

RECEIVED

JUL 10 1970

COLO. OIL & GAS CONS. COMM

CONTINENTAL OIL COMPANY

13 Point Surface Use Plan

for

Well Location

South McCallum, Conoco Federal 22 No. 2

Located In

Section 22, T9N, R78W, 6th P.M.

Jackson County, Colorado



00222648

RECEIVED

JUL 10 1978

COLO. OIL & GAS CONS. COMM

1. EXISTING ROADS

See attached Topographic Map "A".

To reach Continental Oil Company, well location South McCallum Unit No. 22-2 located in the NW 1/4 SW 1/4 Section 22, T9N, R78W, 6th P.M. Jackson County, Colorado from Walden, Colorado, proceed Easterly along an existing improved road 9.3 miles to its junction with a road to the North; proceed Northerly along this road 0.3 miles to its junction with a road to the West; proceed Westerly along this road 0.2 miles to its junction with a road to the Northwest; proceed Northwesterly along this road 1.1 miles to its junction with the planned access road, to be discussed in Item #2.

There is no anticipated construction on any of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling of this well and the production of such if 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 attached Topographic Map "B".

The planned access road leaves the existing road described in Item #1 in the SW 1/4 SW 1/4 Section 22, T9N, R78W, 6th P.M. and proceeds in a Northerly direction 388' to the proposed location site, in the NW 1/4 SW 1/4 said Section 22.

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 any normal meteorological conditions that are prevalent to this area.

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

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

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.

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 that will provide the greatest sight distance. These turnouts will be 200' in length and 12' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access end and the outlet end.

2. PLANNED ACCESS ROAD - continued

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 cattleguard.

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 terrain this road traverses is generally flat and slopes in a Northerly direction and is vegetated with sagebrush and grasses.

3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are existing producing wells within a two-mile radius of this proposed location. See Location Plat for placement of Continental Oil Company, South McCallum Unit 22-2 within this Section.

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

At the present time there are Conoco 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 some of the necessary production facilities.

There will be a proposed flowline constructed to take care of production in the event that production is established, which will proceed in a Northeasterly direction \pm 283.7' to an existing flowline. (See Topographic Map "B".)

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

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

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "B".

The proposed water source for this well is the Canadian River that is approximately 3 miles Northeast of this location site and will be hauled by truck on existing roads to the proposed location site.

5. LOCATION AND TYPE OF WATER SUPPLY - continued

If this water source is not available then the appropriate arrangements will be made to acquire the water necessary for the drilling of this well from other sources.

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 additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve and burn pit will be constructed.

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

One-half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one-half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

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

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

At the onset of drilling, this reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that back-filling and reclamation activities are attempted.

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

The burn pits will be constructed and fenced on all four sides with a small mesh wire to prevent any flammable materials from escaping and creating a fire hazard.

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

A portable chemical toilet will be supplied for human waste.

13

RECEIVED

JUL 10 1978

8. ANCILLARY FACILITIES

COLO. OIL & GAS CONS. COMM.

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

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type 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 of the location site itself.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. 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 5' of cover.

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

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The terrain of the general area lies in a large valley at the head of the North Platte River Drainage formed by the Park Range of mountains to the West; the Rabbit Ears Range to the South and the Medicine Bow Range to the East, with numerous small hills and ridges forming the valley floor.

The ridges and canyons formed by perennial and non-perennial streams and washes are rather steep and outcrops of sandstones and conglomerates are common in the area forming ledges and cliffs along the sides of the canyons.

The geologic formation exposed in the area range from the Middle Park formation of the Eocene Epoch (Tertiary period) to the Pierre Shale of the Upper Cretaceous period.

11. OTHER INFORMATION - continued

The major drainages in the valley with a year-round flow are the Canadian River, Michigan River, Illinois River, and the North Platte River of which the first three are tributaries to the North Platte on the North end of the valley.

The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during the early spring run-off and during extremely heavy rain storms of relatively long duration. This type of storm is rather uncommon as the normal annual precipitation is around 8".

The topsoils in the area range from sandy-clay (SM-ML) type soil to a clayey (OL) type soil.

Due to the low precipitation average, climate conditions and the 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, and consist of sagebrush, rabbitbrush, some grasses and cacti as the primary flora.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents.

The area is used by man for the primary purposes of grazing domestic livestock and sheep.

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

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

South McCallum Unit No. 22-2 location sits on a steep hillside which slopes to the West into what is known as Sudduth Draw, a non-perennial drainage which drains to the Northeast into the Canadian River.

The geologic structure of the location is of the Middle Park formation and consists of brownish-gray sandy clay (SP-CL) with some sandstone outcrops.

The ground slopes through the location to the West at approximately a 6% grade.

The location is covered with some sagebrush and grasses with large areas devoid of any vegetation.

There are occupied dwellings or other facilities of this nature in the area of this location. See Topographic Map "B".

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

Continental Oil Company
South McCallum Unit No. 22-2
Section 22, T9N, R78W, 6th P.M.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Charles J. McAllister
Box 98
Walden, Colorado

TELE: 1-303-723-4214

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 Continental Oil Company and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

Date

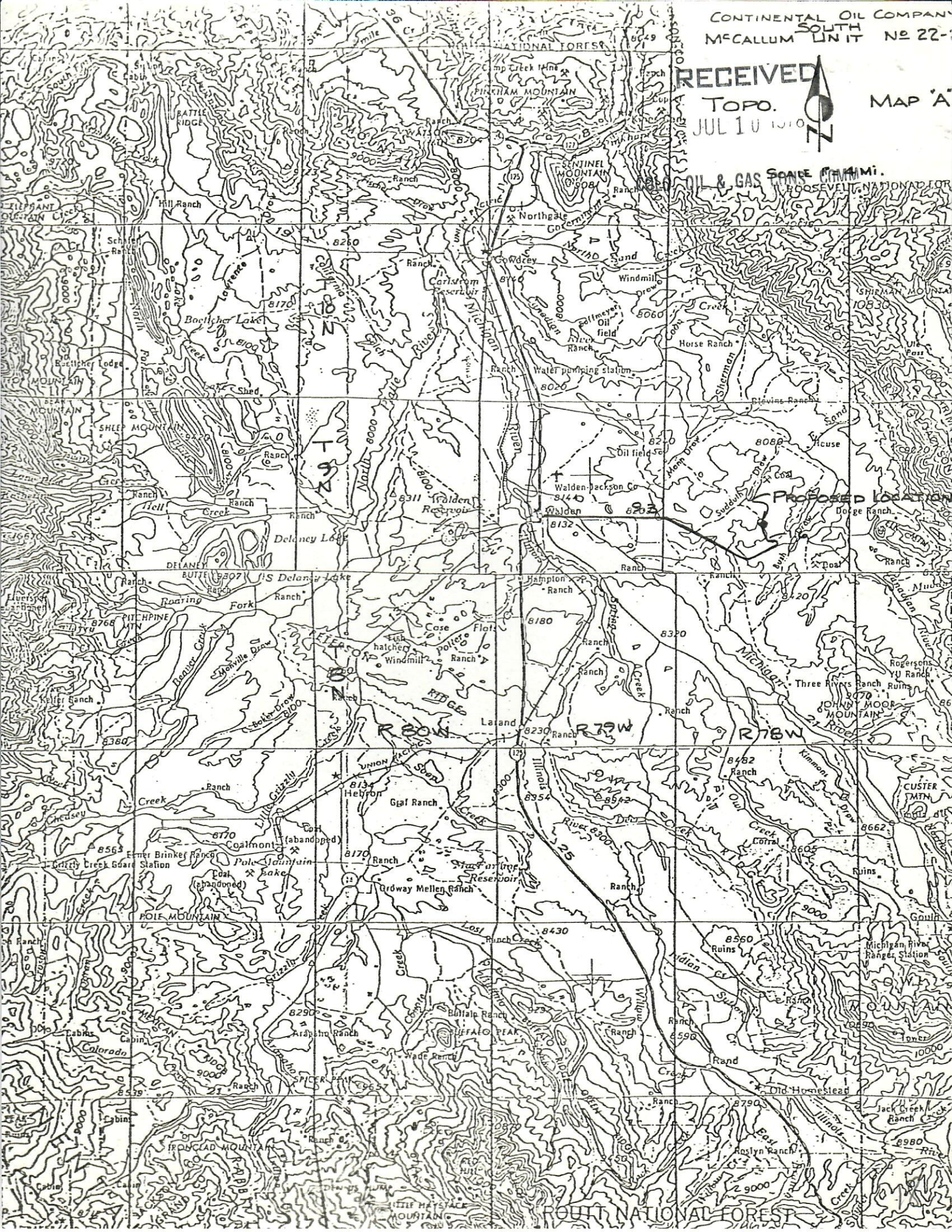
5-1-78

Charles J. McAllister
Charles J. McAllister

RECEIVED
TOPO.
JUL 10 1910



MAP 'A'



OIL & GAS SOURCE CHAMMI.
ROOSEVELT NATIONAL FOR

PROPOSED LOCATION

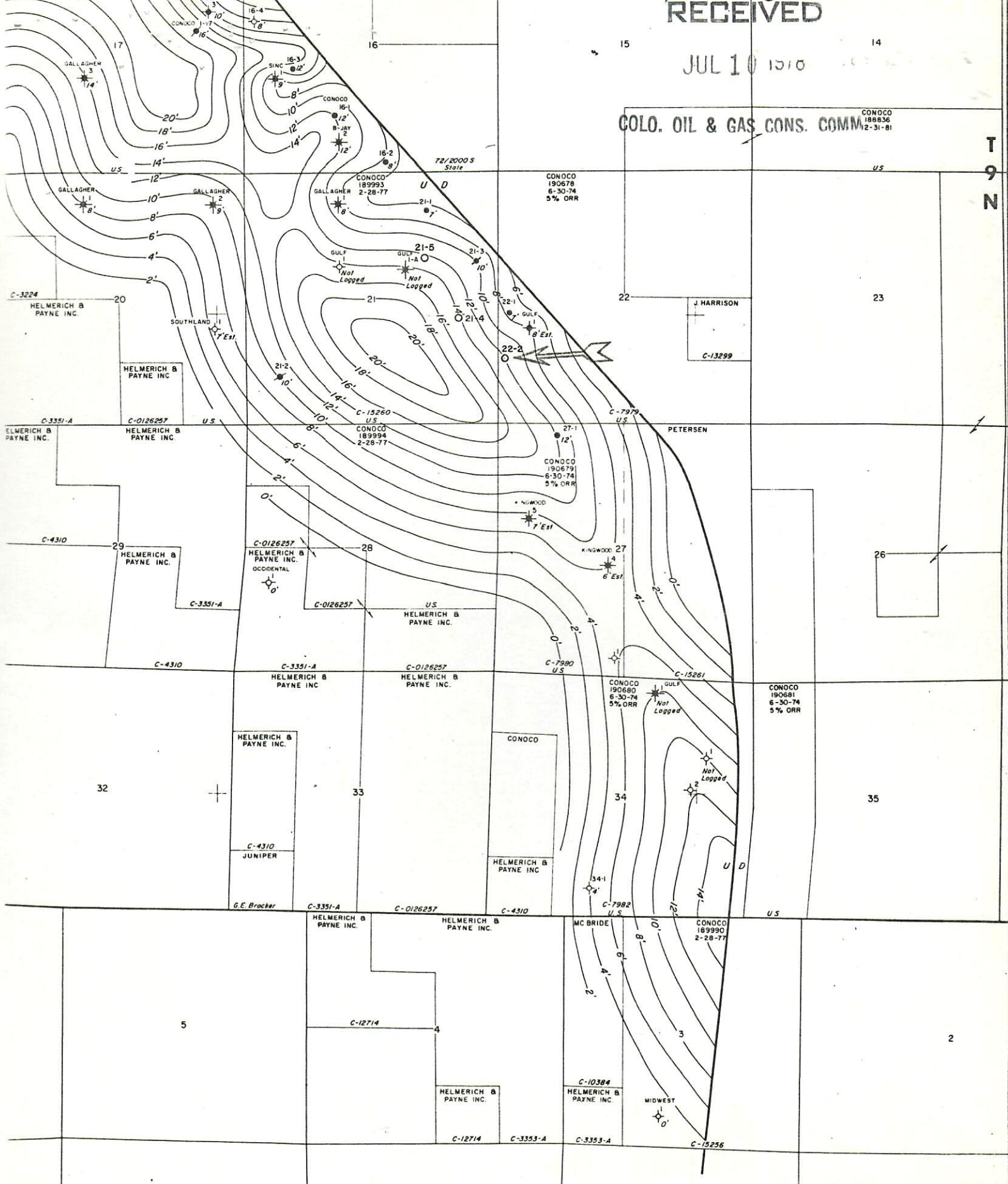
ROBERTS NATIONAL FOREST

RECEIVED

JUL 10 1970

COLO. OIL & GAS CONS. COMM. CONOCO 188836 12-31-81

T 9 N



- LEGEND —
- GAS-OIL GAS OIL LOCATION
 - * * * PRODUCING WELL
 - * * * SHUT-IN WELL
 - * * * ABANDONED WELL
 - * * * DRY HOLE

REVISIONS	
By	Date
JGV	11-4-78

CONTINENTAL OIL COMPANY
 PRODUCTION DEPARTMENT
 Casper, Wyoming

SOUTH McCALLUM
 ISOPACH MAP - NET PIERRE "B" SAND

County: Jackson State: Colorado Cont Int. = 2'

Engineer: T R Heidrich Date: 11-1-78
 Eng. Tech: O G Volger Date: 11-1-78
 Draftsman: B S Scale = 1,000' Well Status: 4-78