Oil zone
I Zone	4173'	Oil zone
Brown Zone	4803'	Oil zone

4. The Proposed Casing Program

<u>SIZE OF CASING</u>	<u>WEIGHT & GRADE</u>	<u>SETTING DEPTH</u>	<u>QUANTITY OF CEMENT</u>
8-5/8"	24#, H-40	400'	Cmt to surface
5-1/2"	14#, K-55	5450'	Cmt 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) SP-Dual Induction-Laterolog 8,
- 2) FDC-CNL-GR,
- 3) Sonic Log and F-log overlay.

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

9. Any Anticipated Abnormal Pressures or Temperatures Expected

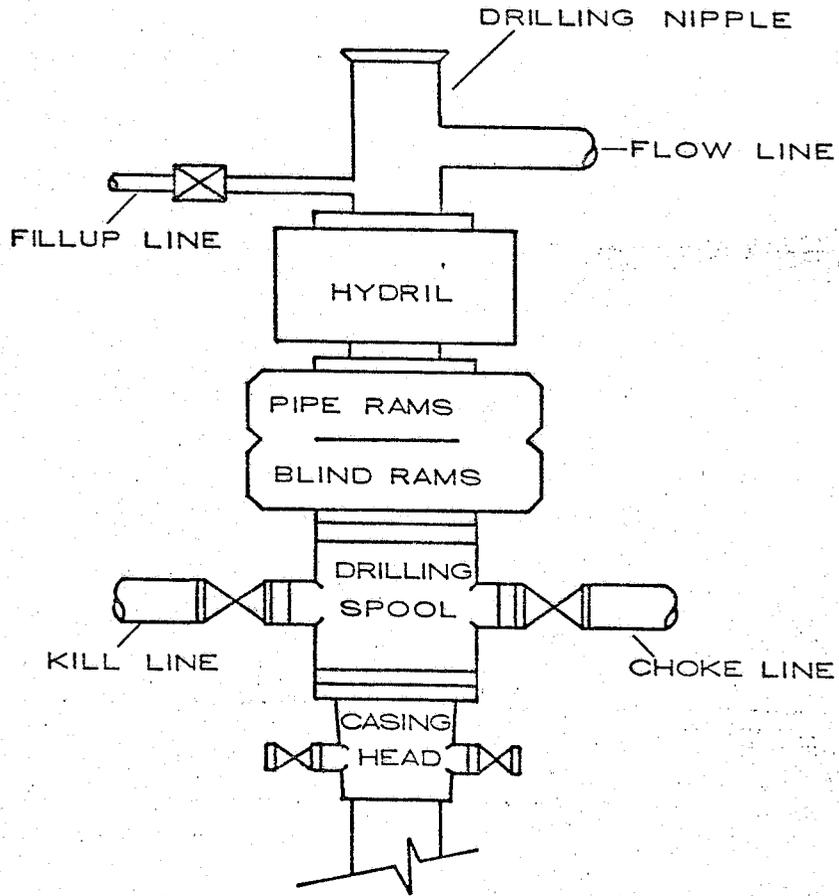
No abnormal pressures are anticipated nor is the area known for abnormal temperatures. The formations to be penetrated do not contain H₂S gas.

10. The Anticipated Starting Date and Duration of the Operations

Starting Date: 10-5-80

Duration: 15 days

BOP STACK



CHOKER MANIFOLD

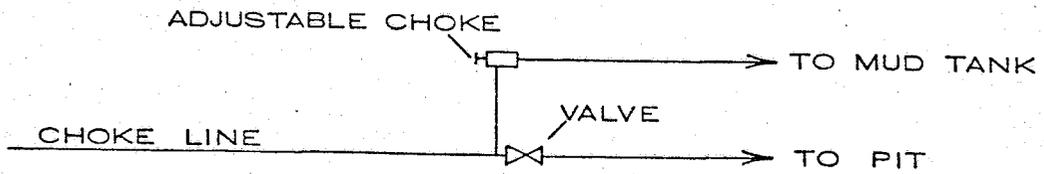


FIGURE 1

MULTI-POINT REQUIREMENTS TO ACCOMPANY APD

Attached to Form 9-331C

COMPANY: MAPCO PRODUCTION COMPANY

WELL: RBU 11-24B

WELL LOCATION: 1907' FWL & 1888' FSL, NE SW

Section 24, T9S, R19E

County: Uintah

State: Utah

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 400' will be needed to reach the location from the existing road as shown in Exhibit B.
- D. All existing roads are shown on Exhibit 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: None

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: None
7. Shut-in wells: One (Federal 7-25B)
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: None
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. Rehabilitation, 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 D.

- A. Water will be hauled by truck from Ouray, Utah.
- B. No pipelines are anticipated. Hauling will be on the road(s) shown in Exhibit D.
- 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 SE side of the area as shown. The access road will be from the SE. 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 buried 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 location is on a low area with low hills north and south, and relatively open areas west and east.

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.

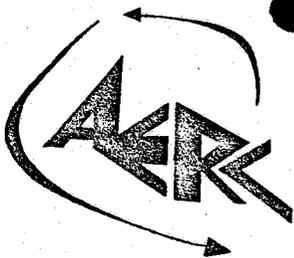
2. Type of surface use activity: Primary purpose is grazing domestic livestock.

Surface ownership of all involved lands: BLM

3. Proximity of usable water (Shown on Exhibit D):

Occupied dwellings (if any, shown on Exhibit B):

Archaeological or historical sites (if any, shown on Exhibit B):
An Archaeological study was conducted by A.E.R.C. of Bountiful, Utah.
No archaeological or historical sites were found (See Exhibit F).



ARCHEOLOGICAL - ENVIRONMENTAL RESEARCH CORPORATION

588 West 800 South Bountiful, Utah 84010
Tel: (801) 292-7061 or 292-9668

May 23, 1980

Subject: Archeological Reconnaissance of Drill Locations
in the Green River/River Bend Locality of Uintah
County, Utah

Project: Mapco, Inc., 1980 Drilling Exploration in the
Uintah Basin - Locations: RBU 4-11D, 5-11D,
5-12D, 11-24B, 7-36B, 7-3E, 11-22E, 15-23F

Project No.: MPC-80-4

Permit: U.S. Dept. of Interior - 80-Ut-069

To: ✓ Mr. Gary Evertz, Mapco, Inc., Alpine Executive
Center, 1643 Lewis Avenue, Suite 202, Billings,
Montana 59102

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

Mr. Ronald S. Trogstad, Acting District Manager,
Bureau of Land Management, 17 South 500 East,
Vernal, Utah 84078

Mr. Ralph Heft, Manager, Diamond Mountain Resource
Area, Bureau of Land Management, P.O. Box F,
Vernal, Utah 84078

Mr. Dean Evans, Manager, Book Cliffs Resource
Area, Bureau of Land Management, Vernal District
Office, 170 South 500 East, Vernal, Utah 84078

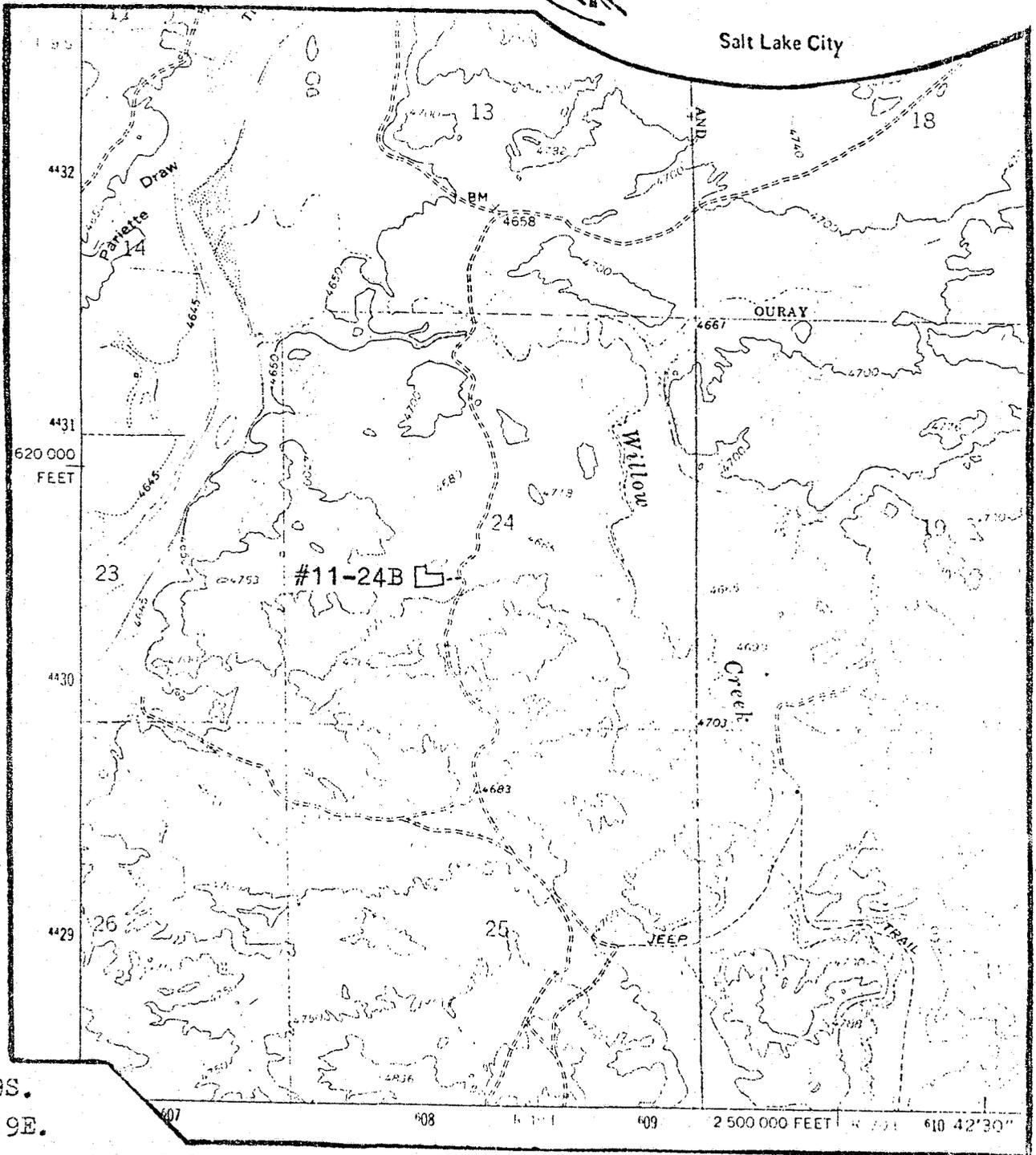
Mr. E. W. Guynn, Office of District Engineer,
US. Geological Survey, Oil & Gas Operations, Con-
servation Division, 2000 Administration Bldg.,
1745 West 1700 South, Salt Lake City, Utah 84104

Mr. Richard Fike, BIM Archeologist, Bureau of
Land Management, University Club Bldg., 136 East
South Temple, Salt Lake City, Utah 84111

Info: Dr. David Madsen, State Archeologist, Antiquities
Section, 307 W. 200 S., Suite 1000, Salt Lake City,
Utah 84101

Exhibit F

10. (continued) Also, a ten acre area was examined for Well RBU 4-11D which had not been previously staked (see map 6). The perimeter was flagged in yellow.
13. (continued) For this reason, the entire surface area below the road (south) to the wash was examined, from the point eastward where the road crosses the wash to the drill location, in order to possibly re-route the road away from the rock shelter area. A sparse surface quarry AERC 431N/2 (42Un898) was discovered on the access road and the perimeter was flagged in blue.
17. (continued) the easy accessibility after the road is constructed.
3) AERC also recommends monitoring of grading operations near site 42Un898 to improve the existing road. 4) Also that all vehicular traffic, personnel movement and construction be confined to the locations examined and to access roads leading into these locations. 5) And that all personnel refrain from collecting individual artifacts or from disturbing any cultural resources in the area. 6) Also, that a qualified archeologist be consulted should cultural remains from subsurface deposits be exposed during construction work or if the need arises to relocate or otherwise alter the construction area.



T. 9S.
R. 19E.

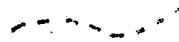
Meridian: Salt Lake B. & M.

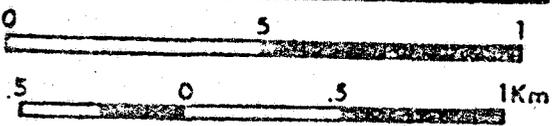
Quad:
Ouray, Utah
7.5 Minute
USGS



Project: MPC-80-4
Series: Uintah Basin
Date: 5/16/80

Map 5
MAPCO, RIVER BEND
WELL LOCATION #11-24B
LOCATED IN THE
WILLOW CREEK/GREEN RIVER
LOCALITY OF
UINTAH COUNTY, UTAH

Legend:
Well Location 
Access Route 



Scale

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

USUAL ENVIRONMENTAL ASSESSMENT

Date: July 18, 1980

Operator: Mapco Production Co., Project or Well Name and No.: 11-24B

Location: 1907' FWL & 1888' FSL Section: 24 Township: 9S Range: 19E

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

Lease No.: U-0148585 Permit No.: N/A

Joint Field Inspection Date: July 16, 1980

Prepared By: Craig Hansen

Field Inspection Participants, Titles and Organizations:

Craig Hansen	U.S.G.S. - Vernal, Utah
Cory Bodman	BLM - Vernal, Utah
Thomas Todd	Mapco Production Company
Paul Reynolds	Mapco Production Company
Don Holliman	Mapco Production Company
Darwin Kulland	Mapco Production Company

Related Environmental Documents:

(1) Book Cliff Resource Area

Drill pad 190' x 400'
Reserve pit 100' x 100'
New access road 18' x 400'
 2.2 acres disturbed area
 conditions of approval p. 6 (1-4)
 Administratively complete?

DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah

County: Uintah

1907' FWL, 1888' FSL, NE 1/4 SW 1/4

Section 24, T 9S, R 19E, S L B & M.

2. Surface Ownership Location: Public.

Access Road: Public.

Status of
Reclamation Agreements: Not Applicable.

3. Dates APD Filed: June 9, 1980 .

APD Technically Complete: June 25, 1980.

APD Administratively Complete: June 9, 1980.

4. Project Time Frame

Starting Date: October 5, 1980 .

Duration of Drilling activities: 15 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:

None known.

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 100' would be constructed. Approximately 400 feet of new access road, averaging 18' driving surface, would be constructed from a maintained road. 2.2 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to 30'.
2. Drilling.
3. Waste disposal.
4. Traffic.
5. Water requirements will be obtained from proper authorities.
6. Completion.
7. Production.
8. Transportation of hydrocarbons.

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

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: Uintah Basin: Province.

The area consists of weathered sandstone and shale and buttes and bluffs of the Uinta formation. These buttes and bluffs are relatively flat on top with steep weathered sides. The valleys that surround the buttes and bluffs slope gently to rugged dissected dendritic drainage patterns. This type of drainage is usually non-perennial in nature.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: Possible oil shale in Green River and Uinta formation. Possible small saline pods in Green River formation. Small local unproducibile Gilsonite veins are present on the location.

Information Source: Field Observation.

2. Hazards:

a. Land Stability: The surface would remain relatively stable until soil became saturated then heaving, sluffing and heavy erosion would take place due to the saturation of the clays and shales at the surface.

Information Source: Field Observation.

b. Subsidence: Withdrawal of fluids could cause subsidence, however the composition of the producing zones will reduce this hazard therefore none is anticipated.

Information Source: Environmental Geology, "E.A. Teller".

c. Seismicity: The area is considered a minor risk - no preventive measures or plans have been preseted by the operator.

Information Source: Geologic Atlas of the Rocky Mountain Region.

d. High Pressure Zones/Blowout Prevention: No high pressures are anticipated above the Wasatch, although slight over pressuring may be expected in the upper Wasatch formation.

Information Source: APD, Mineral Evaluation Report.

B. Soils:

1. Soil Character: Soil is deep mildly to strongly alkaline. The surface layers are pale brown and light gray loams, silty clay loams and clays. Sand and gravels are intermixed with clays and silts in fulvial washes.

Information Source: "Soils of Utah" Wilson, Field Observation.

2. Erosion/Sedimentation: This would increase due to the disruption of vegetation and loosely compacted "A & B" soil horizons of clay and shale. Clay and shale leave a higher rate of erosion due to their grain size and compaction capabilities. Proper construction practices would reduce this impact.

Information Source: "Fluvial Processes in Geomorphology" by Luna B. Leopold, M. Gordon Wolman and John P. Miller, 1964. "Soils of Utah", Wilson.

C. Air Quality: The area is in a Class II containment. There would be a minor increase in air pollution due to emissions from construction and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads.

Information Source: Utah State Health Department/Air Quality Bureau in Salt Lake City, Utah.

D. Noise Levels: Noise from the drilling operation may temporarily disturb wildlife and people in the area. 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 predrilling levels.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: The location drains northwest by a shallow non-perennial drainage to the Green River the major tributary in the area.

Information Source: Field Observation, APD.

b. Ground Waters: Ground water is anticipated in the Birds-eye member of the Green River formation and other less productive aquifers of the Green River formation.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: No contamination to surface water is anticipated by this drilling program. Proper construction of location and lining pits where needed would insure safe operations.

Information Source: Field Observation.

b. Ground Waters: Some minor pollutions of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. Potential communication, contamination and commingling of formations via the wellbore would be prevented by an adequate response drilling fluid program. The depths of fresh water formations are listed in the 10-point Subsurface Protection Plan.

Information Source: 10-Point Plan.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the Formal comments received from the BLM - Vernal on July 24, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Shadscale, greasewood, rabbitbrush, halogetin and annual weeds exist on or near the location.

Information Source: Field Observation.

3. Fauna: Deer, antelope, small rodents birds and reptiles, foxes, coyotes and domestic livestock exist on or near the location.

Information Source: Field Observation.

G. Land Uses

1. General: The area is used primarily for oil and gas operations although grazing and recreation takes place throughout the year.

Information Source: APD, Field Observation, SMA Representative.

2. Affected Floodplains and/or Wetlands: N/A.

3. Roadless/Wilderness Area: N/A.

H. Aesthetics: Operations do not blend in with natural surroundings and could present a visual impact. Painting any permanent equipment a color to blend with the surrounding environment would lessen visual impacts.

Information Source: Field Observation.

I. Socioeconomics: Drilling and production operations are small in size but contribute substantial financial income to residents of the surrounding area. Local people are used whenever possible. This allows greater economic development of the area.

Information Source: C.M. Hansen, resident of Uintah Basin.

J. Cultural Resources Determination: Based on the formal comments received from the BLM - Vernal on July 24, 1980, we determine that there would be no effect on cultural resources subject to this action.

Information Source: SMA concurrence.

K. Adequacy of Restoration Plans: Meet minimum requirements of NTL-6. The erodibility of area soils could hamper restoration which should commence immediately after drilling or completion. Restoration to pre-drilling conditions could be difficult. The areas short growing season and limited precipitation govern restoration success.

Information Source: Field Observation.

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 2.2 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 the 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.

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 Lease Stipulations. *None*
2. See attached BLM Stipulations.
3. Reserve pits will be shortened to reduce impact on non-perennial drainages in the area.
4. A small 1' high berm will be placed on the south and east sides of the location to reduce erosion to the pad.

Controversial Issues and Conservation Division Response:

No controversial issues were found by the writer.

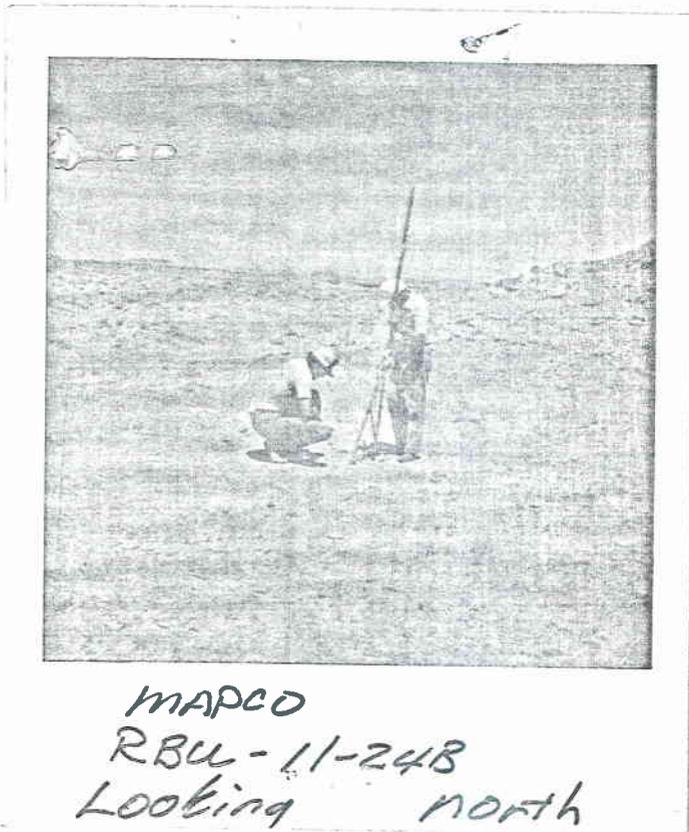
We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

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).

W. P. Martin FOR E. W. GUYNN
DISTRICT ENGINEER
Signature & Title of Approving Official

SEP 17 1980
Date





United States Department of the Interior

IN REPLY REFER TO

T & R
U-802

BUREAU OF LAND MANAGEMENT

Vernal District Office
170 South 500 East
Vernal, Utah 84078

July 21, 1980

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

Re: Mapco Production Co.
River Bend Unit
Well # 15-23F Sec. 23,
T10S, R20E. Well #7-3E
Sec. 3, T10S, R19E,
Well #11-24B Sec. 24,
T9S, R19E.

Dear Mr. Guynn:

A joint field examination was conducted on July 16, 1980, on the above referenced wells and access roads. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construct and maintenance of roads, rehabilitation of disturbed areas and construction of pipeline routes 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. Travelling off access road rights-of-way will not be allowed. The maximum width of access road will be 30 feet total disturbed area, except where backslope and fills require additional area. Turn-outs will not be required.
3. The BLM will be contacted at least 24 hours prior to any construction activities.
4. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding and restoration requirements.



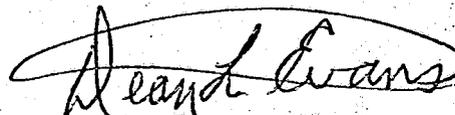
5. Burn pits will not be constructed. There will be no burning or burying of trash or garbage at the well sites. Refuse must be contained and hauled to an approved disposal site.
6. The reserve pits will be fenced on three sides when drilling operations commence and fenced on the fourth side upon removal of the drilling rig.
7. Topsoil will be stock piled as addressed in the applicants 13 point plan, with the following amounts removed for topsoil:
 - Well #15-23F - Top 2-4 inches of soil
 - Well #7-3E - Top 2-3 inches of soil
 - Well #11-24B - Top 2-3 inches of soil
8. The dimension of the reserve pits at well #7-3E were changed from 175 ft by 187 ft. by 113 ft. to 175 ft. by 150 ft. by 88 ft.
9. The pad location for well #15-23F was moved 200 feet to the S.E. and the pad layout was rotated 180°.

An archaeological study was conducted by Archeological Environmental Research Corporation of Salt Lake City. Provisions were made to avoid all reported sites; thus no reported sites will be disturbed.

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

The BLM representative will be Ron Rogers, (801-789-1362).

Sincerely,



Dean L. Evans
Area Manager
Bookcliffs Resource Area

cc: USGS, Vernal

FROM : DISTRICT GEOLOGIST, U.S. GEOLOGICAL SURVEY, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-0148585

OPERATOR: Mapco

WELL NO. R3U 11-24 B

LOCATION: SW $\frac{1}{2}$ NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec. 24, T. 9S., R. 19E., S4M

Uintah County, Utah

1. Stratigraphy: Operator's estimated top for the Green River appears too deep according to my data.

Uintah	surface
Green River	~1075'
Wasatch	5335'
TD	5450'

2. Fresh Water:

Probable in the Uintah. Also, the Green River has two aquifers whose waters should be protected from mixing.

Birds Nest aquifer (~1575') & Douglas Creek (~2375').

3. Leasable Minerals:

Oil Shale in the Green River.

Mahogany zone should occur at ~2375' depth.

Land is also valuable for Gilsonite. There are several mapped veins which occur within 1 mile of this location.

4. Additional Logs Needed: Adequate.

5. Potential Geologic Hazards: Possible loss of circulation in leached zones below rich oil shale beds.

6. References and Remarks:

Signature: Gregory W Wood

Date: 6-30-80



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

Well # RBU 11-24
24-9S-19E
Mapco Prod.
Uintah County
EB #

RECEIVED

Mr. Peter Rutledge
Area Oil Shale Supervisor
Area Oil Shale Office
131 North Sixth, Suite 300
Grand Junction, Colorado 81501
OFFICE OF
AREA OIL SHALE SUPERVISOR
U.S. G.S.

Dear Mr. Rutledge,

The Office of Oil and Gas Operations, Conservation Division, received the attached Application for Permit to Drill, Deepen, or Plug Back (Form 9-331C).

Please review this proposal for any conflict with any of the resources in the oil shale tracts and withdrawal areas. If needed, set forth the stipulations you determine necessary for adequate protection. Please use the following space for your response (if there is none, so state), together with date and initials of person responsible and return to the Office of Oil and Gas Operations.

U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Mapco 11-24 B
Sec. 24, T. 9 S., R. 19 E.

June 27, 1980

Proposed casing and cementing program indicates that casing will be set with cement circulated to the surface. This program is acceptable for protection of the Green River oil shale section and aquifers.

Ray Brady
Geologist

Morse
2095-19E

Grey

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-0148585 Well No. RBU-11-24B

1. The location appears potentially valuable for:

strip mining*

underground mining** *oil shale - Gilsomite coal occur locally.*

has no known potential.

2. The proposed area is

under a Federal lease for _____ under the jurisdiction of this office.

not under a Federal lease under the jurisdiction of this office.

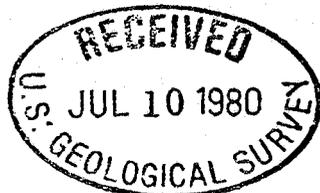
Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.



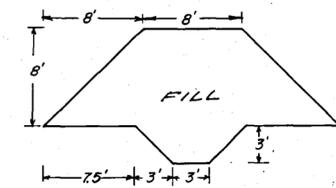
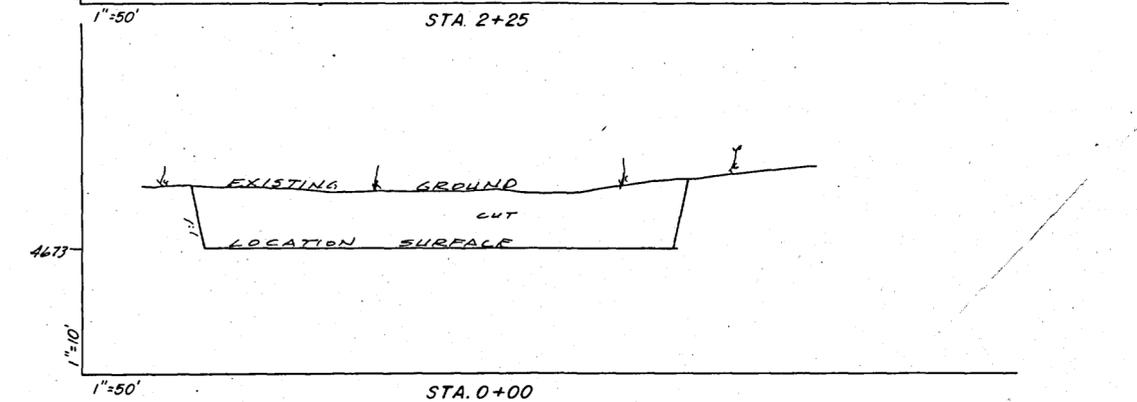
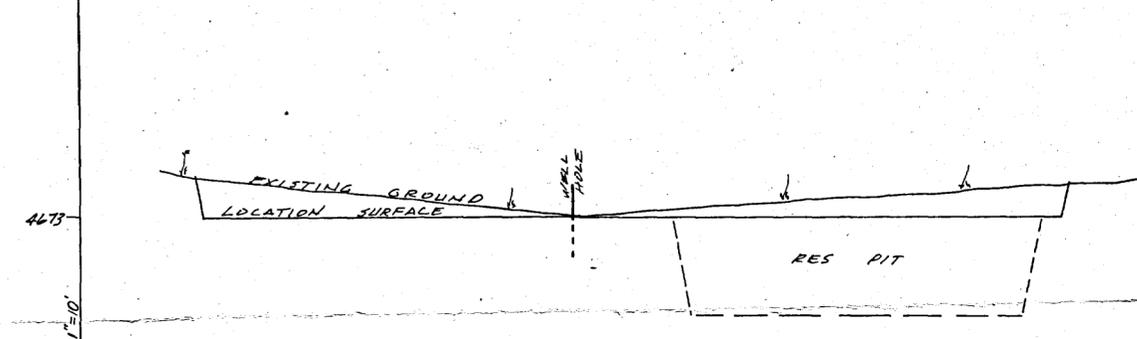
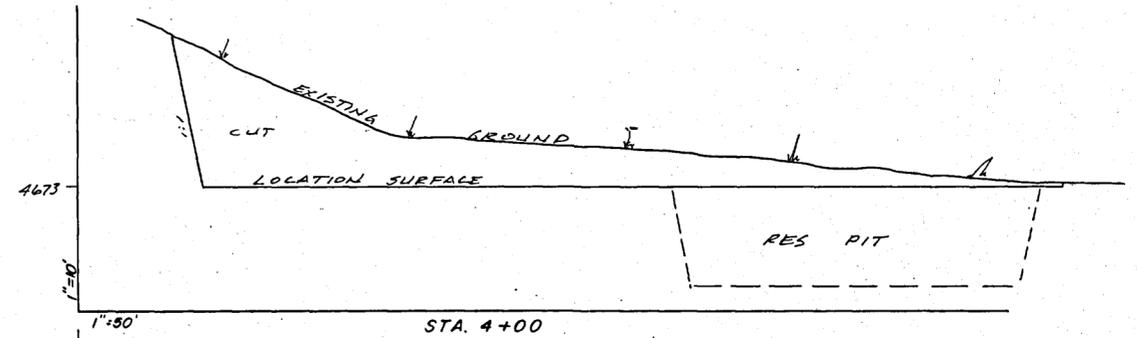
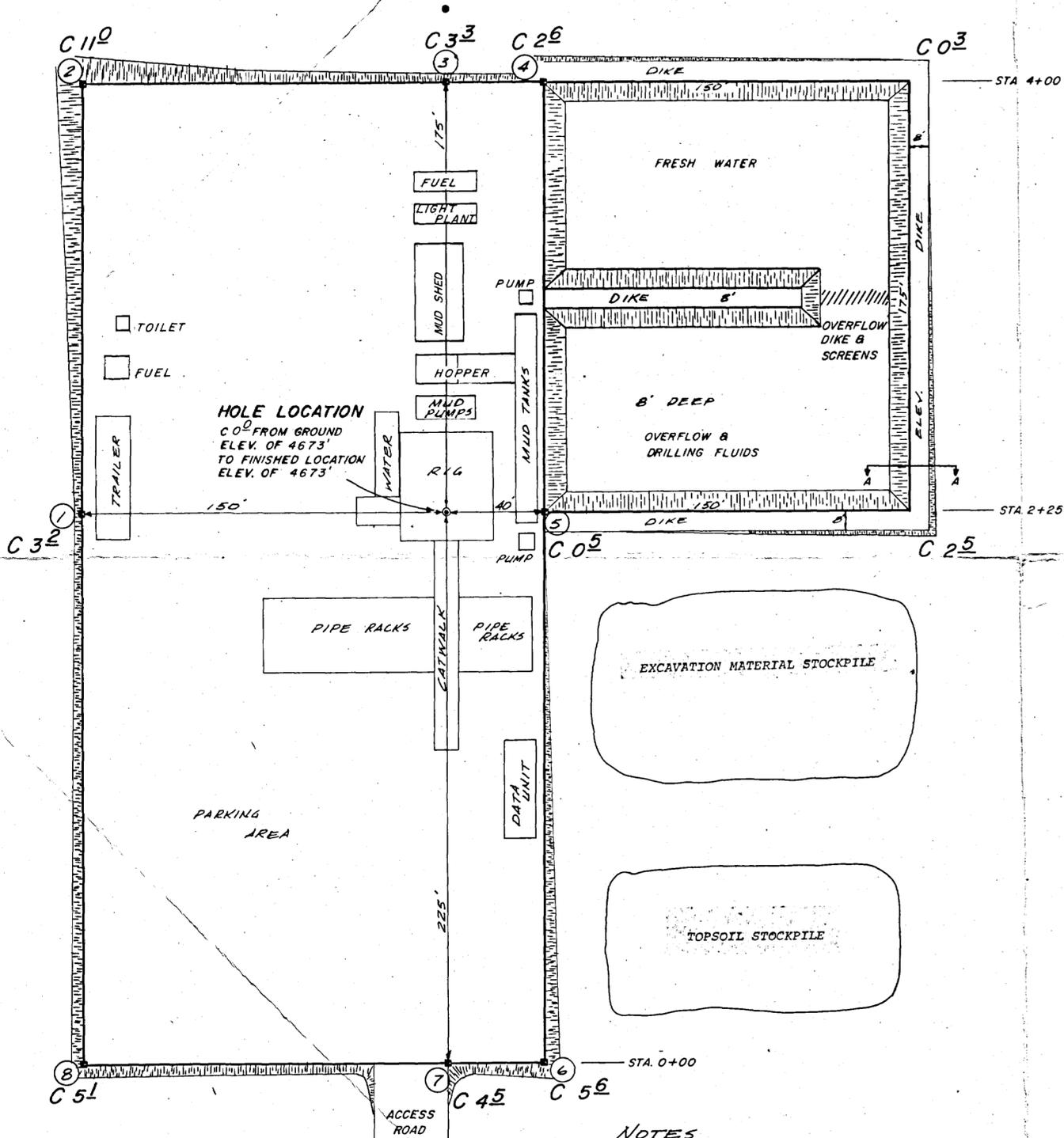
Signed Allen J. Vance

MAPCO, INC.

RBU 11-24B

LAYOUT PLAT

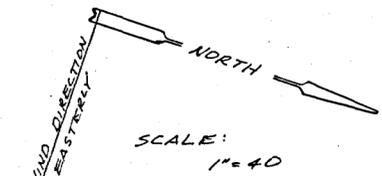
LOCATED IN THE NE 1/4 OF THE SW 1/4 OF SECTION 24, T9S, R19E, S.L.B. & M.



APPROXIMATE QUANTITIES

CUT:	19,280	CU. YDS
FILL:	9,400	CU. YDS

NOTES
 THE LOCATION IS LOCATED ON A LOW AREA WITH LOW HILLS NORTH AND SOUTH AND RELATIVELY OPEN AREAS WEST AND EAST.
 SOIL IS LIGHT BROWN SANDY CLAY & SANDSTONE.



KEYWAY A-A

Exhibit E

JERRY D. ALLRED & ASSOCIATES
 Surveying & Engineering Consultants
 121 North Center Street
 P.O. Drawer C
 DUCHESNE, UTAH 84021
 (801) 738-5352

** FILE NOTATIONS **

DATE: June 9, 1980

OPERATOR: MAPCO Production Co. Alpine Executive Ctr.

WELL NO: RBU 11-24B

Location: Sec. 24 T. 9S R. 19E County: Wintah

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-047-30722

CHECKED BY:

Petroleum Engineer: M.S. Minder 6-12-80

Director: _____

Administrative Aide: _____

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

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

Lease Designation 3rd Unit

Plotted on Map

Approval Letter Written

Hot Line

P.I.

Unit

June 12, 1980

Mapco Production Company
Alpine Executive Center
1643 Lewis Ave., Suite 202
Billings, Montana 59102

Re: RBU 4-11D, Sec. 11, T. 10S, R 18 E., Uintah County, Utah
RBU 15-23F, Sec 23, T. 10S, R 20 E., Uintah County, Utah
RBU 7-3E, Sec 3, T. 10S, R 19 E., Uintah County, Utah
RBU 7-36B, Sec 36, T. 9S, R 19 E., Uintah County, Utah
RBU 11-24B, Sec 24, T. 9S, R 19 E., Uintah County, Utah
RBU 11X-36B, Sec 36, 9S, R 19 E., Uintah County, Utah

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

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

MICHAEL T. Minder - Petroleum Engineer
Office: 533-5771
Home: 876-3001

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

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

The API numbers assigned to these wells are RBU 4-11D: 43-047-30718, RBU 15-23F: 43-047-30719, RBU 7-3E: 43-047-30720, RBU 7-36B: 43-047-30721, RBU 11-24B: 43-047-30722, RBU 11X-36B: 43-047-30723.

Sincerely,
DIVISION OF OIL AND GAS

Michael T. Minder
Petroleum Engineer

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, Montana 59102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1907' FWL & 1888' FSL, NE SW
AT TOP PROD. INTERVAL: Sec 24
AT TOTAL DEPTH: SAME

5. LEASE
U-0148585

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
River Bend Unit

8. FARM OR LEASE NAME

9. WELL NO.
RBU 11-24B

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 24, T9S, R19E

12. COUNTY OR PARISH Uintah 13. STATE Utah

14. API NO.
43-047-30722

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4673' G.L.

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

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

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

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

The RBU 11-24B is in the 1981 drilling program.

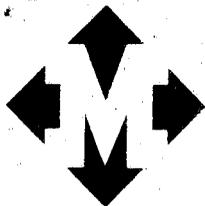
Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED Richard Baumann TITLE Engineering Tech. DATE 12-12-80

(This space for Federal or State office use)

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



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

OIL, GAS & MINING
DIVISION OF

JUN 5 1981

RECEIVED

Attn: Debbie

Dear Debbie;

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

<u>Well Name</u>	<u>Location</u>	<u>Status</u>
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	" " "

June 1, 1981
Page 2

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

RECEIVED

JUN 2 1981

DIVISION OF
OIL, GAS & MINING

Conservation Division
444 Administration Building
1745 West 1750 South
Salt Lake City, Utah 84154-3604

November 10, 1981

DAECO Production Company
Alpine Executive Center
1643 Lewis Ave., Suite 202
Billings, Montana 59102

Re: Return application for
Permit to Drill
Well No. 11-246
Section 24, T. 30, R. 19E.
Utah County, Utah
Lease No. U-0144585

Well No. 11-152
Section 15, T. 10S., R. 19E.
Utah County, Utah
Lease No. U-013429-6

Gentlemen:

The application for Permit to Drill the referenced wells were approved October 30, 1980. Since that date no known activity has transpired at the approved locations. 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 resubmitting the approval of the referenced applications without prejudice. If you intend to drill at these locations 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 these drill sites. Any surface disturbance associated with the approved locations of these wells is to be rehabilitated. A schedule for this rehabilitation must, then be submitted. Your cooperation in this matter is appreciated.

Sincerely,

(ORIG. SGD. W. P. MARTENS)
Sol W. Guyan
District Oil and Gas Supervisor

cc: ECh, CR, O&G, Denver
EIM-Vernal
State Office (O&G)
State Office (EIM)
O&G-Vernal
Well File
APD Control