



POWERS ELEVATION

May 29, 1980

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
600 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

U. S. Geological Survey
E. W. Guynn, District Engineer
1745 West 1700 South
2000 Administration Building
Salt Lake City, Utah 84138

Re: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#23-8 Magnum
1833' FSL & 2877' FEL
Sec. 8 T31S R15E
Garfield County, Utah

Dear Mr. Guynn:

Enclosed are three copies of the NTL-6 program and A.P.D. Form 9-331C for the above-referenced well location.

Please notify us when you have arranged a time with the B.L.M. to inspect the site, in order that Larry Becker, our surveyor who did the ground work for this application may be present during the inspection.

The archaeological report is not included with the NTL-6 but will be forwarded to your office, and to the B.L.M. office, from our Archaeological Division.

Sincerely yours,

POWERS ELEVATION

Connie L. Frailey

Connie L. Frailey

CLF:mc
Enclosure

cc: William Vandeventer, William C. Kirkwood, Casper, Wyoming
Larry Becker, Powers Elevation, Grand Junction, Colorado
Dirt Contractor

Powers Elevation
Suite 1201 Cherry Creek Plaza
600 So. Cherry Street
Denver, Colorado 80222

RE: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#23-8 Magnum
1833' FSL & 2877' FEL
Sec. 8 T31S R15E
Garfield County, Utah

Gentlemen:

This is to confirm our understanding with you that Powers Elevation is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

POWERS' responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

W C Kirkwood Oil & Gas
Company

by: William C. Kirkwood

Title: Geologist

Date: 5/2/80



United States Department of the Interior

IN REPLY REFER
3100(U-504)

BUREAU OF LAND MANAGEMENT
Henry Mountain Resource Area
P.O. Box 99
Hanksville, UT. 84734

June 30, 1980

George Diwachak
USGS Conservation Division
2000 Administration Building
1745 W. 1700 S.
Salt Lake City, UT. 84104

Re: Kirkwood Oil
Proposed Drilling Project
T. 31 S., R. 14 E. and T. 31 S., R. 15 E.

Dear Mr. Diwachak:

The following information concerns surface protection stipulations to be incorporated into the APD's for the above referenced drilling project.

Site specific stipulations for each of the eight locations include the following:

<u>WELL NAME</u>	<u>LOCATION</u>	<u>LEASE NUMBER</u>
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Magnum 253	NE SW 1/4 - 31 S. R. 15 E.	US 1478
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- a - The site will be moved roughly 900 ft. to the east to a point where it's coordinates in section 8 are 1900' FEL and 1790' FSL. 1934 1667
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LBS/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2



Save Energy and You Serve America!
SEE PAGE 5 For CLEARANCES

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum, old rocks and debris will be removed and no new cuts will be authorized.

2 - White Rim 44-4 SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 4, T. 31 S., R. 15 E. U-21083

- a - The site will be moved from the SESESE, to the NESESE of section 4.
- b - The drill site will not be bladed.
- c - A small reserve pit will be cut to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum.

3 - Garfield 44-15 SE $\frac{1}{4}$ SE $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by simply removing any rocks and debris

blocking the road and by filling in any washed out areas.

4 - Winfield 21-15 NE $\frac{1}{4}$ NW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

5 - Remington 14-15 SW $\frac{1}{4}$ SW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - The two rock cairns on the access road will be left intact.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

6 - Monroe 22-20 SE $\frac{1}{4}$ NW $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will be moved 75 feet to the west in order to drill on a level spot on the old existing road.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRES</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

7 - Eastex 41-20 NE $\frac{1}{4}$ NE $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will not be bladed and will be located directly adjacent to main access road in North Hatch Canyon.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.

8 - Cromwell 33-29 SW $\frac{1}{4}$ SE $\frac{1}{4}$ 29, T. 31 S., R. 15 E. U-21476

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.

- c - Access to the site will involve blading roughly 3/4 mile of new road from the existing road in South Hatch Canyon. This road will be constructed with a minimum amount of blading and will be reclaimed from the site all the way back to the South Hatch Canyon road. All cuts will be recontoured, the road disked and revegetated by hand broadcasting the following species.

<u>SPECIES</u>	<u>LB/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - Upon completion fo the well the pit will be covered, the site will be disked and the above listed species will be hand broad-casted over the site.
- e - All trash and debris will be carried off and disposed of in a BLM approved site.

In addition to the above mentioned site specific stipulations the entire project should be covered by two more protective measures.

- 1) No unnecessary off-road driving will be authorized. Four-wheel drives will be restricted to existing roads.
- 2) No uranium claim markers, or cairns, will be destroyed or damaged.

The majority of the project takes place in BLM Wilderness Inventory Unit # 241, Fiddler Butte. The areas wilderness characteristics are not exceptional and as a result the BLM's inventory has recommended that the unit be dropped from any further wilderness study. However, under BLM's Interim Management Policy of Lands Under Wilderness Review (IMP), we are mandated to protect the area from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This time frame allows the public to comment on our decision. If there are any comments or protests to put this area back into wilderness study status, then the Bureau will have to assess the comments and decide if they are worthy of consideration. Therefore, the area could go back into wilderness study status in October and as a result we must protect the area.

The BLM's IMP Guidelines mandate that these wilderness guidelines be addressed in an Environmental Assessment (EA).

Therefore, since the GS is preparing the EA for this project, we would request that this information be included in the document. You can also include the statement that the Bureau has determined that impacts from this project will not impair the wilderness characteristics of the area and that if the mitigating measures are followed, the impacts can be returned to a substantially unnoticeable condition.

The BLM has also conducted surveys for Threatened and Endangered Plants and Animals in the project area and as a result of these surveys T & E clearances

are granted as no T & E plants or animals were found. The BLM can also grant Archaeological clearance at this time based on an archaeological survey conducted of the area by Powers Elevation Company.

If you have any questions concerning the foregoing discussion, or if you need any additional information, please feel free to contact our office.

Sincerely,



Area Manager

CC; Chuck Horsburgh
Richfield BLM

W.J. Averett, Consulting Petroleum Engineer
1682 Woodland Dr.
Provo, Utah 84601

**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
 William C. Kirkwood

3. ADDRESS OF OPERATOR
 P. O. Drawer 3439, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface: 1833' FSL & 2877' FEL (NE SW)
 At proposed prod. zone: Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 45 miles East of Hanksville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1833'

16. NO. OF ACRES IN LEASE 2136

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640'+

19. PROPOSED DEPTH 850' *Open Rock*

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5168' GR

22. APPROX. DATE WORK WILL START* June 15, 1980

5. LEASE DESIGNATION AND SERIAL NO.
 U-21478

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 N/A

7. UNIT AGREEMENT NAME
Hatch Canyon

8. FARM OR LEASE NAME
 Magnum

9. WELL NO.
 #23-8

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 8 T31S R15E

12. COUNTY OR PARISH Garfield **13. STATE** Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 1/2"	6 5/8" New	24# K-55 8Rd.	20'	10sxs cement Class "G" 2% Ca C
5 5/8"	4 1/2" New	9.5# K-55 8Rd.	850'	50sxs cement Class "G" 2% Ca C

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 850'
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "D" The Multi-Point Requirements for A.P.D.
- "E" Access Road Maps to **APPROVED BY THE DIVISION**
- "F" Radius Map of Field OF OIL, GAS, AND MINING

RECEIVED
 JUL 08 1980

DIVISION OF
 OIL, GAS & MINING

DATE: 7-9-80

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on ~~productive~~ 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 Wm. C. Wandewentz TITLE Petro. Engr. DATE 2-14-80

(This space for Federal or State office use)

PERMIT NO. 43-017-30089 APPROVAL DATE 7/9/80

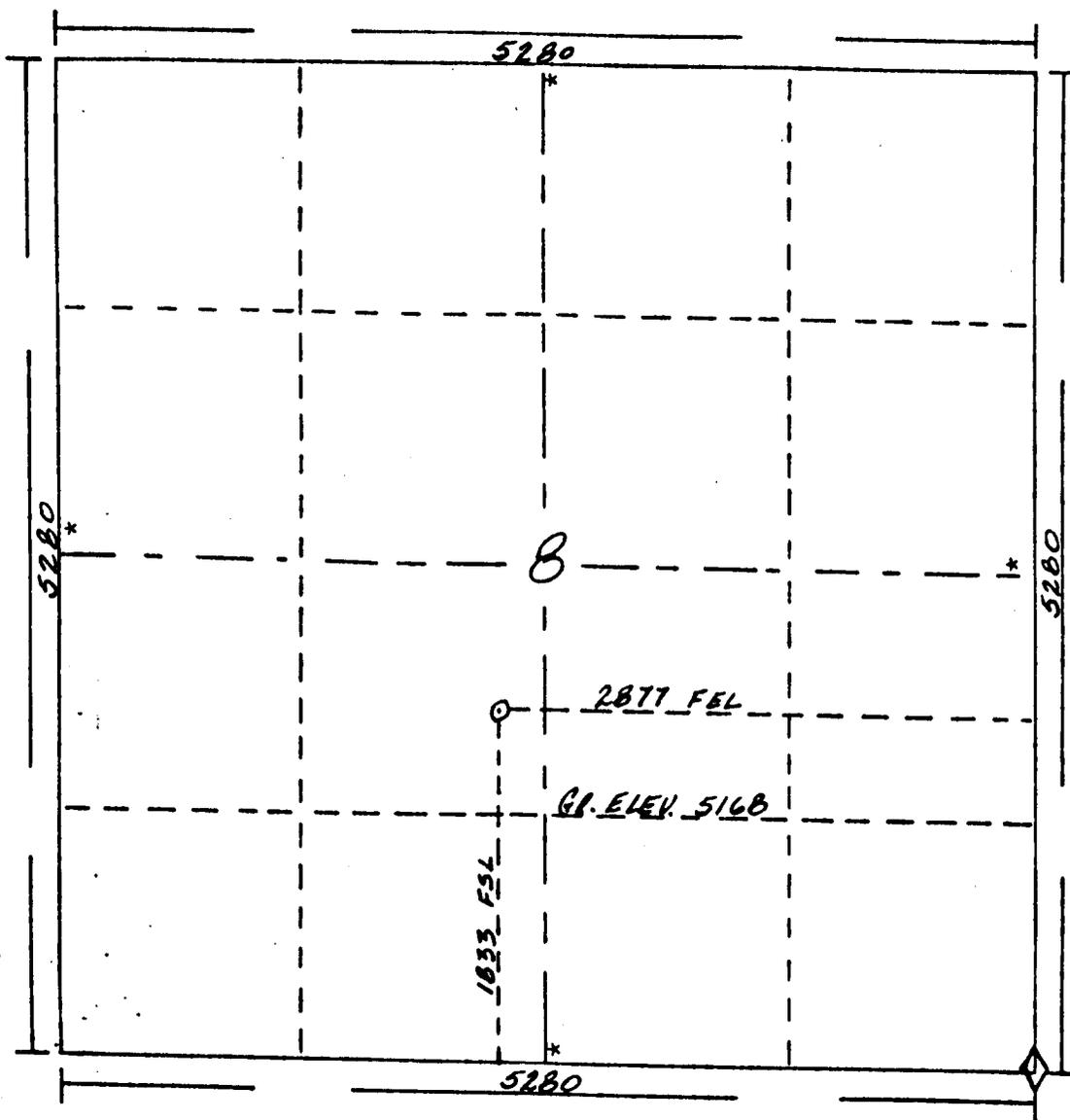
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:



* Protraction Diagram No. 3
BLM Area 2
March 7, 1961

R. 15 E.



T.
31
S.

Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from *Tim Schowalter*
 for *WILLIAM C. KIRKWOOD*
 determined the location of #23-B MAGNUM
 to be 1833 FSL & 2877 FEL of Section 8, Township 31 S.
 Range 15 E. of the Salt Lake Base and Meridian
 Garfield County, Utah.

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #23-B MAGNUM

Date: 5-9-80

Harry D. Becker
 Licensed Land Surveyor No. 4189
 State of Utah

EXHIBIT "B"

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

Attached to Form 9-331C
William C. Kirkwood
Magnum 23-8
NESW, Sec. 8, T31S R15E
1833' FSL & 2877' FEL
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Navajo.

2. Estimated Tops of Important Geologic Markers

White Rim	530'
Organ Rock	830'
Total Depth	850'

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

No water zones are anticipated

White Rim	530'	Oil
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<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE & JOINT</u>	<u>NEW OR USED</u>
8½"	0-20'	20'	6 5/8"	24#, K-55, 8Rd.	New
5 5/8"	0-850'	850'	4 1/3"	9.5#, K-55, 8Rd.	New

A. Surface casing - 10 sxs. cement, Class "G", 2% Ca Cl.

B. Production casing - 50 sxs. cement, Class "G", 2% Ca Cl.

5. The Operator's Minimum Specifications for Pressure Control

Not Applicable

6. The Type and Characteristics of the Proposed Circulating Muds

Not Applicable - Air Drilled.

7. The Auxiliary Equipment to be Used

Not Applicable

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

- (a) No DST'S are anticipated.
- (b) An IES Log and a Density log will be run from surface to 830 feet.
- (c) Coring is anticipated from the top of the White Rim to top of the Organ Rock, a total of 300 feet.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for June 15, 1980, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 4 days after spudding the well and drilling to casing point.

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C
William C. Kirkwood
#23-8 Magnum
NE SW, Sec. 8 T31S R15E
1833' FSL & 2877' FEL
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two 200' directional reference stakes, also shown on EXHIBIT "A".
- B. From Hanksville Postoffice go Easterly 18.2 miles on Highway 95; turn left on BLM dirt road to Poison Spring Canyon; go 16.4 miles to Dirty Devil River. Ford river and take road around Buckacre Point, and into North Hatch Canyon. Continue up North Hatch Canyon to a left turn in Section 17; this road leads Northerly up the plateau and back to location access road flagged in Section 8.
- C. All roads to location are color-coded on EXHIBIT "E". A new access road from the existing road will be used as shown on EXHIBIT "E".
- D. This is an exploratory well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A
- F. The existing roads need no improvement except to clear off rocks and repair winter damage.

2. Planned Access Roads

Map showing all necessary access roads to be constructed or reconstructed is shown as EXHIBIT "E" for the following:

A. Drilling Operations

1. If rocks are removed, the 0.1 mile of new access road can be used without blading. No surfacing is planned. The truck-mounted rig used for drilling weighs approximately 8 tons.

2. The grade will be 5-8%.
3. No turnouts are planned.
4. No drainage design is planned.
5. No culverts are needed.
6. No gates or fence cuts and cattleguards will be required.
7. The new access road to be used was center line flagged. This road does cross B.L.M. lands, as shown on EXHIBIT "E".

B. Production

1. The grade on the existing roads ranges from 0-15%; most areas are 3-4%. No road construction or upgrading is planned if well is productive.

3. Location of Existing Wells

For all existing wells within two mile radius of Exploratory well, see EXHIBIT "F".

- (1) There are 0 water wells within a two mile radius of this location.
- (2) There are 0 abandoned wells in this two mile radius.
- (3) There are 0 temporarily abandoned wells.
- (4) There are 0 disposal wells.
- (5) There are 0 wells presently being drilled.
- (6) There are 0 producing wells within this two mile radius.
- (7) There are 0 shut-in wells.
- (8) There are 0 injection wells.
- (9) There are 0 monitoring or observation wells for other uses.
- (10) There are several core holes for prospecting located throughout the canyon lands.

4. Location of Existing and/or Proposed Facilities

A. Within one-mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

- (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. If production is obtained, there will be no production facilities installed at this time.

5. Location and Type of Water Source

No water will be required. This well is to be air-drilled.

6. Construction Materials

No construction materials are needed for any phase of the proposed operations.

7. Handling of Waste Materials and Disposal

(1) There will be no drill cuttings. This well is to be air-drilled and exhaust will be dispersed into the atmosphere.

(2) There will be no drill fluids and no pits will be dug. If any water is encountered during drilling, a surface tank will be set.

(3) Garbage and trash will be collected in containers and hauled away to approved sanitary landfill. Human waste will be collected in chemical facility and hauled away.

(4) All materials used during drilling will be removed from the drillsite within 30 days after completion of drilling.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

(1) No drill pad will be constructed for drilling this well.

(2) A truck-mounted rig will be used. The truck is approximately 30' long and weighs approximately 8 tons.

- (3) No pits will be dug. There will be no living facilities or trailers on site.

10. Plans for Restoration

- (1) Such disturbance as will be created by this drilling operation can be easily repaired should this area be finalized as a Wilderness and Recreation Area.
- (2) After drilling operations cease, revegetation and restoration will be performed in accordance with B.L.M. recommendations. This will be undertaken within whatever time frame the B.L.M. deems advisable.

11. Other Information

- (1) Soil is sandy and clay loam. Topography are typical of canyonland such as The Big Ridge to the North, Sunset Pass to the Southeast. Area vegetation is cactus, pinon, cedar, sagebrush, shadscale, and rabbit brush. There are livestock, rabbits, rodents and lizards in the area.
- (2) The primary surface use is for grazing and recreation. The surface is owned by the U.S. Government.
- (3) The closest live water is in South Hatch Canyon, 3½ miles South of the location.

The closest dwelling is Hite Marina, 20+ miles South of location.

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about June 15, 1980. It is anticipated that the casing point will be reached within 4 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes
Agent Consultant for
William C. Kirkwood
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
Phone (303) 321-2217

William C. Vandeventer
William C. Kirkwood
Drawer 3439
Casper, Wyoming 82601
(307) 265-5178

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 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 William C. Kirkwood and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

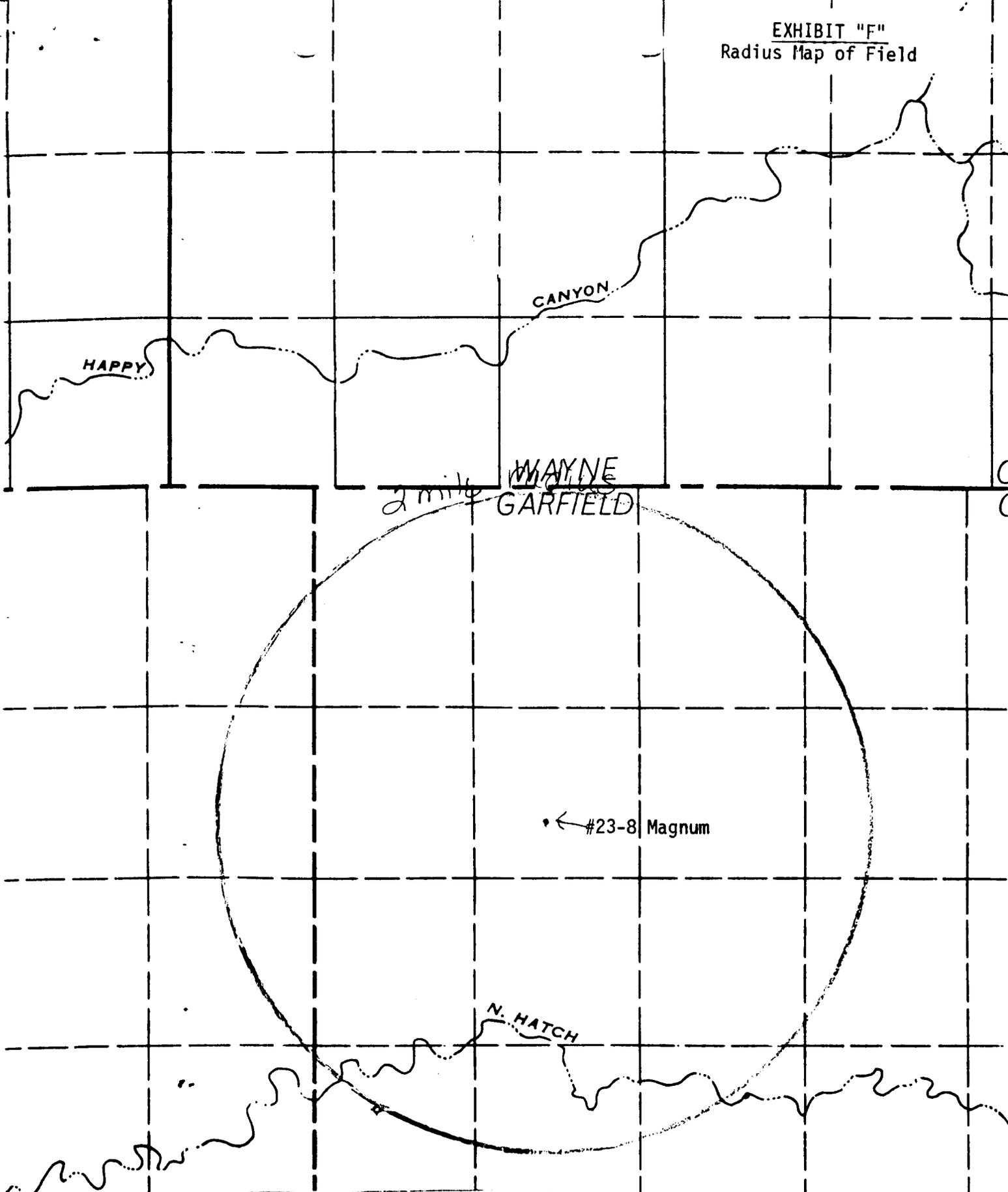
Date

5-29-80



George Lapaseotes
Agent Consultant for
William C. Kirkwood

EXHIBIT "F"
Radius Map of Field



LEGEND

- | | |
|-----------------------|----------------------------|
| ○ LOCATION | ⊛ OIL & GAS WELL |
| ◊ DRY HOLE | ⊛ ABANDONED OIL & GAS WELL |
| ● OIL WELL | ⊛ GAS WELL |
| ◆ ABANDONED OIL WELL | ⊛ ABANDONED GAS WELL |
| ▲ TRIANGULATION POINT | ☒ WATER WELL |

FROM: : DISTRICT GEOLOGIST, ~~ME~~, SALT LAKE CITY, UTAH

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-21478

OPERATOR: William C. Kirkwood

WELL NO. 23-8

LOCATION: SE 1/4 NE 1/4 SW 1/4 sec. 8, T. 31S., R. 15E., SLM
Garfield County, Utah

1. Stratigraphy: Operator tops appear reasonable

Navajo	surface
White Rim	530'
Organ Rock	830'
<u>TD</u>	<u>850'</u>

2. Fresh Water:

None probable

3. Leasable Minerals:

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None anticipated

6. References and Remarks:

Heavy oil. - might require Tertiary extraction methods

Signature: Gregory W. Wood

Date: 6-24-80

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

Usual Environmental Analysis

Date: July 11, 1980

Operator: William C. Kirkwood Project or Well Name and No.: 23-8
Location: 1667' FSL & 1939' FEL Sec.: 8 T.: 31S R.: 15E
County: Garfield State: Utah Field/Unit: Wildcat
Lease No.: U-21478 Permit No.: N/A

Joint Field Inspection Date: June 26, 1980

Prepared By: George Diwachak

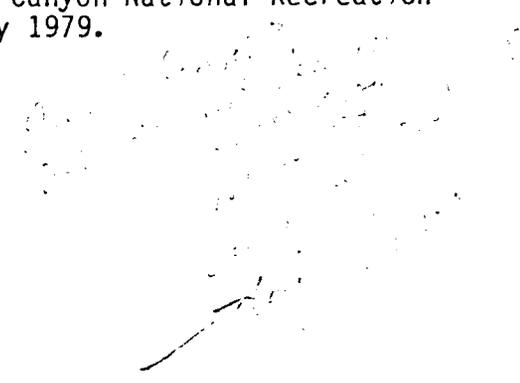
Field Inspection Participants, Titles and Organizations:

George Diwachak	Environmental Scientist	U.S.G.S.
Larry Gearhart	Surface Protection	BLM
Lynn Jackson	Geologist	BLM
Wallace J. Averett	Engineer	William C. Kirkwood
Larry Becker	Surveyor	Powers Elevation

Related Environmental Analyses and References:

- (1) Final Environmental Statement - Proposed General Management Plan, Wilderness Recommendation, Road Study Alternatives: Glenn Canyon National Recreation Area, National Park Service, Page, Arizona, July 1979.

1j 7/15/80



DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah.
County: Garfield
1667' FSL, 1939' FEL, NW 1/4 SW 1/4
Section 8, T 31S, R 15E, S L M.
2. Surface Ownership Location: Public.
Access Road: Public.

Status of
Reclamation Agreements: Not Applicable.

3. Dates APD Filed: June 4, 1980 .
APD Technically Complete: June 23, 1980 .
APD Administratively Complete: June 4, 1980 .

4. Project Time Frame
Starting Date: Upon approval .
Duration of Drilling activities: 2-3 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:
The location falls within a BLM Wilderness Study Area with no exceptional wilderness characteristics and as a result of a BLM inventory, the unit has been recommended to be dropped from further study (See attached BLM Memo).
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. The drill site would not be bladed. A truck mounted, air drilling rig would be employed utilizing an area 50 feet wide by 100 feet long. A small 10' X 10' reserve pit would be constructed to hold cuttings. A pit toilet would also be constructed for human sewage.

Surface disturbances would be kept to a minimum.

This well is part of an 8 well program within T 31S, R 15E.

2. Drilling techniques would employ a small truck mounted, air rig.
3. Waste disposal - All trash would be confined to containers and disposed of in a BLM approved location.
4. Traffic would be minimal and should be confined to existing roadways.
5. Water requirements - None needed.
6. Completion - None Anticipated.
7. Production - No production facilities are anticipated at this time.
8. Transportation of hydrocarbons - Not requested in APD.

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

The location was moved 955 feet easterly adjacent to an trail to reduce surface disturbances. A new survey plat submitted 7/1/80 is attached. Please note that the BLM response is incorrect in reported move footages.

The access route was adjusted slightly to accommodate the new location.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: Regional topography consists of Canyonlands terrain, steep, rock walled canyons and mesas with relatively flat valleys, within the Dirty Devil River Basin. The location is situated near the base of the talus flanked wall of the Big Ridge.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: None.

Information Source: APD, Mineral Evaluation Report, Mining Report.

2. Hazards:

- a. Land Stability: No instability expected, wellsite terrain is basically flat. A truck mounted rig with hydraulically controlled leveling devices would be used.

Information Source: APD, Field Observation, Operator.

- b. Subsidence. None expected.

Information Source: APD, Field Observation.

- c. Seismicity: The wellsite is in an area of minor seismic risk.

Information Source: Rocky Mountain Association of Geologists.

- d. High Pressure Zones/Blowout Prevention: No high pressure anticipated or found during drilling of nearby State Wells in Section 32, T 31S, R 15E and Section 36, T 31S, R 14E. No BOP equipment planned for this shallow test.

Information Source: APD, Operator.

B. Soils:

1. Soil Character: Soils in the area are a sandy clay with occasional sandy areas. Soil disturbances would be minimal and confined to pit and road construction.

Information Source: Field Observation, APD, BLM.

2. Erosion/Sedimentation: Minimal as surface disturbances would be limited.

Information Source: BLM, APD, Field Observation.

- C. Air Quality: The wellsite is within a Class II Attainment Area. Air quality would decrease temporarily from rig and vehicle emissions and fugitive dust.

Information Source: BLM, Field Observation.

- D. Noise Levels: Noise levels would increase temporarily from rig and vehicle operations affecting wildlife in a distributional sense.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

- a. Surface Waters: No perennial drainages in area. Wellsite is in Dirty Devil River Basin which flows to Lake Powell. Some siltation to Lake Powell could occur but would be minimal. No water is needed for drilling.

Information Source: Field Observation, APD.

- b. Ground Waters: No fresh water expected to be encountered during drilling. Commingling of any aquifers in area is possible. Water wells drilled into the White River formation 30 miles to the north-northeast have yielded sufficient quantities of useable, though highly mineralized water. However, the two wells drilled on nearby State locations did not discover any water in significant quantities.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: Spill potential to live surface waters is minimal.

Information Source: Field Observation.

b. Ground Waters: Insignificant impacts expected since air drilling techniques would be employed. The entire hole would be cemented upon completion of drilling, protecting any aquifers from contamination.

Information Source: Field Observation, APD.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the BLM on July 1, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Vegetation in area is sparse due to limited water. Plants are of a blackbrush community.

Information Source: Field Observation, BLM.

3. Fauna: Wildlife in area is sparse due to limited food source and consists predominately of rodents, coyotes, reptiles, chukars, songbirds and few raptors.

Information Source: APD, Field Observation, BLM.

G. Land Uses

1. General: The general area is used for grazing, minimal mineral exploration/extraction and recreation.

Information Source: BLM, Field Observation.

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

Information Source: Field Observation.

3. Roadless/Wilderness Area: The wellsite falls within BLM Wilderness Inventory Unit #241, Fiddler Butte. The area's wilderness characteristics are not exceptional and as a result, a BLM inventory has recommended that the unit be dropped from any further wilderness study, however, under BLM's Interim Management Policy of Lands under Wilderness Review (IMP), it is mandated that the area be protected from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This allows for public comment on BLM's decision. Any comments or protests to return this area back into wilderness study status would require the BLM to assess the comments and decide if they are worthy of consideration. Therefore, the area could return into Wilderness Study Status in October.

The BLM has determined that impacts from this project would not impair the wilderness characteristics of the area. This fact is supported by the operating plan presented in the APD. Furthermore, if recommended mitigative measures are followed, any impacts could be returned to a substantially unnoticed condition.

- H. Aesthetics: The operation does not blend in with the natural surroundings. However, considering the short duration of drilling the proposed 8 well program and the minimal surface disturbances proposed, this action would pose little impact to area aesthetics.

Information Source: Field Observation, APD.

- I. Socioeconomics: The remoteness of the area limits socioeconomic impacts in Garfield County, Utah. Most services and personnel would emanate from Moab, Utah, utilizing company camp facilities on State Lands. Some economic increases could be expected in Hanksville, Utah, the nearest town.

Information Source: Field Observation.

- J. Cultural Resources Determination: Based on the formal comments received from BLM on July 1, 1980, we determine that there would be no effect on cultural resources.

Information Source: BLM.

- K. Other: Glen Canyon National Recreation Area is located about 5 miles south-east of the project area. No impacts to the recreation area are expected.

Information Source: Field Observation.

- L. Adequacy of Restoration Plans: The restoration plan meets the minimum requirements of NTL-6. Restoration recommendations have been supplied by the BLM.

Information Source: BLM, Field Observation, APD.

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. A minimal amount of vegetation would be disturbed, slightly increasing and accelerating erosion potential.
- b. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- c. The potential for fires, leaks, spills of gas and oil or water exists but is minimal.
- d. During construction and drilling phases of the operation, noise and dust levels would increase.
- e. Distractions from aesthetics during the lifetime of the project would exist.
- f. Erosion from the site would eventually be carried as sediment in the Lake Powell.
- g. 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:

All adverse impacts described in section one above could occur, except:

- a. Constructing a reserve pit would provide for adequate disposal of cuttings and any encountered ground water.
- b. Keeping dirt work to a minimum would preserve the remote, pristine characteristics of the area.
- c. Moving the location to an existing trail would reduce surface disturbance.

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. The drillsite will not be bladed, however, a small 10' by 10' reserve pit an a pit toilet would be constructed.

- 3. All trash and debris will be removed from the site.
- 4. The location will be moved to the site agreed upon at the onsite inspection and reported in the attached survey plat.



Controversial Issues and Conservation Division Response:

None.

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).

E. S. [Signature] DISTRICT ENGINEER
 Signature & Title of Approving Official

JUL 16 1980
 Date



Kirkwood 23-8
 Original location

NW
 ↑



Kirkwood 23-8
 New location.

↑
 NW

SELECTED REFERENCES

- Anderson, B.A. 1979, Desert Plants of Utah: Cooperative Extension Service, Utah State University, Logan, Utah. 146 p.
- Bureau of Land Management, 1979, Final Initial Wilderness Inventory, Utah: U.S. Department of the Interior, BLM, Salt Lake City, Utah, 50 p.
- Bureau of Land Management, 1979, Interim Management Policy and Guidelines for Lands Under Wilderness Review: U.S. Department of the Interior, BLM, Washington, D.C. 32 p.
- Keller, E.A., 1976, Environmental Geology: C.E. Merrill Publishing Company, Columbus, Ohio. 488 p.
- National Park Service, 1979, Draft Mineral Management Plan: USDI/NPS, Page, A2. 56 p.
- National Park Service, 1979, Proposed General Management Plan, Wilderness Recommendations, Road Study Alternatives, Final Environmental Statement, Glen Canyon National Recreation Area / Arizona-Utah: USDI/NPS, Page A2. 347p.
- Rocky Mountain Association of Geologists, 1972, Geologic Atlas of the Rocky Mountain Region: Denver, Colorado. 331 p.
- Sumsion, C.T. and E.L. Bolke, 1972, Water Resources of Part of Canyonlands National Park, Southeastern Utah: U.S. Department of the Interior, Geological Survey, Salt Lake City Utah, Open File Report. 75 p.
- Wilson, LeMoyne, et.al, 1975, Soils of Utah: Agricultural experiment Station, Bulletin 492, Utah State University, Logan, Utah. 94 p.
- Zarn, Mark, 1977, Ecological Characteristics of Pinyon-Juniper Woodlands on the Colorado Plateau: U.S. Dept. of Interior, Bureau of Land Management, Technical Note 310, Denver, Colorado 183 p.

William R. ...

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-21478 Well No. 23-8

1. The location appears potentially valuable for:

- strip mining*
- underground mining**
- 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*

** FILE NOTATIONS **

DATE: July 8, 1980

OPERATOR: William C. Kirkwood

WELL NO: Hatch Canyon Unit # 23-8 (Magnum)

Location: Sec. 8 T. 31S R. 15E County: Garfield

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-017-30089

CHECKED BY:

Petroleum Engineer: M.G. Under 7-9-80

Director: _____

Administrative Aide: * on Unit boundary spacing

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 htm

Hot Line

P.I.

Unit approval

July 9, 1980

William C. Kirkwood
P.O. Drawer 3439
Casper, Wyoming 82601

RE: HCU #14-15 (Remington), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
HCU #21-15 (Winfield), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
HCU #22-20 (Monroe), Sec. 20, T. 31S, R. 15E., Garfield County, Utah
HCU #23-8 (Magnum), Sec. 8, T. 31S, R. 15E., Garfield 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, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, 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 #14-15: 43-017-30086;
#21-15: 43-017-30087; #22-20: 43-017-30088, #23-8: 43-017-30089.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/btm

cc: USGS

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
 William C. Kirkwood

3. ADDRESS OF OPERATOR
 P. O. Drawer 3439, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: 1833' FSL & 2877' FEL (NE SW)
 At proposed prod. zone: 1667' 1934' *to charge*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 45 miles East of Hanksville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1833'

16. NO. OF ACRES IN LEASE 2136

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640'+

19. PROPOSED DEPTH 850'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5168' GR

22. APPROX. DATE WORK WILL START* June 15, 1980

5. LEASE DESIGNATION AND SERIAL NO.
U-21478

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A *Hatch Canyon*

8. FARM OR LEASE NAME
Magnum

9. WELL NO.
#23-8

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
Sec. 8 T31S R15E

12. COUNTY OR PARISH 13. STATE
Garfield Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 1/2"	6 5/8" New	24# K-55 8Rd.	20'	10sxs cement Class "G" 2% Ca Cl
5 5/8"	4 1/2" New	9.5# K-55 8Rd.	850'	50sxs cement Class "G" 2% Ca Cl

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20' with good returns
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 850'
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "D" The Multi-Point Requirements for A.P.D.
- "E" Access Road Maps to location
- "F" Radius Map of Field

DUPLICATE COPY

RECEIVED
JUL 3 2 1980

DIVISION OF
OIL, GAS & MINING

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 William C. Kirkwood TITLE Perfo. Eng. DATE 2-14-80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY WT Mouton FOR E. V. C. DISTRICT SUPERVISOR DATE JUL 17 1980
 CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
 TO ORIGINAL COPY
 *See Instructions On Reverse Side

NOTICE OF PERMIT
 Utah State Oil + Gas

FILED
 GAS & MINING
 DISTRICT OFFICE

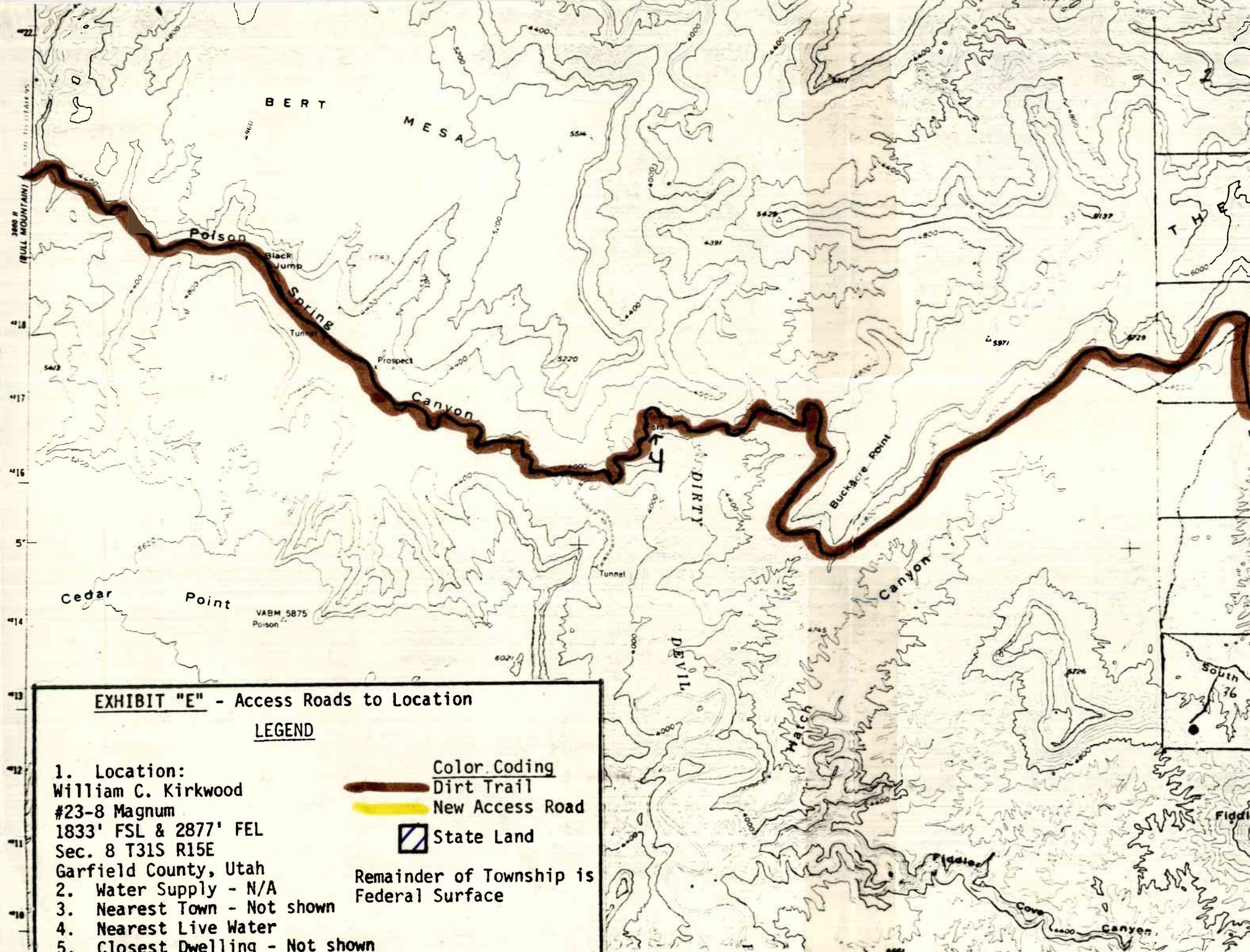


EXHIBIT "E" - Access Roads to Location

LEGEND

1. Location:
William C. Kirkwood
#23-8 Magnum
1833' FSL & 2877' FEL
Sec. 8 T31S R15E
Garfield County, Utah
2. Water Supply - N/A
3. Nearest Town - Not shown
4. Nearest Live Water
5. Closest Dwelling - Not shown

	Color Coding
	Dirt Trail
	New Access Road
	State Land
Remainder of Township is Federal Surface	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

10

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
William C. Kirkwood

3. ADDRESS OF OPERATOR
P.O. Box 3439, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1934' FEL 1667' FSL
At top prod. interval reported below same
At total depth same

NE SW

14. PERMIT NO. 43-97-3008 | DATE ISSUED 7-9-80

5. LEASE DESIGNATION AND SERIAL NO. U-21478

6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A

7. UNIT AGREEMENT NAME Hatch Canyon

8. FARM OR LEASE NAME Magnum

9. WELL NO. #23-8

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Section 8, T31S, R15E

12. COUNTY OR PARISH Garfield | 13. STATE Utah

15. DATE SPUDDED 7/17/80 | 16. DATE T.D. REACHED 7/22/80 | 17. DATE COMPL. (Ready to prod.) 9-80 | 18. ELEVATIONS (DF, RES, BT, GR, ETC.)* 5084' GL | 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 1100' | 21. PLUG, BACK T.D., MD & TVD | 22. IF MULTIPLE COMPL., HOW MANY* | 23. INTERVALS DRILLED BY | ROTARY TOOLS all | CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 462-540 White Rim | 25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray, Caliper, Density Resistance | 27. WAS WELL CORDED yes

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
6 5/8"	20#	20'	7 7/8"	5 sacks	
4 1/2"	9.5#	602.11'	6"	60 sacks	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION
DATE FIRST PRODUCTION | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
							51

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) | TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Wm. C. Kirkwood TITLE Petr. Engr. DATE 10 28-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

August 4, 1980

William C. Kirkwood 23-8 Magnum
1934' FEL 1667' FSL
Section 8, T31S, R15E
Garfield Co., Utah
G.L. elevation 5084

Spud 7-17-80 6 pm
Surface pipe same

0-120' \emptyset with Chinle
120-460' \emptyset with Moenkopi
460-483' Upper White Rim Dolomite with sandstone matrix
Moderate saturation with with sandstone layers
483-540 White Rim formation
Moderate to heavy saturation

57' total saturation good
540-543 moderate saturation with thin layers



SCOTT M. MATHESON
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

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

CHARLES R. HENDERSON
Chairman

CLEON B. FEIGHT
Director

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

May 21, 1981

William C. Kirkwood
P.O. Box Drawer 3439
Casper, Wyoming 82601

Re: SEE ATTACHED SHEET ON WELL DUE

Gentlemen:

In reference to above mentioned wells, 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 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 these wells and action will be taken to terminate the application.) If you plan on drilling these location 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

SANDY BATES
CLERK-TYPIST

ATTACHED SHEET ON WELLS DUE

1. Well No. White Rim #44-4
Sec. 4, T. 31S. R. 15E.
Garfield County, Utah
2. Well No. Magnum #23-8
Sec. 8, T. 31S. R. 15E.
Garfield County, Utah
3. Well No. Remington #14-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
4. Well No. Winfield #21-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
5. Well No. Garfield #44-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
6. Well No. Hatch Canyon Unit #34-16A
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah
7. Well No. Monroe #22-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
8. Well No. Eastex #41-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
9. Well No. State #11-2
Sec. 2, T. 32S. R. 15E.
Garfield County, Utah
10. Well No. State #31-16
Sec. 16, T. 32S. R. 15E.
Garfield County, Utah
11. Well No. State #34-16
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah

WILLIAM C. KIRKWOOD



Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602

OIL & GAS EXPLORATION & PRODUCTION

January 29, 1982

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

RE: Filing Additions to USGS Form
9-330 or OGCC-3

William C. Kirkwood
#23-8 Magnum
1934' FEL 1667' FSL
Sec. 8, T31S, R15E
Garfield County, Utah

Gentlemen:

Enclosed is a copy of the logs (where run), sample and core descriptions, geologic summaries and other data obtained during drilling and completion operations to date.

Our delay in the further completion of this well, is due to testing presently being done to determine the best method of completion to be used to produce oil from this reservoir. Testing is being done by the University of Utah Fuels Engineering Department on core samples and oil from this reservoir. Additional wells have been cored to obtain samples for analysis of reservoir characteristics and to further delineate oil reserves in the Hatch Canyon Unit. In addition several wells of a pilot test pattern have been drilled.

If you require further information or have any questions please contact me.

Sincerely,

Robert Montgomery

RM:bal

Enclosures

William C. Kirkwood
#23-8 Magnum
1934' FEL 1667' FSL
Sec 8 Twp 31S R 15E
Garfield Co., Utah
G.L. 5084

Spudded 7/17/80
T.D. 7/22/80 1100'

FM TOPS NOTES	DEPTHS	POROSITY	GRADES	ROUNDING	SORTING	% of FMWRK	GRAIN SIZE	HOLE # 23-8 M.L.G.NUM SPOT SEC 8 T31N R15E		SATURATION- OIL
								LITHOLOGY DISCRIPTION	DIAGENESIS	
CHAINC (MOSSACK)	0' - 10'							SURFACE DEBRIS & SS GREY FINE	CALC CNT	NONE
	10' - 40'							SS GREY TO WT	" "	"
	40' - 50'							SS TAN TO WT	CALC CNT	"
	50' - 130'							SS GREY TO WT	" "	"
MOENK-OPI	130' - 170'							SLTST, RED	CALC CNT	NONE
	170' - 190'							" " & WHITE MAYERED	" "	"
	190' - 270'							SLTST, RED	" "	"
	270' - 280'							" " w/ DOLA, GN STRINGER	" "	"
	280' - 360'							SLTST, RED	" "	"
	360' - 370'							SLTST, RED & WT	" "	"
	370' - 394'							SLTST, RED	" "	"
START CORE	394' - 396'							DOLA w/ LAYERS OF WT SS SLTST	CALC CNT	IN SS LAYERS
END CORE	396' - 421'							SLTST, RED & WHITE	CALC CNT	NONE
	421' - 460'							SLTST, RED & WHITE w/ DOLA STRINGERS	CALC CNT	NONE

FM TOPS NOTES	DEPTHS	POROSITY	GRADES	ROUNDING	SORTING	% of FMWR	GRAIN SIZE	HOLE # 23-8 MAGNUM SPOT SEC 8 T 31 N R 5 E		SATURATION- OIL
								LITHOLOGY DISCIPTION	DIAGENESIS	
WHITE RIM UPPER START CORE	460'							DOLO W/ WT SS - SLTST INTERLAYERED	SS, CAL CMT	IN SS LAYERS
	471' - 473'			T	M	20		SS - SLTST WT W/ LAYERS of DOLO	CAL CMT	IN SS, RUNNING
	473' - 483'			T	M	5		DOLO W/ TWIN SS - SLTST LAYERS	" "	IN SS LAYERS
WHITE RIM	483' - 492'			R	M	45		SS, WT, X-BED 150-200	LITTLE CAL CMT	THROUGHOUT CORE, HEAVY
	492' - 500'			R	M	95		SS, WT, X-BED 20	" "	" " MOD
S.M.C. for DEL. at 450'	500' - 512'			R	M	100		SS, WT NO APP BED VERY FRIBBLE	NO CMT	THROUGHOUT CORE HEAVY
	512' - 519'			R	M	75		" " BED FLAT LAYERS W/	HEAVY CMT	" " MOD
	514' - 515' 6"			R	M	80		" " " "	HEAVY CMT	FOUR IN LAYERS
	515' 6" - 519' 6"			R	M	95		" " " "	LITTLE CAL CMT	THROUGHOUT CORE, MOD
	519' 6" - 521'			R	M	90		SS, WT, BED 20°-30°	HEAVY CMT	IN LAYERS
	521' - 524'			R	M	95		" " BED FLAT TO 20°	LITTLE CMT	THROUGHOUT MOD-HEAVY
								LAYERS WITH HEAVY CMT ALSO SMALL PODS	LITTLE CMT	
	524' - 525'			T	M	100		VERY FRIBBLE	NO CMT	THROUGHOUT HEAVY
	525' - 528'			R	M	85		SS, WT, BED FLAT - 20°	LAYERS OF HEAVY CMT	LAYERS & THIN, MOD-LIGHT
	528' - 529'			R	M	80		" " " "	" "	THIN M-LAYERS
	529' - 534'			R	M	95		" " BED 5°-30°	LITTLE CMT	THROUGHOUT CORE, M-HEAVY
	534' - 540' 6"			R	M	85		" " " " " "	CMT IN LAYERS	" " MOD
	540' - 543'			R	M	85		SS, WT, BED FLAT	SACCA CMT THROUGHOUT	IN THIN LAYERS
	543' - 545'			R	M	85		" " " " " "	" "	NONE
	545' - 547'			R	M	85		" " " " " "	HEAVY CMT THROUGHOUT	
	547' - 559'			R	M	90		SS, WT, BED FLAT, VERY FRIBBLE	LITTLE CMT	
	559' - 560'			R	M	85		" " " " " "	MOD CMT	
560' - 578'	560' - 578'			R	M	90		SS, WT, BED FLAT, VERY FRIBBLE	LITTLE CMT	
LAST 8' CORE	578' - 599'			R	M	85		" " " " " "	" "	
	599' - 617'			R	M	85		SS, WT, BED 0°-20°	MOD CMT	
599' - 617' - LOST 9' CORE	617' - 618'			R	M	85		SS, WT, BED 0°-40°, FRIBBLE	LITTLE CMT	
	618' - 633'			R	M	90		" " " " " " VERY FRIBBLE	NO CMT	
633' - 642' - LOST 13' CORE	642' - 643'			R	M	85		" " " " " " FRIBBLE	LITTLE CMT	
	643' - 649'			R	M	80		SS, WT, BED 0°-150	MODERATE CMT	
	649' - 666'			R	M	80		" " " " " "	" "	
	666' - 668'			R	M	80		" " BED FLAT	HEAVY CMT	
	668' - 671'			R	M	80		" " NO BED	MOD CMT	
671' - 685' - LOST	685' - 695'			R	M	80		WT, SS, FLAT BED	HEAVY CMT	
	695' - 700'			R	M	80		" " BED 0°-30°	MOD CMT	
700' - 722' - LOST 16'	722' - 740'			R	M	90		" " " " " "	" "	
	740' - 740'			R	M	95		" " " " " "	MOD-LT CMT	
740' - 740' - LOST 9.5'										
740' - 760' - LOST										
760' - 770' - LOST 2' ->	DRILLED			R	M	95		WT, SS, BED NO KNOWN	LITTLE CMT	
	770' - 778'			R	M	95		" " BED " " "	MOD CMT	
	778' - 813'			R	M	90		" " " " " "	" "	
813' - 820' 3' MISS	820' - 833'			R	M	80		" " " " " "	" "	
	833' - 840'			R	M	80		" " " " " "	" "	
	840' - 852'			R	M	85		" " " " " "	" "	
	852' - 854'			R	M	82		" " " " " "	" "	

657'

701'

844'



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 21, 1983

William C. Kirkwood
P. O. Drawer # 3439
Casper, Wyoming 82601

Re: Well No. Magnum # 23-8
Sec. 8, T. 31S, R. 15E.
Garfield County, Utah

Gentlemen:

While reviewing the file in question, we notice a significant change in well location was made after approval to drill was issued by the State of Utah. The change in location was incorporated on the completion report, but there is no record of a Sundry Notice or amended Application for Permit to Drill for State approval of the location change.

Please submit a revised survey plat with a Sundry Notice showing the location as it now exists.

Your early response to update the file will be appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Well Records Specialist

CF/cf
Enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-21478

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

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 "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

William C. Kirkwood

3. ADDRESS OF OPERATOR

P. O. Drawer 3439, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

1934' FEL & 1667' FSL (NW SE)

7. UNIT AGREEMENT NAME

Hatch Canyon

8. FARM OR LEASE NAME

Magnum

9. WELL NO.

#23-8

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., E., M., OR B.L. AND SUBVY OR ABBA

Sec. 8, T31S, R15E

14. PERMIT NO.

43-017-30089

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5084' GR

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Change of Location

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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.)*

This location was changed before drilling from 1833' FSL & 2877' FEL (NE SW) to 1934' FEL & 1667' FSL (NW SE) because of topographic and access problems at the original location.

This well was completed in Sep 90 (E104)

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

SIGNED

Robert M. Anthony

TITLE Geologist

DATE

3/24/83

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

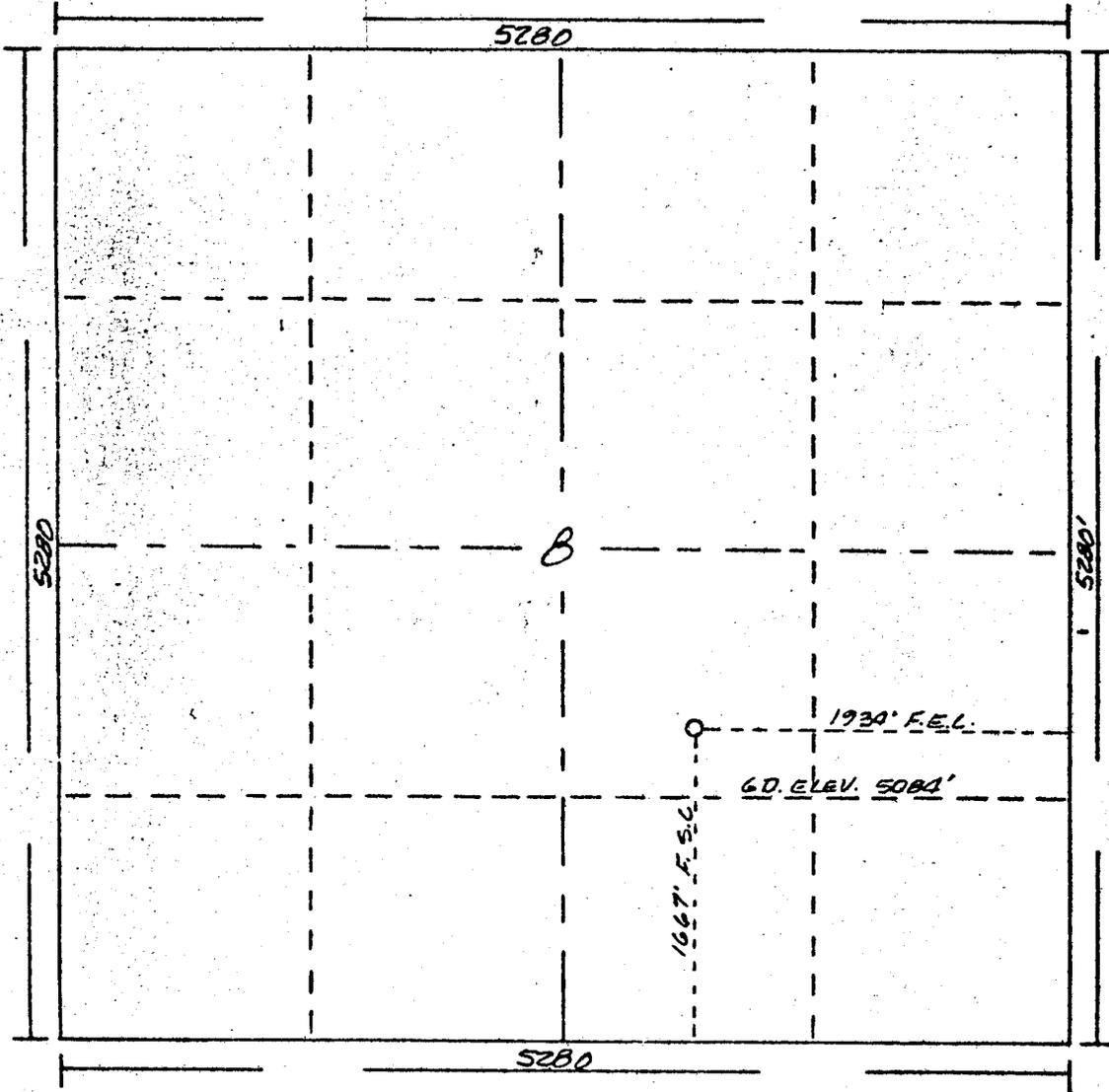
CONDITIONS OF APPROVAL, IF ANY:



R. 15E.



Prothorial Diagram No. 3
B.C.M. AREA 2
MARCH 7, 1961



T.
31
S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from *TIM SCHOWALTER*
 for *WILLIAM C. KIRKWOOD*
 determined the location of #23-B MAGNUM
 to be 1667' F.S.L., 1939' F.E.L. OF Section B Township 31 S.
 Range 15 E. OF THE SALT LAKE BASE AND Meridian
 GARFIELD County, UTAH

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #23-B MAGNUM

Date: 6.27.80

James D. Beck
 Licensed Land Surveyor No. 4189
 State of UTAH

William C. Kirkwood
#14-36 Technology
2076' FWL 746' FSL
Sec 36 Twp 31S R 14E
Garfield County, Utah
G.L. 4823'

Spudded 6/23/80
T.D. 6/25/80 462'

Deepened 7/1/80
T.D. 7/12/80 1000'

William C. Kirkwood
#33-29 Cromwell
2023' FEL 741' FSL
Sec 29 Twp 31S R 15E
Garfield County, Utah
G.L. 5120

Spudded 7/5/80
T.D. 7/8/80 700'

William C. Kirkwood
#23-8 Magnum
1934' FEL 1667' FSL
Sec 8 Twp 31S R 15E
Garfield County, Utah
G.L. 5084

Spudded 7/17/80
T.D. 7/22/80 1100'

William C. Kirkwood
#22-20 Monroe
2962' FEL 1790' FNL
Sec 20 Twp 31S R 15E
Garfield County, Utah
G.L. 4988

Spudded 7/9/80
T.D. 7/15/80 800'

William C. Kirkwood
#14-15 Remington
554' FWL 697' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5307'

Spudded 8/1/80
T.D. 8/3/80 1540'

William C. Kirkwood
#14-15 Garfield
4497' FWL 599' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5321'

Spudded 8/4/80
T.D. 8/6/80 1000'

William C. Kirkwood
#21-15 Winfield
2222' FWL 481' FNL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 6127'

Spudded 8/12/80
T.D. 8/14/80 1800'

William C. Kirkwood
#44-4 White Rim
401' FEL 1498' FSL
Sec 4 Twp 31S R 15E
Garfield County, Utah
G.L. 6005'

Spudded 8/14/80
T.D. 8/16/80 1640'

William C. Kirkwood
#34-16 State
699' FSL 1842' FEL
Sec 16 Twp 31S R 15E
Garfield County, Utah
G.L. 5058'

Spudded 8/22/80
T.D. 8/24/80 620'

William C. Kirkwood
#34-16 Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1842' FEL

Spudded 8/22/80
T.D. 620'
G.L. 5058'

William C. Kirkwood
34-16A Hatch Canyon Unit
SWSE 16-31S-15E
752 FSL 1789 FEL

Spudded 10/6/80
T.D. 440'
G.L. 5058'

William C. Kirkwood
34-16B Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1736' FEL

Spudded 6/21/81
T.D. 800'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1736' FEL

Spudded 12/19/81
T.D. 500'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1842' FEL

Spudded 6/12/82
T.D. 510'
G.L. 5058'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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 "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-21478
2. NAME OF OPERATOR William C. Kirkwood		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P.O. Box 3439, Casper, WY 82602		7. UNIT AGREEMENT NAME Hatch Canyon
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1934' FEL 1667' FSL NWSE		8. FARM OR LEASE NAME Magnum
14. PERMIT NO. 30089 43-017-30091	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5084' GL	9. WELL NO. 23-8
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 8, T31S, R15E
		12. COUNTY OR PARISH Garfield
		13. STATE UT

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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.)*

This well is located in the Hatch Canyon Unit. All operations in this Unit have been suspended pending the conversion of Federal Oil and Gas leases within this Unit to Combined Hydrocarbon leases. Once these leases are converted a new Combined Hydrocarbon Unit will be formed and operations resumed. Until that time this well has been shut in and temporarily abandoned.

RECEIVED
JAN 17 1985

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct
SIGNED Robert Hartman TITLE Geologist DATE 1-4-85
(This space for Federal or State office use)

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



355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

HATCH CYN UNIT

• KIRKWOOD, WILLIAM C.
P O BOX 3439
CASPER WY 82602
ATTN: AUDREY FISHER

* Combined Hydrocarbon
* Oper. Filed Bankruptcy

Utah Account No. N3260
Report Period (Month/Year) 1 / 89
Amended Report

Well Name	Producing Zone	Days Oper	Production Volume	Gas (MSCF)	Water (BBL)
API Number	Entity	Location	Oil (BBL)		
REMINGTON 14-15	SWSW WHRM	—	SOW U-21037		
4301730086	09645 31S 15E 15				
WINFIELD 21-15	NENW WHRM	11015	SOW U-21037		
4301730087	09645 31S 15E 15				
MONROE 22-20	SENW WHRM	11016	SOW U-21477		
4301730088	09645 31S 15E 20				9-29-89 per Theresa/B. P.
MAGNUM 23-8	NESW WHRM	11017	SOW U-21478		
4301730089	09645 31S 15E 8				Oper. has a bond, they can
CRMWELL 33-29	SWSE WHRM	11018	SOW U-21476		use to PA 4, Fed. Lease
4301730090	09645 31S 15E 29				
WHITE RIM 44-4	SESE WHRM	11019	SOW U-21083		write. Will probably never
4301730091	09645 31S 15E 4				
WINFIELD 44-15	SESE WHRM	11020	SOW U-21037		produce.
4301730092	09645 31S 15E 15				
STATE 34-16	SWSE WHRM	11021	SOW ML-27138		
4301730096	09645 31S 15E 16				
STATE 34-16A	SWSE WHRM	11022	SOW ML-27138		St. Leases
4301730098	09645 31S 15E 16				
HATCH CANYON U 34-16B	SWSE WHRM	11023	SOW ML-27138		
4301730107	09645 31S 15E 16				
TECHNOLOGY 14-36	WHRM	—	SOW (not in unit)		
4301730085	10929 31S 14E 36				
TOTAL					

Comments (attach separate sheet if necessary)

Entity 9645 ok. No P.A.'s in Unit!

9-25-89 All wells currently "SOW" status's. For

42-017-30086 is the only well that will retain entity 9645.

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____

Telephone _____

Bureau of Land Management
Branch of Fluid Minerals (U-922)
324 South State Street
Salt Lake City, Utah 84111-2303

3170
(U-922)

September 20, 1989

CERTIFIED MAIL - Return Receipt Requested

William C. Kirkwood
P.O. Drawer 3439
Casper, Wyoming 82502

Gentlemen:

Pursuant to our letter of August 8, 1989, the indefinite suspension of Section 9 drilling obligations within the Hatch Canyon Unit Area was lifted September 11, 1989. A copy of our August 8, 1989, correspondence and the Certified Return Receipt is enclosed for your records.

As a result of the indefinite suspension being lifted, the Hatch Canyon Unit Agreement, Garfield County, Utah, automatically terminated, effective September 16, 1989, pursuant to the last paragraph of Section 9 of the Unit Agreement.

Copies of this letter are being distributed to the appropriate Federal agencies. It is requested that you furnish notice of this termination to each working interest owner, lessee, and lessor.

In accordance with 43 CFR 3165.2, you may request a State Director Review of this decision. Any party adversely affected by a State Director Review may appeal to the Interior Board of Land Appeals as stated in 43 CFR 3169.4.

Sincerely,

Orig. Sgd: J.A. Fouts

ACTING

Robert A. Henricks
Chief, Branch of Fluid Minerals

bcc: DM Cedar City
Hatch Canyon Unit File
Agr. Sec. Chron.
Fluid Chron
U-922
Utah State Land Board
HNS-RFP
DOEM

BCoulthard 10/19/89
0128Y

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS		5. Lease Designation and Serial Number: <p style="text-align: center; font-size: 1.2em;">U-21478</p>
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.		6. If Indian, Allottee or Tribe Name:
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: _____		7. Unit Agreement Name: <p style="text-align: center; font-size: 1.1em;">HATCH CANYON UNIT</p>
2. Name of Operator: <p style="text-align: center; font-size: 1.1em;">WILLIAM C. KIRKWOOD</p>		8. Well Name and Number: <p style="text-align: center; font-size: 1.1em;">Magnum 23-8</p>
3. Address and Telephone Number: <p style="text-align: center; font-size: 1.1em;">P. O. BOX 3439 CASPER, WY 82602-3439</p>		9. API Well Number: <p style="text-align: center; font-size: 1.1em;">4301730089</p>
4. Location of Well Footages: 1934' FEL, 1667' FSL OO, Sec., T., R., M.: NESW SEC 8, T31S, R15E		10. Field and Pool, or Wildcat: County: <i>Garfield</i> State: <i>Utah</i>

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ANNUAL STATUS REPORT

The above referenced well was drilled and completed as an exploratory well in a heavy oil project. Although substantial oil reserves were found, low oil prices suspended further development and this well was put in a temporarily abandoned status.

13. Name & Signature: *John W. Johnson* Title: Engineer Date: 12/18/92

(This space for State use only)

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 William C. Kirkwood

3. Address and Telephone No.
 P. O. Box 3439, Casper, WY 82602 307 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 1934' FEL, 1667' FSL
 Sec. 8, T31S, R15E

5. Lease Designation and Serial No.
 U-21478

6. If Indian, Allottee or Tribe Name
 NA

7. If Unit or CA, Agreement Designation
 Hatch Canyon

8. Well Name and No.
 Magnum 23-8

9. API Well No.
 43-017-30089

10. Field and Pool, or Exploratory Area
 Wildcat

11. County or Parish, State
 Garfield Co., UT

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____ <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

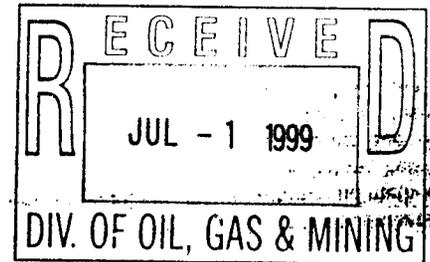
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Kirkwood proposes to abandon this well as follows:

- 1) Circulate well with 9 PPG fresh water bentonite gel
- 2) Set 5 sack surface plug
- 3) Install dry hole marker
- 4) Restore location as necessary

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Date: 7-13-99
 By: [Signature]



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

Signed [Signature] Title Engineer Date 6/29/99

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
 William C. Kirkwood

3. Address and Telephone No.
 P. O. Box 3439, Casper, WY 82602 307 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
 1934' FEL, 1667' FSL
 Sec. 8, T31S, R15E

5. Lease Designation and Serial No.
 U-21478

6. If Indian, Allottee or Tribe Name
 NA

7. If Unit or CA, Agreement Designation
 Hatch Canyon Unit

8. Well Name and No.
 Magnum 23-8

9. API Well No.
 43-017-30089

10. Field and Pool, or Exploratory Area
 Wildcat

11. County or Parish, State
 Garfield, UT

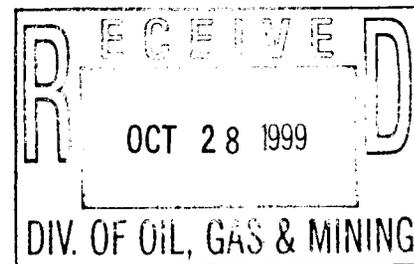
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)*

Please be advised that the above referenced well has been plugged in accordance with the approved plan and is ready for final inspection.



14. I hereby certify that the foregoing is true and correct
 Signed William C. Kirkwood Title Engineer Date 10/25/99

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

KIRKWOOD OIL & GAS

11 04 1999 10:23AM FROM KIRKWOOD OIL & GAS TO 1001355340 P.01

Fax Cover This is a confidential message, intended solely for the person to whom it is addressed. If you receive this message in error, please forward it to the correct person, or mail it back to us. Thank you.

To Carol Daniels
Fax No. 801-359-3940
From Robert Kirkwood
Date/Time 11/4/1999 at 9:22AM
Subject Utah well P & A dates
Pages 1, including this one

Carol:

The P&A dates you requested are as follows:

- Monroe 22-20 10/7/99
- Magnum 23-8 10/8/99 *(TA Start)*
- Cromwell 33-29 10/9/99
- White Rim 44-31 10/5/99
- Technology 14-36 10/8/99
- Garfield 44-15 8/19/92
- Remington 14-15 8/19/92
- Winfield 21-15 8/18/92

If you need more information please let me know.

307 265-5178

Fax 307 265-1791