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CONOCO, INC.

13 Point Surface Use Plan

For

Well Location

South McCallum Federal 28 #1

Located In

Section 28, T9N, R78W, 6th P.M.

Jackson County, Colorado

CONOCO, INC.  
South McCallum 28 #1  
Section 28, T9N, R78W, 6th P.M.



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1. EXISTING ROADS

See attached Topographic Maps "A" and "B".

To reach Conoco, Inc. well location South McCallum Fed. 28 #1 located in the SE $\frac{1}{4}$  NE $\frac{1}{4}$  Section 28, T9N, R78W, 6th P.M., Jackson County, Colorado.

Proceed Easterly out of Walden, Colorado, on an improved dirt road 8.4 miles to its junction with an oil field service road to the North; proceed Northerly along this road 0.3 miles to its junction with a road to the South-west; proceed Southwesterly along this road 0.3 miles to its junction with a road to the Northwest; proceed Northwesterly along this road 0.6 miles to its junction with the planned access road (to be discussed in Item #2).

The improved dirt road which proceeds Easterly out of Walden is a Jackson county road, and is maintained by county road crews. The oil field roads are maintained by Conoco, Inc. This maintenance consists of grader work for snow removal and for smoothing of the road grade. The oil field roads are under B.L.M. jurisdiction.

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.

2. PLANNED ACCESS ROAD

See attached Topographic Map "B".

The planned access road leaves the existing road described in Item #1 in the SW $\frac{1}{4}$  NW $\frac{1}{4}$  Section 27, T9N, R78W, 6th P.M. and proceeds in a Southwesterly direction 0.3 miles to the proposed location site.

The terrain that this road traverses is relatively flat and is vegetated by sagebrush, grasses and cacti. The maximum grade along this road will not exceed 8%.

This planned 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 condition that are prevalent to this area. The damaged area will be kept to a minimum.

Back slopes along the cut areas of the road will be 1 $\frac{1}{2}$  to 1 slopes and terraced. There will be no culverts required along this road. The road will be centerline flagged prior to the commencement of construction. There will be no turnouts required along this road and no fences encountered by this planned access road. There will be no cattleguards or gates required.

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3. LOCATION OF EXISTING WELLS

The location site is near the North McCallum oil field, therefore there are various wells within a one mile radius of the proposed location site.

There are no known water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells, for other resources, within a one mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are tank batteries, production facilities, oil gathering lines, injection lines and disposal lines within a one mile radius of this location site.

Power for this location will be run from an existing power line approximately 1200' Northeast of the proposed location site. " It is not known at this time where the proposed flowline will run.

These proposed facilities will be constructed using bulldozers, graders, and workman crews to lay and place lines.

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

The rehabilitation of the disturbed area that is not required for the production of this well will meet the requirements of Item #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 8.5 road miles North of this location site and will be hauled by truck on existing roads and the proposed access road to the proposed location site.

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.

There will be no water will drilled at this location site.



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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.

All of these materials will be acquired from B.L.M. administered lands.

7. METHODS FOR HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve 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 the 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.

A trash basket will be placed on the location site to contain trash and other waste materials.

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.



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9. WELL SITE LAYOUT

See attached Location Layout Sheet.

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

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

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

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. 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.

Any drainages re-routed during 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 pits shall be buried with a minimum of 4' of cover.

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

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up 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 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.



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11. OTHER INFORMATION - continued

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 these 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.

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 a sandy-clay (SM-ML) type soil to a clayey (OL) type soil.

Due to the low precipitation average, climate conditions and 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 consists 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 purpose 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 Fed. 28 #1 sit on a relatively steep area above Sudduth Draw a non-perennial drainage which flows into the Canadian River approximately 3 miles North.

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

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11. OTHER INFORMATION - continued

The ground slopes through the location to the Northeast at approximately a 13% grade.

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

There are no 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").

All lands involved in this location site are under B.L.M. jurisdiction.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

J.M. Galovich  
907 Rancho Road  
Casper, Wyoming 82601

Tele: 1-307-234-7311

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 Conoco, Inc. and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

3/26/81  
Date

John K. Walsh  
J.M. Galovich

CONOCO INC.

PROPOSED LOCATION

SOUTH M<sup>E</sup> CALLUM FED ZB #1



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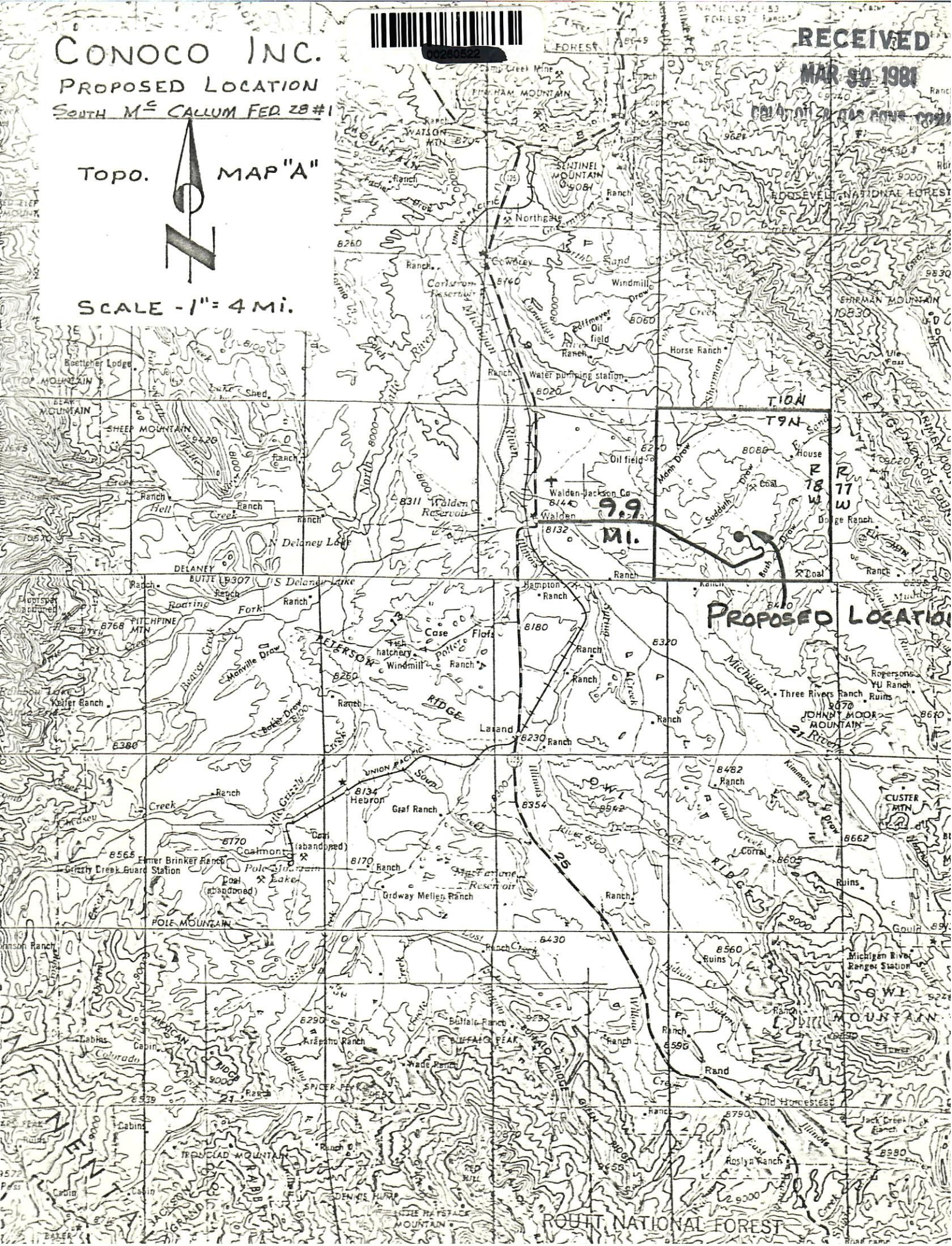
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Topo. MAP "A"



SCALE - 1" = 4 Mi.



9.9 MI.

PROPOSED LOCATION

ROUTE NATIONAL FOREST