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To: U. S. Geological Survey
8426 Federal Building
125 South State Street
Salt Lake City, Utah
84111

From: Helmerich & Payne, Inc.
P. O. Box 558
Garden City, Kansas
67846

Subject: 12-Point Development Plan For Surface Use

No. 1-19 McCallum-Federal

634' FNL & 2162' FWL

Sec 19, T9N, R78W

Jackson County, Colorado

Development plan is as follows:

1. Existing roads including location of the exit from main road or hiway.

See attached Map "A". Trail leaving County Road 19 in the well site area are unimproved light duty roads.

2. Planned access to drilling site.

See attached Map "A". Will build approximately 1/2 mile of road north from existing trail to location. Approximately 1 mile of the existing trail from County Road 19 could be graded and improved with permission from BLM.

3. Location of existing wells.

See attached Map "B".

4. Lateral roads to well locations.

See Item 1 and 2.

5. Location of tank batteries and flowlines.

See attached Flat I. Build tank battery approximately 300 feet south and 100 feet west of well site and along trail road.

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Subject: 12-Point Development Plan For Surface Use

6. Location and type of water supply.

Will purchase water from rancher in the immediate area of the location.

7. Method for handling waste disposal.

Waste disposal will be handled by use of burn pit and reserve pit on drilling site.

8. Location of camps.

Not applicable

9. Location of airstrips.

Not applicable

10. Location of layout to include position of rig, mud tanks, reserve pits, burn pits, pipe racks, etc...

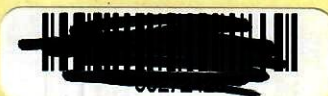
See attached Plat II

11. Plans for restoration of surface.

Surface will be restored as close to the natural as possible by spreading of stockpiled top soil on site after well completion. Entire drilling site less that area immediately around well will be reseeded and fertilized as specified by the BLM Supervisor.

12. Information for evaluating the impact on environment.

The proposed drill site is located in a sandy area with a downward slope to the north. The area around the well site is a sandy loam type soil with grass, sagebrush, etc. occurring naturally. Approximately 8 feet of cut will be necessary to level the location. Top soil will be stockpiled along the edge of the location for restoration of surface upon completion.


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From: Helmerich & Payne, Inc.
P. O. Box 558
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Subject: 7-Point Safety Equipment Plan For Drilling No. 1-19
McCallum-Federal, 634' FNL & 2162' FWL
Sec 19, T9N, R78W, Jackson County, Colorado

Plan for safety equipment is as follows:

1. Surface casing

300 feet of new 8-5/8" 23#/ft L. B. Foster
Surface casing

2. Size and series of casingheads, flanges and spools

Casinghead to be 10" 900 series (3000 psi W.P.)
X:8-5/8" slip on and weld.

3. Intermediate casing

It is anticipated that no intermediate string
will be run. Production string is to be 5 1/2".

4. Blowout preventers

10" Hydril and two 10" QRC BOP to be 3000 psi
working pressure.

5. Auxillary equipment to be used:

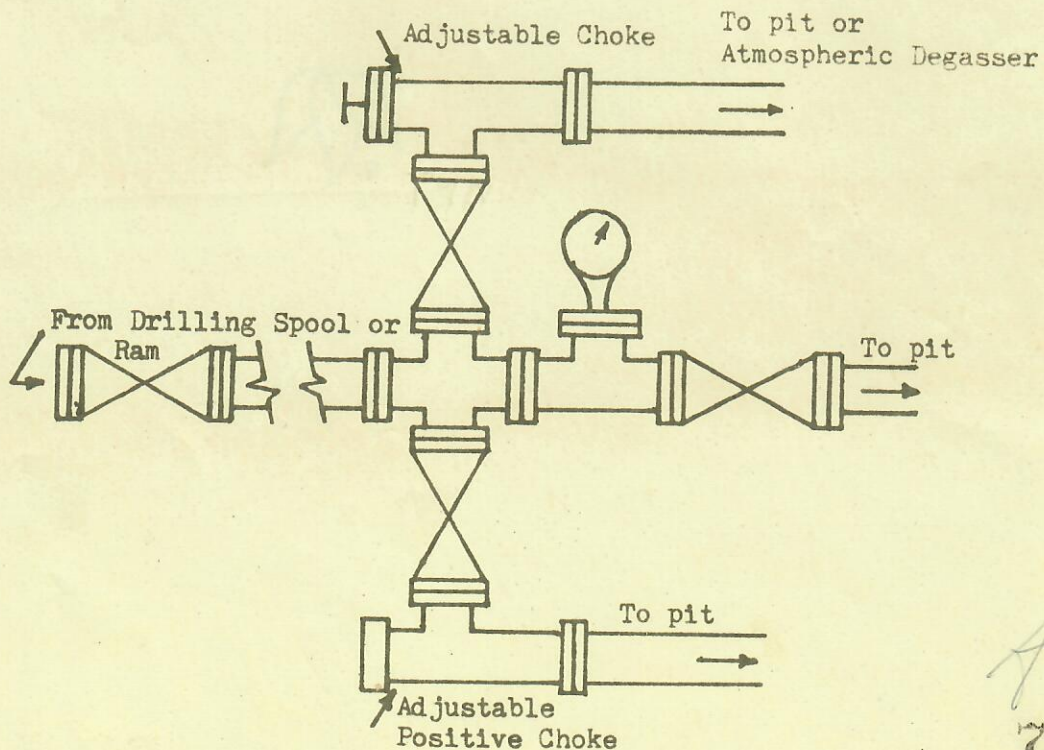
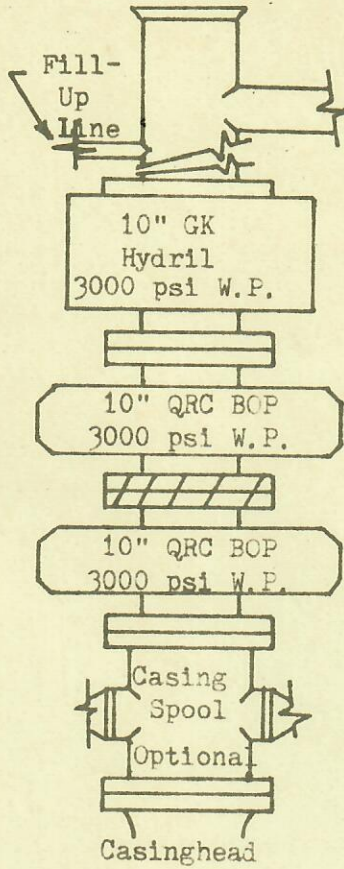
1. Kelly cock
2. Bit float
3. Sub on rig floor with full opening valve to
stab into drill pipe when kelly is not in
drill pipe string.

6. Anticipated bottom hole pressure is 3000 psi.

7. Type of drilling fluid to be used is Water Base.

Blowout Preventer Stack

3000 psi W.P.



Recommended choke manifold for 3000 psi WP service.

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