



POWERS ELEVATION

OIL WELL ELEVATIONS — LOCATIONS  
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES  
600 SOUTH CHERRY STREET, SUITE 1201  
DENVER, COLORADO 80222  
PHONE NO. 303/321-2217

September 9, 1981

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

RE: Filing Application for Permit to Drill

Odegard Resources, Inc.  
Federal B #1  
NW SW Sec. 17 T17S R24E  
2100' FSL & 900' FWL  
Grand County, Utah

RECEIVED  
SEP 11 1981  
DIVISION OF  
OIL, GAS & MINING

Gentlemen:

Enclosed are three copies each of the Federal A.P.D. Form 9-331C, the Location and Elevation Plat, the Ten-Point Compliance Program, and the Blowout Preventer Diagram for the above-referenced well location.

Please return the approved copies to:

Cameron I. Downey  
Odegard Resources, Inc.  
3070 One Denver Place  
999 18th Street  
Denver, Colorado 80202

Very truly yours,

POWERS ELEVATION

*Connie L. Frailey*

Connie L. Frailey  
Vice President, Environmental Services

CLF:sb  
Enclosures

cc: Odegard Resources, Inc., 3070 One Denver Place, 999 18th Street,  
Denver, Colorado 80202, Attn: Mr. Cam Downey

**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  
Odegard Resources, Inc.

3. ADDRESS OF OPERATOR  
3070 One Denver Place, 999 18th Street, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 2100' FSL & 900' FWL (NW SW)  
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
The location is 39.0 miles Northwest of Mack, Colorado.

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 900'

16. NO. OF ACRES IN LEASE 2222.62

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

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

19. PROPOSED DEPTH 5650'

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6648' GR

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	9 5/8" New	36# K-55 ST&C	200'	Class "G" + additives
8 3/4"	7" New	20# K-55 ST&C	2000'	50/50 Poz + additives
6 1/2"	4 1/2" New	11.6# N-80 LT&C	5650'	50/50 Poz + additives

1. Drill 12 1/2" hole and set 9 5/8" surface casing to 200' with good returns.
2. Drill 8 3/4" hole and set 7" intermediate casing to 2000'.
3. Log B.O.P. checks in daily drill reports and drill 6 1/2" hole to 5650'.
4. Run tests if warranted and run 4 1/2" casing if productive.
5. Run logs, as needed, and perforate and stimulate as needed.

**EXHIBITS ATTACHED:**

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirements for A.P.D.
- "E" & "E<sub>1</sub>" Access Road Maps to Location
- "F" Radius Map of Field
- "G" & "G<sub>1</sub>" Drill Pad Layout, Production Facilities & Cut-Fill Cross-Sections

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 Robert C. Robinson TITLE Denver Manager DATE July 1, 1981

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

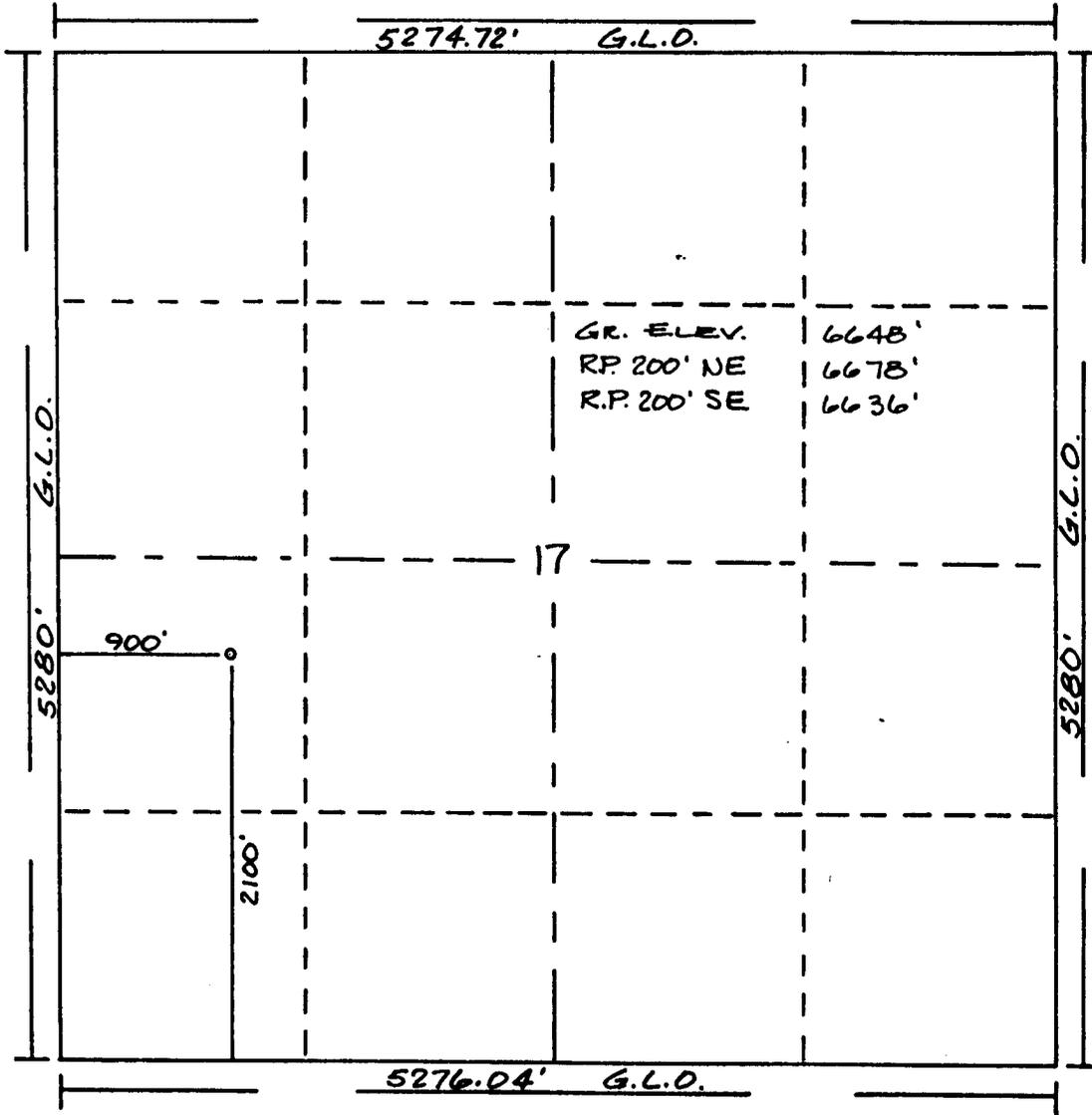
**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**  
 DATE: 12-10-81  
 BY: [Signature]

5. LEASE DESIGNATION AND SERIAL NO.  
SL 078192  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A  
 7. UNIT AGREEMENT NAME  
N/A  
 8. FARM OR LEASE NAME  
Federal  
 9. WELL NO.  
B #1  
 10. FIELD AND POOL, OR WILDCAT  
Westwater  
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 17 T17S R24E  
 12. COUNTY OR PARISH  
Grand  
 13. STATE  
Utah

**RECEIVED**  
 1981  
 DIVISION OF  
 OIL, GAS & MINING



R. 24 E.



T. 17 S.

Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
 has in accordance with a request from CAM DOWNEY  
 for ODEGARD RESOURCES, INC.  
 determined the location of FEDERAL B#1  
 to be 2100' FSL & 900' FWL Section 17 Township 17 South  
 Range 24 EAST OF THE SALT LAKE Meridian  
 GRAND County, UTAH

I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of  
 FEDERAL B#1

Date: July 10, 1981

Edward A. Lewis  
 Licensed Land Surveyor No. 5443  
 State of UTAH

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C  
Odegard Resources, Inc.  
Federal B#1  
NW SW Sec. 17 T17S R24E  
2100' FSL & 900' FWL  
Grand County, Utah

1. The Geologic Surface Formation

The surface formation is the Mesaverde.

2. Estimated Tops of Important Geologic Markers

Castlegate	1585'
Mancos	1695'
Dakota "Silt"	5185'
Dakota	5268'
Morrison	5430'
Total Depth	5650'

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

Castlegate	1585'	Gas
Dakota	5268'	Gas
Morrison	5430'	Gas

No water zones are anticipated.

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE &amp; JOINT</u>	<u>NEW OR USED</u>
12-1/4"	0-200'	200'	9-5/8"	36# K-55 ST&C	New
8-3/4"	0-2000'	2000'	7"	20# K-55 ST&C	New
6-1/4"	2000'-5650'	3650'	4-1/2"	11.6# N-80 LT&C	New

Cement Program -

Surface (9-5/8") - Class "G" with 3% CaCl<sub>2</sub> and 1/4# Flocele; cement to surface. ✓

Intermediate (7") - 50/50 Poz with 2% gel, 5% KCL, 0.4% Halad 9, and 2% CaCl<sub>2</sub>; cement to 500' above Castlegate.

Production (4-1/2") - Same as for Intermediate casing; cement to 500 feet above pay zone.

5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and double-ram annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper kelly cock, floor safety valve, and 2"-2000# choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

This well will be drilled with air or air mist from surface to total depth. Exhaust will be muffled. Other down hole materials will be on site to handle any anticipated down hole problems as well as possible spill of fluid on the surface.

7. The Auxiliary Equipment to be Used

- (a) An upper kelly cock will be kept in the string.
- (b) A float will be used at the bit.
- (c) Neither a mud logging unit nor gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

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

- (a) No DST's are anticipated.
- (b) The logging program will consist of the following:
  - DIL: Total depth to intermediate casing
  - SNP-GR: Total depth to 5050' (Dakota-Morrison)  
3300' to intermediate casing (Mancos "B")
  - FDC-GR: Same intervals as SNP-GR
- (c) No coring is anticipated.
- (d) Stimulation procedures will be to perforate zones of interest, acidize and frac with KCL water. If treatment is indicated and when treatment program has been formalized, appropriate Sundry Notice will be submitted for approval.

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. Bottom hole pressure expected is 1000-1100 psi.

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 August 15, 1981, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within two weeks after spudding the well to intermediate casing point.

9'-7" B. ROT. T. TO C.L.

8'-6 1/2" B. ROT. BERM TO C.L.

12" - 900  
GRANT  
ROT  
HEAD

12" - 900  
HYDRIL

12" - 900  
DBL HYD  
SHAFFER

12" - 900  
CS&ND

BLEWIE LINE

COMBINATION KILL LINE  
FILL-UP LINE

POSITIVE CHOKE

TO PIT OR TANKS

2" 400 CR VALVE

2" 400 PLUG VALVE

GUAGE

2" 400 PLUG VALVE

TO PIT OR TANKS

B.R.P.

2" 400 PLUG VALVES

GRD.  
LEVEL

2" 400 PLUG VALVE

TO PIT OR TANKS

ADJUSTABLE CHOKE

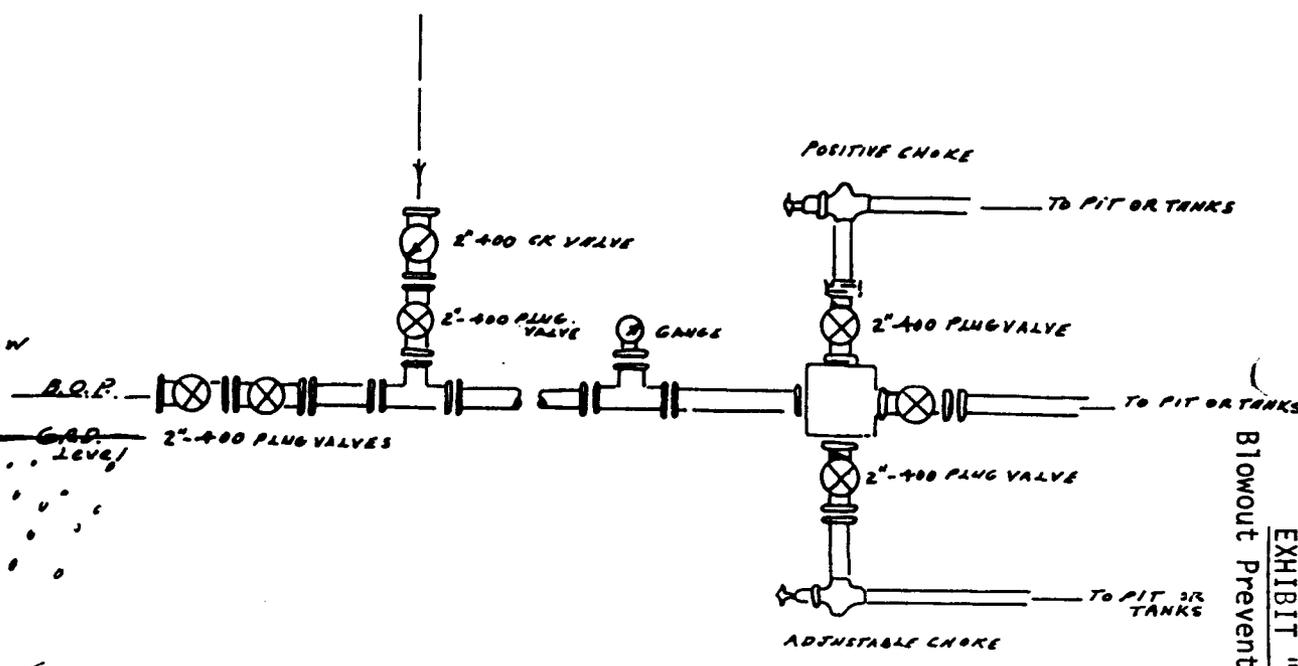
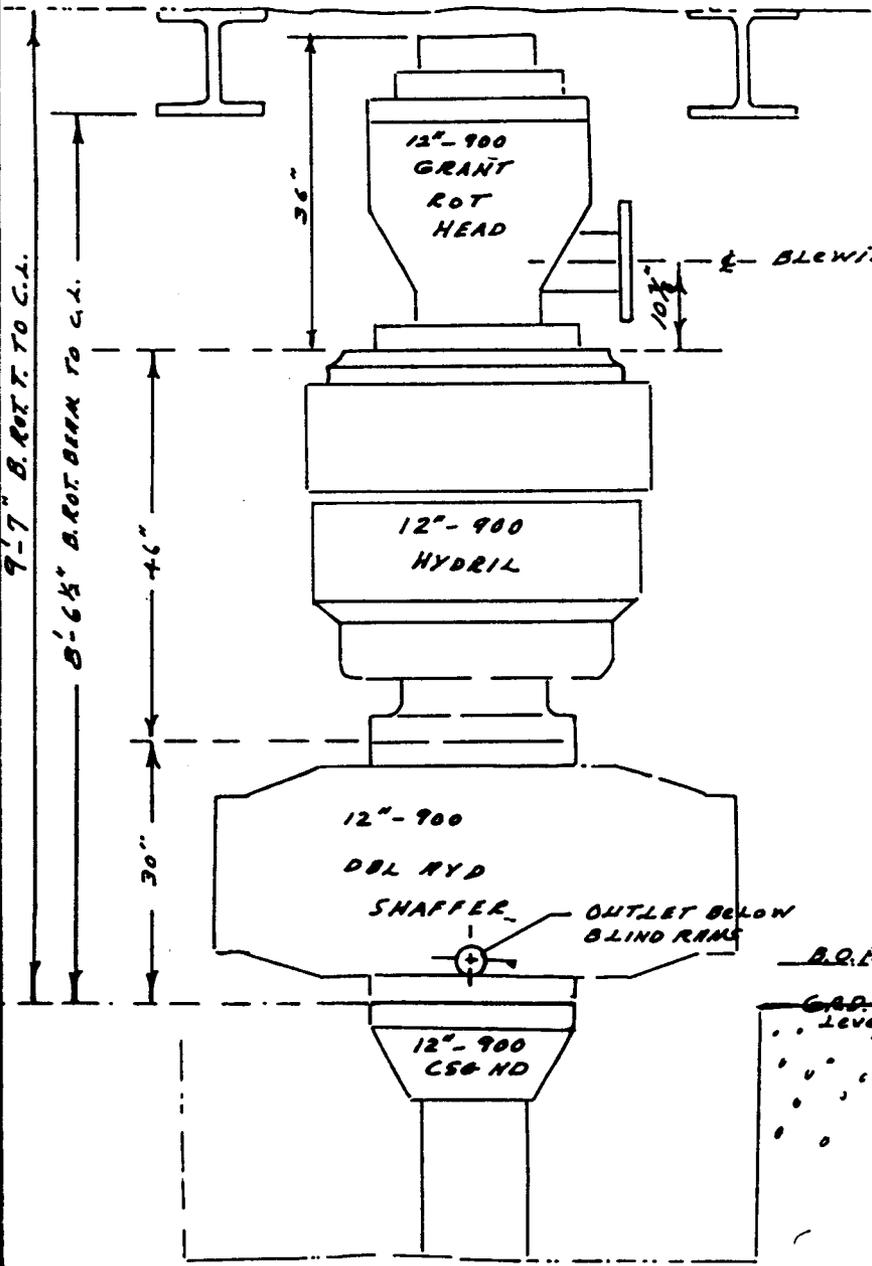


EXHIBIT "C"  
Blowout Preventer Diagram

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

SL 078192-071892

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Federal

9. WELL NO.

B #1

10. FIELD AND POOL, OR WILDCAT

Westwater

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA

Sec. 17 T17S R24E

12. COUNTY OR PARISH 13. STATE

Grand

Utah

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

Odegard Resources, Inc.

3. ADDRESS OF OPERATOR

3070 One Denver Place, 999 18th Street, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface

2100' FSL & 900' FWL (NW SW)

At proposed prod. zone

same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

The location is 39.0 miles Northwest of Mack, Colorado.

15. DISTANCE FROM PROPOSED\*  
LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.

900'

(Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE

2222.62

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

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

---

19. PROPOSED DEPTH

5650'

20. ROTARY OR CABLE TOOLS

Rotary

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

6648' GR

22. APPROX. DATE WORK WILL START\*

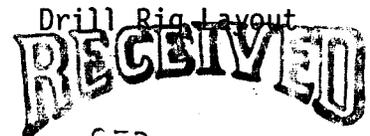
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EXHIBITS ATTACHED:

- |                         |   |     |                  |
|-------------------------|---|-----|------------------|
| "A"                     | Location and Elevation Plat                                       | "H" | Drill Rig Layout |
| "B"                     | The Ten-Point Compliance Program                                  |     |                  |
| "C"                     | The Blowout Preventer Diagram                                     |     |                  |
| "D"                     | The Multi-Point Requirements for A.P.D.                           |     |                  |
| "E" & "E <sub>1</sub> " | Access Road Maps to Location                                      |     |                  |
| "F"                     | Radius Map of Field   |     |                  |
| "G" & "G <sub>1</sub> " | Drill Pad Layout, Production Facilities & Cut-Fill Cross-Sections |     |                  |



SEP 25 1981

DIVISION OF  
OIL, GAS & MINING

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24. SIGNED Robert C. Robinson TITLE Denver Manager DATE July 1, 1981

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY W.P. Montoya FOR E. W. GUYNN  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ TITLE DISTRICT OIL & GAS SUPERVISOR DATE SEP 24 1981

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

date of G

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Odegard Resources, Incorporated  
 Project Type Gas Well - Development  
 Project Location 2100' FSL & 900' FWL - Section 17, T. 17S, R. 24E -  
 Well No. B #1 Lease No. SL-071892  
 Date Project Submitted August 3, 1981

FIELD INSPECTION Date August 19, 1981

Field Inspection Participants	<u>Craig Hansen</u>	<u>USGS - Vernal</u>
	<u>Elmer Duncan</u>	<u>BLM - Moab</u>
	<u>Jeff Robbins</u>	<u>BLM - Moab</u>
	<u>Don Dunkley</u>	<u>Odegard Resources</u>
	<u>Ed Lewis</u>	<u>Powers Elevation</u>
	<u>Leonard Lewis</u>	<u>Dirt Contractor</u>

Related Environmental Documents: \_\_\_\_\_

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

9-23-81  
 Date Prepared

*[Signature]*  
 Environmental Scientist

I concur  
SEP 24 1981  
 Date

*[Signature]* FOR E. W. GUYNN  
 DISTRICT OIL & GAS SUPERVISOR  
 District Supervisor

Typing In August 21, 1981 Typing Out August 24, 1981



## CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey  
(Conservation Division, Geological Division, Water Resource Division,  
Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

RECOMMENDED STIPULATIONS FOR ODEGARD RESOURCES B#1

1. Operator will obtain right-of-way for road and pipeline from the Moab BLM prior to any APD approval.
2. Production facilities will be painted an olive green color and placed on the north edge of the location to blend in with the natural surroundings.
3. Trees will be piled on the southeast corner of the location to be used in reclamation efforts.
4. The access road will be rerouted per attached map to reduce length of road and environmental affects.
5. Operator will adhere to BLM surface stipulations.

ADDITIONS TO THE MULIPOINT  
SURFACE USE PLAN  
AND  
RECLAMATION PROCEDURES

CONSTRUCTION:

- 1). The operator or his contactor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
- 2). The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
- 3). Use of water from sources such as well, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
- 4). If subsurface cultural material is exposed during construction work in that spot will stop immediately and the Grand Resource Area Office will be contacted.) All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. (Salvage or excavation of indentified archaeological sites will only be done if damage occurs.
- 5). Improvement to the existing road will not be necessary. The allowable travel surface will be as is.

New road construction will be limited to a total disturbed width of 24 feet. The allowable travel surface width will be 18 feet. For construction design and survey refer to class III road standards attachment.

Trees will be windrowed and the placement of trees left up to the discretion of the dirt contractor.

Topsoil will be saved along the route between the trees and the road.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

Surface material will not be placed on the access road or location without prior BLM approval.

- 6). The top 0-6 inches of soil material will be removed from the location and stockpiled separate from the trees on the northwest side of the location (refer exhibit "H"). There will be very little topsoil available. The site consists mainly of rocks..

Trees will be placed above topsoil (refer exhibit "H") and "walked down".

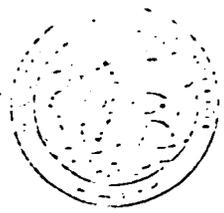
7. The reserve pit will be lined with commercial bentonite or plastic sufficient to prevent seepage. Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8" lifts, machinery compacted, and sufficiently wide for equipment to pass over. There will be a 2" to 3" of bentonite mixed in.
8. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying. The fence will be 4 strand barbed wire.

## Rehabilitation

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash pit/cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his contractor will contact the Grand Resource Area BLM office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal ect.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. All disturbed areas will be scarified with the contour to a depth of 12 inches. Do not smooth pads out, leave roughened surface.
7. Seed will be (broadcast/drilled at a time to be specified by the BLM with the enclosed seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.
8. After seeding is complete the stockpile trees will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent any use/vehicle use.

## Production

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Any remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
2. All above-ground production facilities will be painted using the attached suggested colors.
3. The access will be to the design of a Class III road.



United States Department of the Interior  
BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS  
PRODUCTION FACILITIES

Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Frait & Lambert)
Desert Tan	-----
Sage Gray	(Frait & Lambert)

Bookcliffs Region:

Sage Gray	(Frait & Lambert)
Sea Life	(Frait & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

SEED MIXTURE

Bookcliff

List #4

Species

Grasses

*Elymus salinus*

*Oryzopsis hymenoides*

*Agropyron cristatum*

Salina wildrye

Indian ricegrass

Crested wheatgrass  
(Fairway crested wheatgrass)

Forbs

*Hedysarum boreale* var *utahensis*

*Melilotus officinalis*

*Sphaeralcea coccinea*

Utah northern sweetvetch

Yellow sweetclover

Scarlet globemallow

Shrubs

*Amelanchier utahensis*

*Atriplex canescens*

*Cowania mexicana*

Utah verviceberry

Fourwing saltbush  
(White greasewood)

Mexican cliffrose

# CLASS III ROADS

## SECTION 1

### SURVEY AND DESIGN

Definition - Class III roads are those existing or proposed roads which serve the development of a very limited area (i.e. one or two oil or gas wells) of a depletable natural resource. When the purpose for which the road was constructed no longer requires access, the road will be rehabilitated unless otherwise directed by BLM.

#### 1. Field Survey Requirements

- (A) Establish a flag line along the route of construction. The flag line shall be sufficiently marked to insure construction control. Flag intervals shall not exceed 100 feet, or be intervisible whichever is less.

#### 2. Design Requirements

- (A) Design speed 15 mph.
- (B) Travel way width - minimum 16 feet, maximum 20 feet (exceptions may be made to width requirements if approved by BLM prior to construction).
- (C) Minimum horizontal curve radius, 115 feet (maximum degree of curve 50° unless a shorter radius is approved by BLM prior to construction).
- (D) The road shall be outsloped from 2 to 4 percent on side hill sections where the cross slope is greater than 10 percent but less than 65 percent, the road grade is less than 10 percent and the soil contains over 50 percent rock or gravel. On all other side hill sections the road shall have an inside ditch.
- (E) Maximum grade 10 percent (except pitch grades\*)
- (F) Turnouts (on roads having a travel surface width of less than 20 feet) shall be located at intervals of 1,000 feet or within sight distance, whichever is less.
- (G) Culverts shall be used when they are the only alternative to drainage control.

\* Pitch grades are defined as those grades exceeding 10% which are necessary because of topography, i.e. low water crossings. Such grades shall not extend over 300 feet in length, nor shall they be used to circumvent the intent of these stipulations. Maximum pitch grade shall be 15 percent.

- (H) Drainage control shall be insured over the entire road through the use of natural rolling topography, ditch turn-outs, drainage dips, outsloping, or culverts.

The Company shall submit to the BLM two copies of a road location map prior to beginning construction. The map shall show the location and size of all culverts planned. Review of the road plan will be done by the BLM at or prior to the pre-drill conference.

### 3. Construction Control

The road shall be constructed along the approved flag line.

THE COMPANY SHALL PROVIDE A COMPETENT ON SITE INSPECTOR DURING CONSTRUCTION OF THE ROAD TO INSURE COMPLIANCE WITH ALL STIPULATIONS. THE INSPECTOR SHALL BE DESIGNATED AT THE PRE-DRILL CONFERENCE, AND SHALL BE GIVEN AN APPROVED COPY OF ALL MAPS AND STIPULATIONS PRIOR TO START OF CONSTRUCTION. THE BLM WILL ALSO DESIGNATE A REPRESENTATIVE FOR THE PROJECT AT THE PRE-DRILL CONFERENCE.

## SECTION 2

### CONSTRUCTION STANDARDS

#### 1. Public Convenience and Safety

The Company shall take all necessary precautions for the protection of the work and safety of the public during construction of the road.

Warning signs shall be posted wherever directed during blasting operations.

#### 2. Clearing and Grubbing

Clearing and grubbing shall be carried out on all sections of the road where side slopes are less than 60 percent.

All clearing and grubbing shall be confined to the limits of actual construction unless otherwise authorized by the BLM.

Branches of trees extending over the roadbed shall be trimmed to give a clear height of 14 feet above the roadbed surface. All perishable material resulting from clearing and grubbing operations shall be disposed of as specified at the pre-drill conference.

#### 3. Excavation

Prior to beginning excavation and fill placement operations, all vegetation or debris within the designated limits of the roadway, except such objects as are designated to remain in place, are to be removed and disposed of as provided in Paragraph #2. All suitable material removed during excavation operation shall be used as far as practicable in the formation of the embankments and for other purposes as directed by the BLM. i.e. topsoil, stockpiling.

#### 4. Embankment Construction

Embankment material shall not be placed when either the materials or the surface on which they will be placed are frozen or too wet (as determined by BLM) for satisfactory compaction.

The Contractor shall route his construction equipment over the layers of embankment material already in place to avoid uneven compaction anywhere along the travel route.

Borrow material shall not be used until all of the accessible roadway excavation has been placed in the embankments unless otherwise permitted by the BLM.

Furrow ditches shall conform to the slope, grade and shape of the required cross section, with no projections of roots, stumps, rocks or similar matter. Furrow ditches shall be "V" type ditches excavated to a depth of one foot minimum, below finished road surface. Furrow ditch backslopes shall not be cut flatter than 1 1/2:1.

All slopes, shoulders and road surfaces shall be finished smoothly and in accordance with the lines and grades shown on the drawings.

5. Drainage Dip Construction

Drainage dips shall be spaced in accordance with the following table:

Road grade (%)	Material				
	Hard sediment	Basalt	Granite	Glacial silt	Andesite
-----cross-drain spacing, feet -----					
2	165	155	135	135	105
4	150	135	125	120	90
6	145	130	115	110	80
8	135	125	110	105	75
10	125	115	95	95	65

Culvert pipes shall be used for cross drains on grades in excess of 10 percent.

(A) Construction Requirements

Construction shall be as specified in paragraphs 3 and 4, and as shown on the drawings.

6. Seeding

(A) The Company shall carry out erosion control items of vegetation establishment during the season established for seeding. Vegetation establishment shall be completed on areas of disturbance as they are completed if actual construction is being accomplished during the seeding season.

Seeding shall be carried out on all of the areas described as follows:

- (1) On cut slopes, and shall extend from the bottom of the ditch to the top of the cut slope.
- (2) On embankment slopes, and shall extend from the roadway shoulder to the toe of the embankment slope.
- (3) On all borrow pit areas.
- (4) On all "side cast" in areas of full bench construction.

(B) Seeding season shall be from September 15 to December 15, or as otherwise allowed by the BLM.

(C) Seed application will be by seed drill or broadcasted and harrowed; other methods will require prior BLM approval.

(D) Species and application rates are as follows:

Type of Grass Seed

Application Rate\*

\* These rates will be increased by 2.5 times if seed is broadcasted.

THE COMPANY SHALL COMPLETE CONSTRUCTION OF THIS ROAD IN ACCORDANCE WITH ALL STIPULATIONS AND HAVE IT APPROVED BY BLM PRIOR TO WELL SPUDDING.

SECTION 3

ROAD MAINTENANCE STANDARDS

The completed road shall be maintained to the following standards as applicable for the term of use.

1. Travel Way

- (A) Roadbed is smooth, free of ruts, chuckholes, rocks, slides, washboards; crowned and/or sloped for drainage.
- (B) Free from excessive accumulation of dust pockets or layers which are a driving hazard or public nuisance.
- (C) Berms shall be absent along the shoulder.
- (D) Soft spots, such as those resulting from springs and seeps, shall be absent.

2. Shoulders

- (A) Shoulders are straight and present a uniform line with the surface free from large rocks, limbs, or stumps.

3. Ditches and Drainage Dips

- (A) Original cross section shall be maintained. Drainage area clear of rocks, slides and sediments.
- (B) Vegetation or sedimentation does not restrict ditch flow or reduce the waterway area.
- (C) Ditch bottom is stable and is not excessively eroded.
- (D) Back slope area above ditches is stable.

4. Other Related Road Features

- (A) Right-of-way free of excessive or objectional litter.

5. Fences, Gates and Cattleguards

- (A) Posts are sound, plumb and secure.
- (B) Wire is tight and securely fastened to the posts.
- (C) Stays are uniformly spaced and vertical between posts and affixed to keep the strands properly spaced.
- (D) Rock deadmen are properly secured to the fence.

- (E) Gates are free from deterioration, damage to structural sections or loose hardware.
- (F) Cattleguard pits are clean and functional. End wings securely fastened and serviceable. Guard and base in serviceable condition.

6. Fords and Low Water Crossings

- (A) There is a smooth transition between road and ford.
- (B) No excessive erosion adjacent to the structure.
- (C) The surface of the structure is clear of debris, brush, rocks and sediment.
- (D) Bottom of crossing is level with stream bottom.

7. Safety and Hazard Control

- (A) Sight distance free of shrubs, trees and obstacles and meets design standards.
- (B) Travel way and ditches free of overhanging trees and limbs. No down trees or branches in ditch area.
- (C) No unstable material above the roadway.

SECTION 4

ROAD RECLAMATION STANDARDS

1. Natural contours will be restored wherever practical. Roads with significant cuts will have fill material placed back onto cut sections using care not to mix topsoils with base material.
2. All road surfaces shall be ripped, scarified, or otherwise roughened as directed by BLM to insure increased water infiltration and a properly prepared seed bed.
3. All road berms will be removed and recontoured.
4. Waterbars will be used on all sloping surfaces as shown below:

<u>Grade</u>	<u>Spacing</u>
2%	200 ft. spacing
2-4%	100 ft. spacing
4-5%	75 ft. spacing
+5%	50 ft. spacing

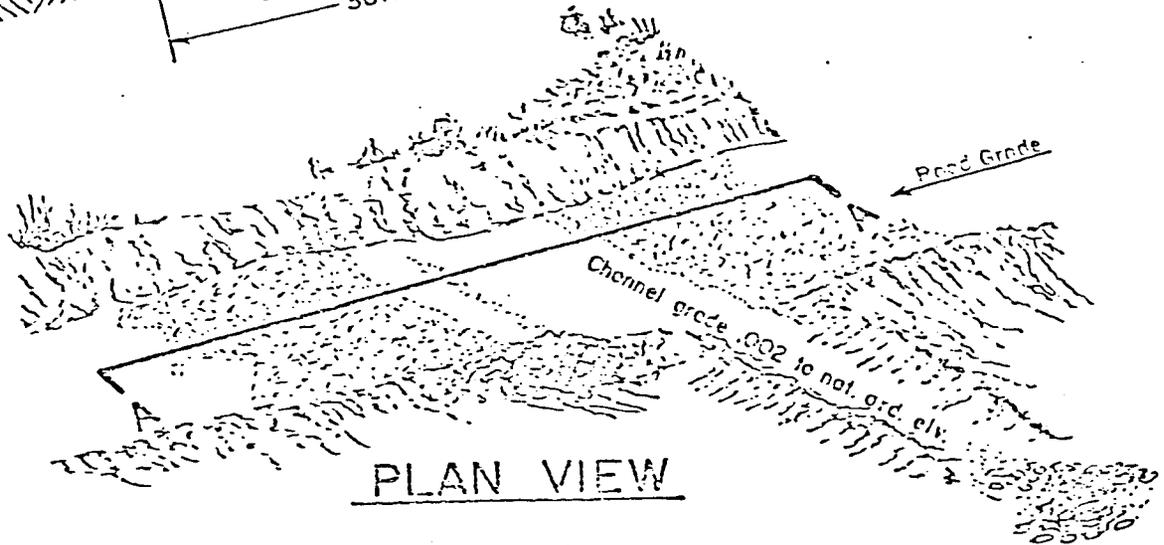
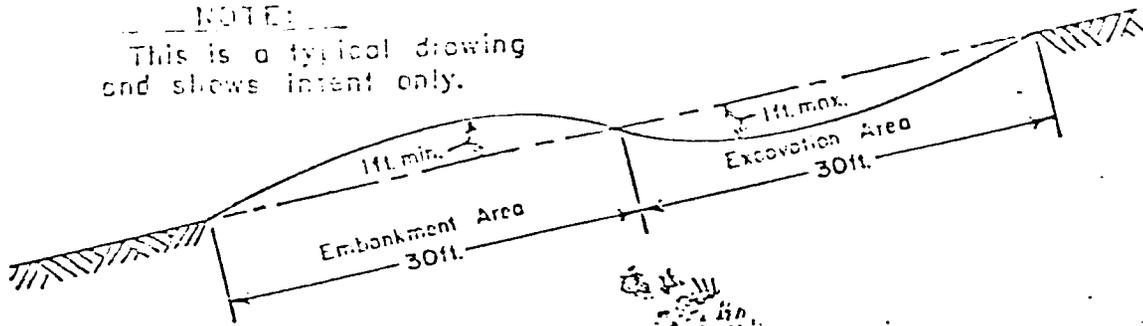
5. Rehabilitated areas will be seeded as follows:

<u>Species</u>	<u>Rate *</u>
----------------	---------------

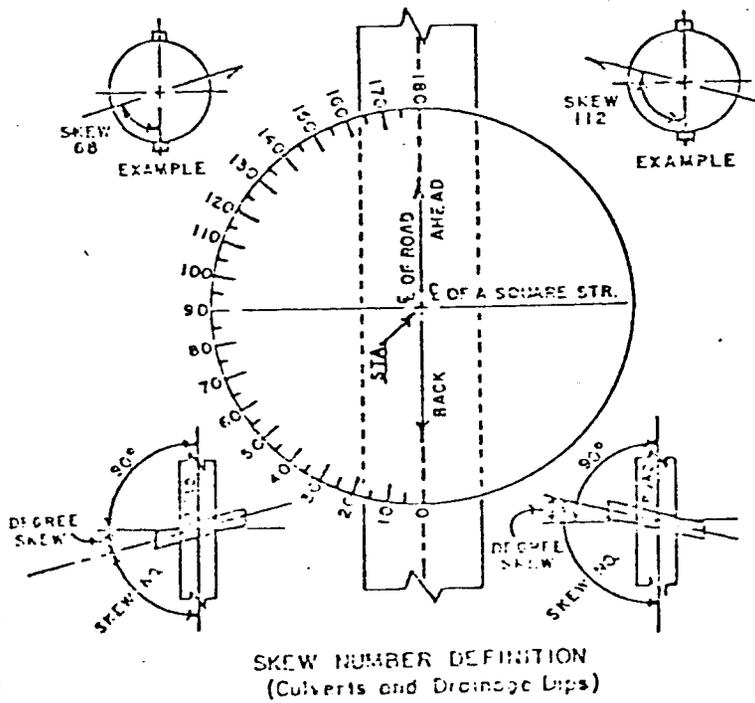
\* These rates will increase 2.5 times if broadcasted.

# TYPICAL DRAINAGE DIP SECTION A-A

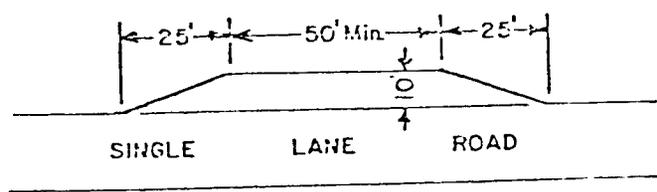
**NOTE:**  
This is a typical drawing and shows intent only.



**PLAN VIEW**

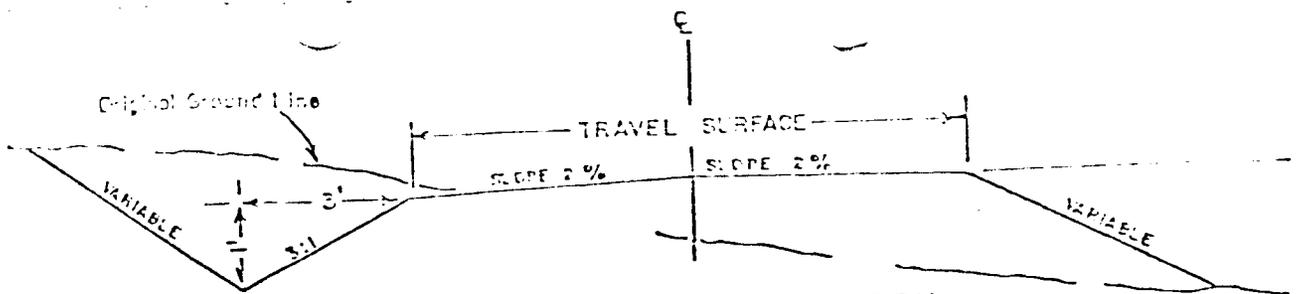


**SKEW NUMBER DEFINITION**  
(Culverts and Drainage Dips)

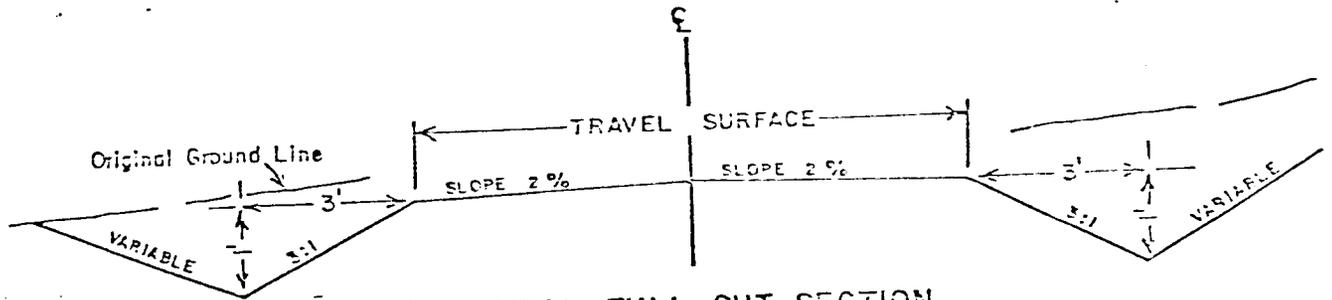


**TYPICAL TURNOUT**

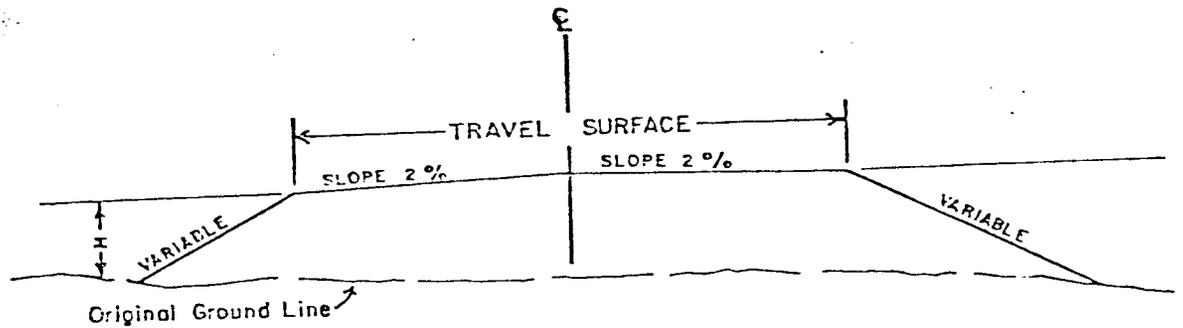
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
TYPICAL ROAD SECTIONS	
DESIGNED R.A.D. _____	RECOMM. _____
DRAWN <u>J.H.S.</u>	RECOMM. <u>Robert G. Baller</u>
CHECKED <u>RAD</u>	APPROVED <u>[Signature]</u>
SCALE: NONE	
DATE: <u>8-5-81</u>	SHEET: <u>   </u> OF <u>   </u>
DRAWING NO. _____	



TYPICAL SIDE HILL SECTION



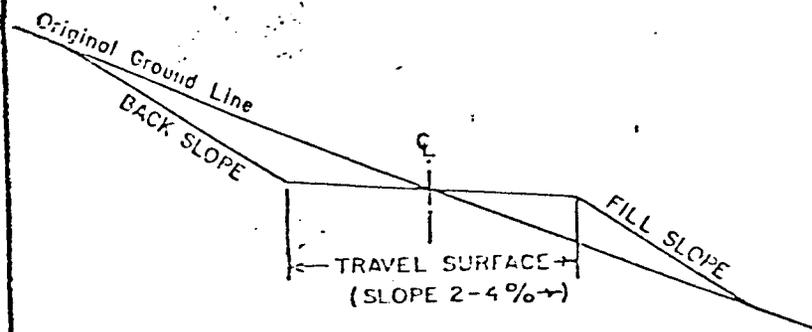
TYPICAL FULL CUT SECTION



TYPICAL EMBANKMENT SECTION

Soil Conditions	Natural Ground Slope	Back Slope
Normal Soil	0 - 30 %	1 1/2 : 1
Normal Soil	30 - 55 %	1 : 1
Normal Soil	55 % and over	3/4 : 1
Solid Rock	All Slopes	1/4 : 1

When the cuts are relatively shallow (under 4 feet), steeper slopes of 2 to 1 or 3 to 1 may be used.



TYPICAL OUTSLOPED SECTION

U. S. DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

TYPICAL ROAD SECTIONS  
(Class III)

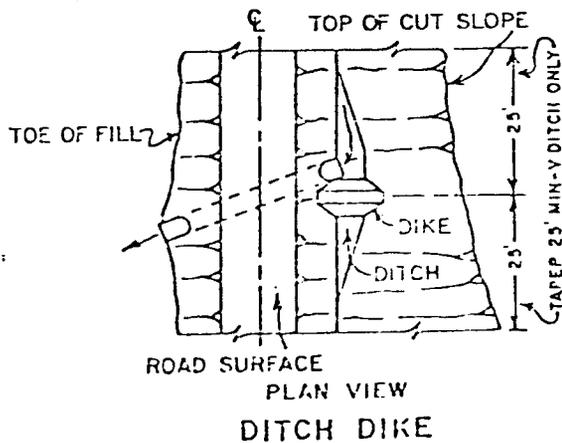
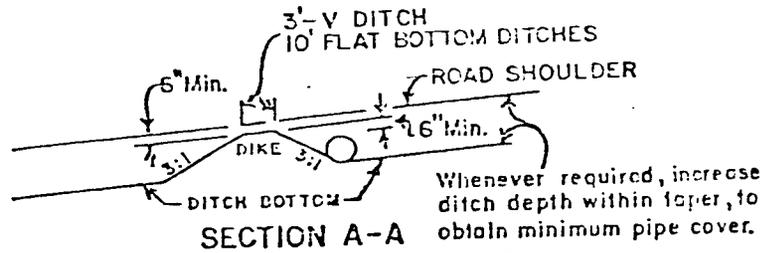
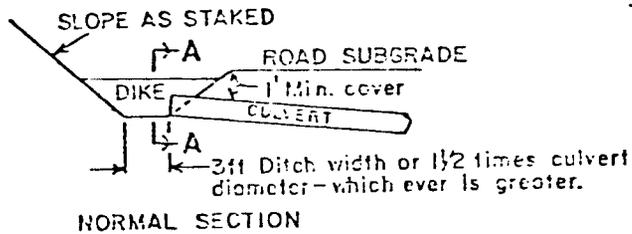
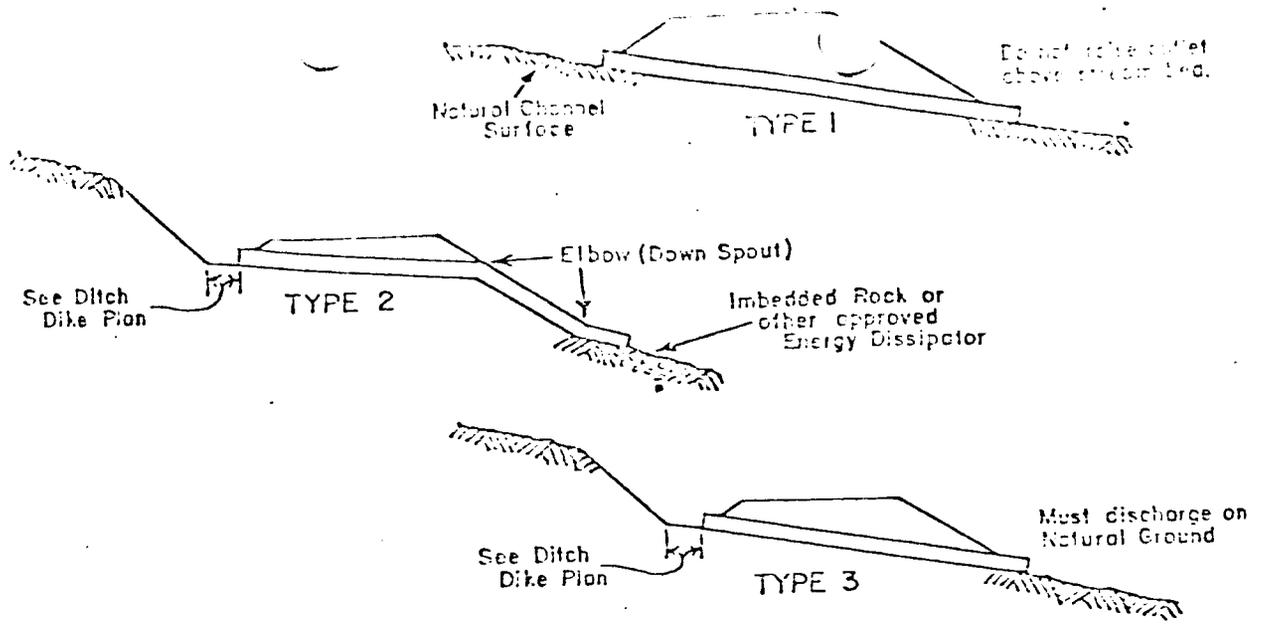
DESIGNED <u>R.A.D.</u>	RECOMM. _____
DRAWN <u>J.H.S.</u>	RECOMM. <u>Robert G. Miller</u>
CHECKED <u>R.A.D.</u>	APPROVED <u>[Signature]</u>

SCALE NONE

DATE 3-5-81

SHEET \_\_\_\_\_ OF \_\_\_\_\_

DRAWING NO. \_\_\_\_\_



U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	
TYPICAL CULVERT INSTALLATIONS	
DESIGNED R.A.D.	RECOMM. _____
DRAWN J.H.S.	RECOMM. <i>J.H.S.</i>
CHECKED <i>J.H.S.</i>	APPROVED <i>J.H.S.</i>
SCALE NONE	
DATE 8-5-81	SHEET ___ OF ___
DRAWING NO.	

U.S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: STAFF GEOLOGIST, OIL & GAS, UNIT AGREEMENT SECTION, LAKEWOOD, CO

TO: DISTRICT ENGINEER, OIL & GAS, SALT LAKE CITY, UT

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. SL-071892

OPERATOR: ODEGARD RESOURCES, INC.

WELL NO. B#1

LOCATION: 2100' FSL & 900' FWL NW 1/4 SW 1/4 sec. 17, T. 17S, R. 24E, S.L.M.  
GRAND, County, UTAH

1. Stratigraphy: The surface rocks are Mesaverde (Brice River Formation). The estimated tops by the operator appear reasonable.

Castlegate - 1585'

Mancoos - 1695'

Dakota - 5268'

Morrison - 5430'

2. Fresh Water:

Fresh / usable water may occur in the Mesaverde and in the Castlegate Sandstone member of the Mancoos Shale.

3. Leasable Minerals:

Coal beds are present in the Nesden coal-bearing member of the Brice River Formation in this area. However, Fisher (U.S.G.S. Bull. 852, pp. 97) stated that no coals of possible economic value were present in this township.

4. Potential Geologic Hazards:

None anticipated.

5. Additional logs Needed:

None

6. References and Remarks:

\* Protect all fresh water aquifers penetrated.  
 U.S.G.S Bull. 852 (Fisher)

Signature: Ronald E. Dunnington

Date: 8/21/81

\*\* FILE NOTATIONS \*\*

DATE: September 30, 1981

OPERATOR: Odegaard Resources, Inc.

WELL NO: Fed. B. #1

Location: Sec. 17 T. 17S R. 24E County: Grand

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-019-30892

CHECKED BY:

Petroleum Engineer: W. J. Minder 12-10-81  
Per call to C. Downey 10-15-81 Scheduled for Nov  
training

Director: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: OR as per order below,  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 47-5, 11-19-81

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

Plotted on Map

Approval Letter Written

Hot Line

P.I.

December 10, 1981

Odegard Resources, Inc.  
3070 One Denver Place  
999 18th Street  
Denver, Colorado 80202

RE: Well No. Federal B #1  
Sec. 17, T. 17S, R. 24E,  
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 47-5 dated November 19, 1981.

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

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

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

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

The API number is assigned to this well is 43-019-30892.

Sincerely,

DIVISION OF OIL, GAS AND MINING



Michael T. Minder  
Petroleum Engineer

MTM/as  
cc: USGS

*Confidential*

# Odegard Resources, Inc.

3070 ONE DENVER PLACE  
999 18TH STREET  
DENVER, CO 80202  
303-623-4732

May 14, 1982

Ms. Cari Furse  
State of Utah Div.  
of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

RE: ~~Westwater Unit #5  
Sec. 18-17S-24E  
Grand County, Utah  
D-35-U~~

Dear Ms. Furse:

With reference to your letter of May 12, 1982, we have set production casing on the captioned well, but we have not yet completed it. We expect to this summer. Thus we have not filed a completion report.

The same is true of our Federal "B" #1 in Sec. 17-17S-24E, Grand County, Utah.

Very truly yours,

ODEGARD RESOURCES, INC.

*Robert C. Dickinson*  
Robert C. Dickinson  
Denver Manager

RCD/syb

MAY 21 1982

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See instructions on reverse side)

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

12

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

5. LEASE DESIGNATION AND SERIAL NO. **SL-071892**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME **NA**

7. UNIT AGREEMENT NAME **NA**

8. FARM OR LEASE NAME **Federal**

9. WELL NO. **"B" #1**

10. FIELD AND POOL, OR WILDCAT **Westwater**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA **NWSW Sec. 17-17S-24E**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. REVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR **ODEGARD RESOURCES, INC.; 3070 One Denver Place;**

3. ADDRESS OF OPERATOR **999 18th Street; Denver, Colorado 80202**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **2100' FSL & 900' FWL Sec. 17-T17S-R24E**  
At top prod. interval reported below  
At total depth

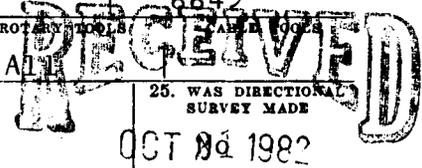
14. PERMIT NO. \_\_\_\_\_ DATE ISSUED **9/24/81**

15. DATE STUDDED **10/12/81** 16. DATE T.D. REACHED **4/7/81** 17. DATE COMPL. (Ready to prod.) **10/15/82** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **6660 KB.** 19. ELEV. CASINGHEAD **6642'**

20. TOTAL DEPTH, MD & TVD **5849' KB** 21. PLUG, BACK T.D., MD & TVD **5830' KB** 22. IF MULTIPLE COMPL., HOW MANY\* **none** 23. INTERVALS DRILLED BY **ALL**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**5696-5704', 5748-5770', 5816-5821' All Morrison**

25. WAS DIRECTIONAL SURVEY MADE **OCT 04 1982**



26. TYPE ELECTRIC AND OTHER LOGS RUN **CNL-EDC & DTL-SFL-GR**

27. WAS WELL CORED **DIVISION OF OIL, GAS & MINING**

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36#	312' KB	12 1/4"	170 sxs-to surface	none
7"	20#	2154' KB	8 3/4"	300 sxs	none
4 1/2"	11.6#	5840' KB	6 1/4"	100 sxs	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	5606' KB	5608' KB

31. PERFORATION RECORD (Interval, size and number)

Buckhorn	5448-70'	(12 shots)
Morrison	5698-5704'	(4 shots)
Morrison	5743-58'	(6 shots)
Morrison	5817-20'	(3 shots)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5448-70	2000 gals 15% Mud Acid
5698-5820	Frac w/1100 bbis KCl water, 90 tons CO <sub>2</sub> , 13,500# 100 mesh 70,000# 20-40 sd.

33.\* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
10/15/82	24	NA	→	5	650	35	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
100	NA	→	5	650	35	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY **D. R. Dunckley**

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 D.R. Dunckley TITLE Engineer DATE 10/18/82

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

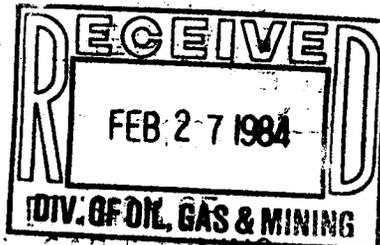
**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION		TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
NAME	MEAS. DEPTH			NAME	MEAS. DEPTH	TRUE WEST. DEPTH
Castlegate	1784	1824	Steady 10' flare while drilling w/air.	Castlegate	1784'	same
Mancos "B"	3210	3220	Connection flare while drilling w/air.	Base Mancos B	3270'	same
Frontier	5112	5146	½ hr. test while drilling w/air-26 MCFPD.	Dakota Silt	5242'	same
				Dakota	5326'	same
				Buckhorn	5438'	same
				Morrison	5472'	same

J. C. THOMPSON  
INDEPENDENT OIL OPERATOR  
410 - 17TH STREET, SUITE 1305  
DENVER, COLORADO 80202

February 14, 1984

STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining  
4241 State Office Bldg.  
Salt Lake City, UT 84114



Attn: Claudia Jones  
Well Records Specialist

RE: Utah Operated Wells

Dear Claudia,

Pursuant to your request, attached is a list of all producing wells which are operated by J. C. Thompson in the state of Utah.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Sandra S. Brown".

Sandra S. Brown

Enclosure

Westwater #3  
Sec 13, T17S-R23E, NENW  
Grand County, UT

Moon Ridge #31-15  
Sec. 15, T17S-R21E NWNE  
Grand County, UT

Segundo Canyon 2  
Sec 33, T16S-R21E SWSE  
Grand County, UT

Segundo Canyon 23-4  
Sec. 4, T17S-R21E NESW  
Grand County, UT

Westwater M-15  
Sec. 2, T17S-R23E NESE  
Grand County, UT

Bull Canyon #1 4970  
Sec. 4, T20S-R21E SWSE  
Grand County, UT

Westwater Federal C#1  
Sec. 12, T17S-R23E NENW  
Grand County, UT

Westwater Federal D#1  
Sec. 11, T17S-R23E SESE  
Grand County, UT

Westwater Federal B#1  
NWSE Sec. 17-T17S-R24E  
Grand County, UT

Westwater #5  
NESW Sec. 18-T17S-R24E  
Grand County, UT

Bull Canyon #1 104  
NWNE Sec. 4, T20S-R21E  
Grand County, UT

Federal #1  
SWSW Sec. 8-T17S-R24E  
Grand County, UT

Castlegate C-2  
SWNW Sec. 18-T17S-R24E  
Grand County, UT

Castlegate C-4  
NENW Sec. 13-T17S-R23E  
Grand County, UT

M-3 Horse Point  
NWNW Sec. 7-T17S-R24E  
Grand County, UT

M-4  
SENE Sec. 6-T17S-R24E  
Grand County, UT

M-6 Horse Point  
NESE Sec. 32-T17S-R24E  
Grand County, UT

E-2  
SWSE Sec. 7-T17S-R24E  
Grand County, UT

E-3  
NENW Sec. 17-T17S-R24E  
Grand County, UT

E-5  
NWNE Sec. 18-T17S-R24E  
Grand County, UT

Dakota M-1  
SESW Sec. 1-T17S-R23E  
Grand County, UT

Horse Point M-7  
SWNW Sec 6-T17S-R24E  
Grand County, UT

#1 Fed 675  
NENW Sec 10-T20S-R21E  
Grand County, UT

Castlegate C-5 (SI)  
NWSE Sec. 12-T17S-R23E  
Grand County, UT

Castlegate C-6  
SENE Sec. 18-T17S-R24E  
Grand County, UT

Castlegate C-7  
NESE Sec. 7-T17S-R24E  
Grand County, UT

Castlegate D-2  
NWNE Sec. 18-T17S-R24E  
Grand County, UT

Castlegate C-10  
NWNE Sec. 13-T17S-R23E  
Grand County, UT

THE FOLLOWING METERS WILL HAVE CALIBRATION / SETTLEMENT TESTS RUN ON THE DATES INDICATED. STARTING TIME WILL BE 0800 OR AS SPECIFIED BELOW AND AT THE OFFICE OF THE NORTHWEST PIPELINE GRAND JUNCTION DISTRICT YOU WILL BE NOTIFIED SHOULD ANY CHANGES OCCUR IN THIS SCHEDULE. IF YOU HAVE ANY QUESTIONS ABOUT THE SCHEDULE, CONTACT OR WRITE THE DISTRICT OFFICE.

METER CODE	WELL NAME	LOC	RUN	DAY	MO/YR	STARTING TIME
92300013	FEDERAL B #1 17S. 24E. 17	06	07	11	12/85	<u>0900</u>
92123014	FEDERAL 104 #1 20S. 21E. 10	06	13	6	11/85	<u>0900</u>
92127010	USA 4970 #1 20S 21E 4	06	13	6	11/85	<u>1100</u>
94057019	FEDERAL 675 PURCHASE 20S 21E 10	06	13	6	11/85	<u>1300</u>

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**see attached list**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL    OIL WELL     GAS WELL     OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
**see attached list**

2. NAME OF OPERATOR:  
**J.C. THOMPSON OPERATOR, LLC**

9. API NUMBER:

3. ADDRESS OF OPERATOR:  
7979 E Tufts Ave Pkwy #815 CITY Denver    STATE CO    ZIP 80237

PHONE NUMBER:  
**(303) 220-7772**

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL  
FOOTAGES AT SURFACE:

COUNTY: **Grand**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March 17, 2005, J.C. Thompson Operator, LLC became the operator of all wells on the attached list, which were previously operated by J.C. Thompson.

previous operator: J.C. Thompson  
7979 E Tufts Ave Pkwy #815 *N1240*  
Denver CO 80237-~~2873~~

by: *J.C. Thompson*

new operator: J.C. Thompson Operator, LLC  
7979 E Tufts Ave Pkwy #815 *N2805*  
Denver CO 80237-~~2843~~

*State + Fee BOND # LPM 8756586*  
*BLM Bond # LPM 4021517*

NAME (PLEASE PRINT) J.C. Thompson    TITLE Member and Manager  
SIGNATURE *J.C. Thompson*    DATE 3/17/2005

(This space for State use only)

**APPROVED** 8/24/05  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

**RECEIVED**  
**MAY 25 2005**

DIV. OF OIL, GAS & MINING

(5/2000)

SCHEDULE OF PROPERTIES

J C Thompson Operator, LLC  
(effective March 17, 2005)

<u>API No.</u>	<u>Lease No.</u>	<u>Well Name</u>	<u>Location (Grand County, Utah)</u>	
4301930169	ML-27428	State 428 #1	SWSE	5-T16S-R22E
4301930193	ML-21913	State 913 #1A	C SE	9-T16S-R22E
4301930706	ML-27406	Peterson Springs #1	NWSE	14-T17S-R21E
4301916206	UTU-05109	Horse Point Unit 1-X	NWNE	14-T16S-R23E
4301920154	UTU-020509	Horsepoint M-4	SENE	6-T17S-R24E
4301930013	ML-21613	Horsepoint M-6	NESE	32-T16S-R24E
4301930049	UTU-029600	Horsepoint M-7	SWNW	6-T17S-R24E
4301915671	UTU-02981	Moonridge 31-15	NWNE	15-T16S-R21E
4301915672	UTU-03008A	Segundo #2	SWSE	33-T16S-R21E
4301915673	UTU-04600	Segundo #23-4	NESW	4-T17S-R21E
4301930895	SL-071892	Westwater C-1	NENW	12-T17S-R23E
4301930891	SL-071892	Westwater D-1	SESE	11-T17S-R23E
4301930853	SL-071893	Westwater Unit #3	S2N2NW	13-T17S-R23E
4301930852	SL-071893	Westwater Unit #5	NESW	18-T17S-R24E
4301930892	SL-071892	Westwater B-1	NWSW	17-T17S-R24E
4301915657	SL-071892	Westwater E2	SWSE	7-T17S-R24E
4301915649	SL-071892	Castlegate 2	SWNW	18-T17S-R24E
4301915650	SL-071893	Westwater Castlegate 4	NENE	13-T17S-R23E
4301915652	SL-071892	Westwater Castlegate 6	SENW	18-T17S-R24E
4301915653	UTU-04011	Westwater Castlegate 7	NESE	7-T17S-R24E
4301915656	SL-071892	Castlegate D-2	NWNE	18-T17S-R24E
4301915654	SL-071891	Westwater C9-10	SWSE	10-T17S-R23E
4301930077	SL-071892	Westwater E5	NWNE	18-T17S-R24E
4301915658	SL-071892	Westwater E3	NENW	17-T17S-R24E
4301915662	UTU-04011	Westwater M3	NWNW	7-T17S-R24E

**SCHEDULE OF PROPERTIES**  
**J C Thompson Operator, LLC**  
**Page 2**

<u>API No.</u>	<u>Lease No.</u>	<u>Well Name</u>	<u>Location (Grand County, Utah)</u>	
4301915660	SL-071567	Westwater M1	SESW	1-T17S-R23E
4301915661	SL-071892	Westwater M2	NWSE	12-T17S-R23E
4301915647	UTU-026A	Bryson Canyon Govt #1	SWSW	8-T17S-R24E
4301930641	UTU-15889	Middle Canyon #4-30	SWSW	30-T16S-R24E
4301930925	UTU-30123	Middle Canyon #11-30	SENW	30-T16S -R24E



7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 7/26/2005

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

1. Changes entered in the Oil and Gas Database on: 8/24/2005
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 8/24/2005
3. Bond information entered in RBDMS on: 8/24/2005
4. Fee/State wells attached to bond in RBDMS on: 8/24/2005
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: U0068

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number LPM8756586\*\*
2. The FORMER operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:**

**\*\* Bond rider deleted J. C. Thompson and added J. C. Thompson Operator, LLC**

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
 CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**6/1/2012**

<b>FROM:</b> (Old Operator): N2805- J. C. Thompson 8400 E Prentice Ave, Suite 735 Greenwiid Village, CO 80111  Phone: 1 (303) 220-7772	<b>TO:</b> ( New Operator): N8060- National Fuel Corporation 8400 E Prentice Ave, Suite 735 Greenwood Villiage, CO 80111  Phone: 1 (303) 220-7772
---	--

WELL NAME	CA No.	SEC	TWN	RNG	Unit:	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List										

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/14/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/14/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/14/2012
- a. Is the new operator registered in the State of Utah: Business Number: 1260477-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: Yes
- 5b. Inspections of LA PA state/fee well sites complete on: N/A
- 5c. Reports current for Production/Disposition & Sundries on: 8/14/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: Not Yet
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 8/31/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/31/2012
- Bond information entered in RBDMS on: 8/31/2012
- Fee/State wells attached to bond in RBDMS on: 8/31/2012
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: LPM4021517
- Indian well(s) covered by Bond Number: N/A
- 3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number LPM 8756586
- 3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

**COMMENTS:**

J C Thompson Operator, LLC (N2805) to National Fuel Corporation (N8060)  
 Effective 8/1/2012

Well Name	Sec	TWP	RNG	API Number	Entity	Least	Well Type	Well Status
FED 18 CASTLEGATE-2	18	170S	240E	4301915649	355	Federal	GW	P
WESTWATER FED C9-10	10	170S	230E	4301915654	304	Federal	GW	P
WESTWATER U M-1	01	170S	230E	4301915660	308	Federal	GW	P
SEGUNDO 2	33	160S	210E	4301915672	320	Federal	GW	P
SEGUNDO 23-4	04	170S	210E	4301915673	325	Federal	GW	S
HORSE POINT M-7	06	170S	240E	4301930049	305	Federal	GW	S
STATE 913-1A	09	160S	220E	4301930193	6035	State	GW	S
WESTWATER FED B-1	17	170S	240E	4301930892	306	Federal	GW	P
FEDERAL C-1	12	170S	230E	4301930895	270	Federal	GW	S

PHONE 303-220-7772  
FAX 303-220-7772

**J. C. THOMPSON OPERATOR, LLC**  
8400 E. Prentice Ave. – Suite 735  
Greenwood Village, Colorado 80111

August 9, 2012

RECEIVED

AUG 14 2012

DIV. OF OIL, GAS & MINING

State of Utah  
Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Re: Operator Change  
J.C. Thompson Operator, LLC to National Fuel Corporation

J.C. Thompson Operator, LLC, the operator of certain wells located in Grand County, Utah, requests that the designated operator of all wells be changed to National Fuel Corporation effective June 1, 2012. Accordingly, enclosed for approval is the Sundry Notice (submitted in triplicate) regarding the leases.

National Fuel Corporation is principal to its Statewide Utah Bond #LPM4021517 and the bond has been previously provided to the Salt Lake City office. The Resignation of Unit Operator and Designation of Successor Operator will also be provided accordingly.

Please advise if any additional information or documentation is required.

Sincerely,



Lynne Jansons  
Land and Contract Management  
National Fuel Corporation  
303.996.6776 (office)  
303.220.7773 (fax)  
ljansons@national-fuel.com

enclosures

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: see attached list
2. NAME OF OPERATOR: NATIONAL FUEL CORPORATION <i>128060</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 8400 E Prentice Ave., Suite 7 Greenwood Village CO 80111		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: COUNTY: <b>Grand</b>		8. WELL NAME and NUMBER: see attached list
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: <b>UTAH</b>		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT:

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 1, 2012, National Fuel Corporation succeeded J.C. Thompson Operator, LLC as operator of all wells on the attached list and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. National Fuel Corporation is principal to the Statewide Utah Bond No. LPM4021517.

*State: LPM 8756586*

NAME (PLEASE PRINT) <u>Diane Thompson</u>	TITLE <u>President and Chief Operating Officer</u>
SIGNATURE <i>Diane Thompson</i>	DATE <u>July 30, 2012 July 30, 2012</u>

(This space for State use only)

**APPROVED**  
AUG 31 2012

DIV. OIL GAS & MINING  
*Rachael Medina*  
Engineer Tech

**RECEIVED**  
AUG 14 2012  
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)