

UTAH OIL AND GAS CONSERVATION COMMISSION



REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE X WATER SANDS \_\_\_\_\_ LOCATION INSPECTED GAS WELL SUB. REPORT/abd. \_\_\_\_\_

\* Location Abandoned- Well never drilled- 7-15-82

DATE FILED 6-26-81

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-13633 INDIAN \_\_\_\_\_

DRILLING APPROVED: 6-29-81

SPUDED IN: \_\_\_\_\_  
COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_  
GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_  
PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_  
WELL ELEVATION: 4944' GL

DATE ABANDONED: LA- July 15, 1982  
FIELD: WILDCAT 3/86 Natural Butte

UNIT: \_\_\_\_\_  
COUNTY: UINTAH

WELL NO. DUCK CREEK #55-9 API NO. 43-047-30983

LOCATION 1320 FT. FROM ~~N~~ (S) LINE. 1332' FT. FROM (E) ~~XX~~ LINE. SW SE 1/4 - 1/4 SEC. 9

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<u>9S</u>	<u>20E</u>	<u>9</u>	<u>BELCO DEVELOPMENT CORP,</u>				

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS FORM  
(Other forms apply  
except where noted)

Form No. 100-107  
Rev. 1-1-79

**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  
 BELCO DEVELOPMENT CORPORATION

3. ADDRESS OF OPERATOR  
 P. O. BOX X, VERNAL, UTAH 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface                      1332' FEL & 1320' FSL SW/SE 1/4  
 At proposed prod. zone                      Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 2 1/2 miles South of Ouray, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)                      1320'

16. NO. OF ACRES IN LEASE

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                      7556'

20. ROTARY OR CABLE TOOLS                      Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)                      4744' Natural GL

22. APPROX. DATE WORK WILL START\*                      7-26-81

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/4"	13 3/8"	54.5#	200'	Cement to Surf
7 7/8"	4 1/2"	11.6#	7556'	Sufficient to cover 200' above Green River Formation.

SEE ATTACHMENTS FOR:

1. Location Plat
2. 10 Point Program
3. 13 Point Surface Use Plan
4. Location Layout
5. TOPO Maps "A" & "B"
6. Diagram "A"- BOP Design
7. Diagram "B"- Production Facilities Schematic.

**APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**  
 DATE: 6-26-81  
 BY: M. J. Menden

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 J. C. Ball TITLE District Engineer DATE 4-10-81

(This space for Federal or State office use)

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

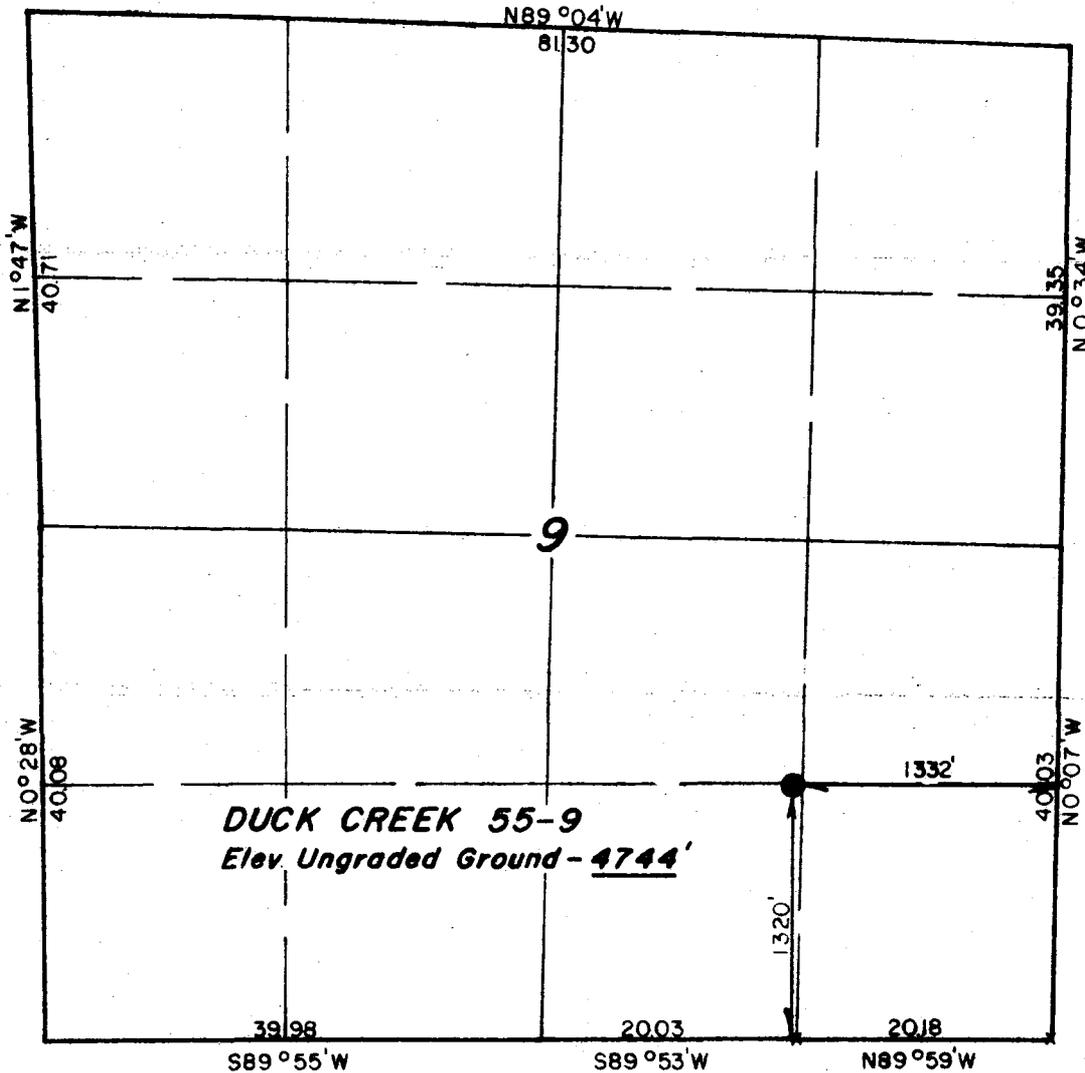
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

T9S , R20E , S.L.B&M.

PROJECT  
**BELCO DEVELOPMENT CORP.**

Well location, **DUCK CREEK 55-9** located  
 as shown in the SW 1/4 SE 1/4 Section 9, T9S,  
 R20E, S.L.B.&M. Uintah County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
 FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
 SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
 BEST OF MY KNOWLEDGE AND BELIEF.

*Lawrence C. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO 3137  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 P.O. BOX Q - 110 EAST - FIRST SOUTH  
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 3/23/81
PARTY BK RK FO	REFERENCES GLO Plat
WEATHER Cloudy Cool	FILE BELCO PETROLEUM CORP

X = Section Corners Located

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

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 2 1/2 miles South of Ouray, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 1320'

16. NO. OF ACRES IN LEASE  
 1325'

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 320

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 7556'

19. PROPOSED DEPTH  
 7556'

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 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4744' Natural GL

22. APPROX. DATE WORK WILL START\*  
 7-26-81

5. LEASE DESIGNATION AND SERIAL NO.  
 U-13633

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 SURFACE\*UTE TRIBE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 DUCK CREEK

9. WELL NO.  
 55-9

10. FIELD AND POOL, OR WILDCAT  
 DUCK CREEK-WASATCH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 SECTION 9, T9S, R20E

12. COUNTY OR PARISH  
 UINTAH CO.

13. STATE  
 UTAH

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24. SIGNED J. C. Ball TITLE District Engineer DATE 4-10-81  
 J. C. Ball

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 FOR E. W. GUYNN  
 APPROVED BY (ORIG. SGD.) R. A. HENRICKS TITLE DISTRICT ENGINEER DATE JUL 13 1981  
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

*State of G.*

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY  
 FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

Identification CER/EA No. 411-81

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 Belco Development Corp.  
Project Type Gas Well Development  
Project Location 1332' FEL 1325' FSL Section 9, T. 9S, R. 20E  
Well No. 55-9 Lease No. U-13633  
Date Project Submitted April 13, 1981

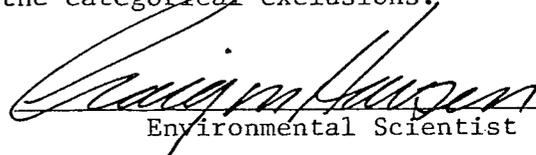
FIELD INSPECTION Date May 28, 1981

Field Inspection  
Participants Craig Hansen USGS, Vernal  
Lynn Hall BIA, Ft. Duchesne  
Rick Schatz Belco

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.

June 8, 1981  
Date Prepared

  
Environmental Scientist

I concur  
JUN 15 1981  
Date

 FOR  
District Supervisor E. W. GYNN  
DISTRICT ENGINEER

Typing In 6-8-81 Typing Out 6-8-81



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 BELCO #55-9

1. Operator will adhere to standard BIA surface stipulations.
2. Operator will paint production facilities a tan color to blend in with the natural surroundings.
3. Location will be graded above existing surface to divert drainage away from location.
4. Topsoil will be piled on the south edge of the location.
5. Location was moved to 1332' FEL 1325' FSL to identify spacing.



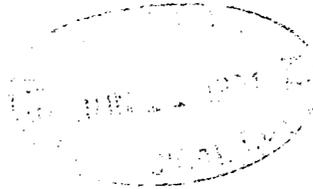
United States Department of the Interior  
BUREAU OF INDIAN AFFAIRS  
UINTAH AND OURAY AGENCY  
Fort Duchesne, Utah 84026  
(801) 722-2406 Ext. #202

IN REPLY REFER TO:

Land Operations, SMC

June 4, 1981

Mr. Craig Hansen  
U.S. Geological Survey  
Conservation Division  
P.O. Box 1037  
Vernal, Utah 84078



Dear Mr. Hansen:

Enclosed are Negative Declarations and Environmental Analysis for 12 Belco Development Corporation Well locations identified by Well No's 55-9, 54-9, 51-8GR, 52-16, 43-17GR, 44-17GR, 48-17GR, 46-17GR, 18-20GR, 47-17GR, 58-8GR, and 50-17GR.

The Operator's Surface Use and Operating Plan is adequate with the modification made at the on-site inspection and recorded in the U.S.G.S. Environmental Assessments.

The general stipulations (BIA) on file with your office and stipulations listed under item 4, Mitigating Measures, of each Environmental Analysis, are conditions of approval.

Sincerely yours,

Superintendent

Enclosure

Utah and Curry Agency  
Environmental Analysis and Negative Declaration

1. Description of Proposal:

Belco Development Corp. proposes to drill an gas well 55-9 to a proposed depth of 7556 feet; to construct approximately 0.1 miles of new access road; and upgrade approximately none miles of existing access road. The well site is located approximately 2.5 miles south of Ouray, Utah in the SWSE, Sec. 9, T 9S, R 20E, SLM. 1332' FEL & 1320' FSL

2. Description of the Environment:

The area is used for livestock grazing, wildlife, scenic, hunting & Oil & Gas production. The topography is a level valley with trapped drainage, rolling hills & eroded. The vegetation consists of a sparse cover greasewood, horsebrush, rabbit brush, hallogeton, rice grass galleta.

The area is used as wildlife habitat for X deer, X antelope, elk, bear, X small animals, pheasant, X dove, sage grouse, ruffle grouse, blue grouse, bald eagle, golden eagle, other rabbits, coyotes, raptors, desert birds, reptiles. The climate is characterized by having cold snowy winters and warm dry summers. Temperatures range from -40°F during the winter to 105°F in the summer. The approximate annual precipitation is 6-8 inches. The elevation is 4744 feet.

3. Environmental Impacts:

During construction of the well dust and exhaust emissions will affect air quality. Soil and vegetation will be removed from 3.5 acres of land occupied by the well site and access road. The disturbance of the soil and removal of vegetation will:

- A. Destroy wildlife habitat for: X deer, X antelope, elk, bear, X small mammals, pheasant, X dove, sage grouse, ruffle grouse, blue grouse, X rabbit, X golden eagle, bald eagle, other coyotes, small rodents, small reptiles, desert birds.
- B. Remove from production: X rangeland for livestock grazing, irrigated cropland, irrigated pastureland, prime timberland, pinion-juniper land.
- C. Result in the invasion of annual weeds and will cause accelerated soil erosion: During the construction and production of the well human activity in the area will increase significantly. This is expected to significantly increase: X poaching of wildlife, X disturbance of wildlife, X vandalism of property, theft of firewood, X litter accumulations, X livestock disturbance, X livestock thefts, X livestock loss to accidents, X increase the hazard to public health and safety. There is a high, moderate, slight possibility that pollution from this activity will enter a stream or lake.

Production facilities can easily be seen from a community, major highway, public facility.

4. Mitigating measures:

To lessen the impact on the environment the provisions stipulated in the letter to Mr. Ed W. Quinn, District Engineer, U.S. Geological Survey, dated February 11, 1980 will be implemented. Additional stipulations and changes to the 11 point surface use plan are: (1) Obtain right-of-way and required permits from the BIA. (2) Compensate the surface owner for all damages. (3) Comply with all USGS, BIA, and Tribal regulations and ordinance. (4) Assume a continuing responsibility for operation and maintenance of roads, culverts, pipelines, and other facilities. (5) Take measures to prevent or reduce erosion, and revegetate all disturbed surface areas according to BIA specifications. (6) Comply with operating plan as modified at on-site evaluation and recorded in USGS EA# 411-81.

5. Unavoidable adverse effects:

None of the adverse effects listed in item #1 above can be avoided in a practical manner except those which were mitigated in item #4 above.

6. Relationship between short term and longterm productivity:

As long as oil or gas wells are producing and the access roads are retained there will be a total loss of production on the land and the Environmental Impacts will continue to affect the surrounding area. Normally oil and gas wells produce from 15 to 30 years. After the wells stop producing it is standard policy to restore the surface to near its original condition. Occasionally the site occupied by the well or road can be restored to produce as much as it originally produced, but most of the time it can not be restored to its original productive capacity. Therefore, the land surface productive ability will be permanently damaged.

7. Irreversible and Irrecoverable commitment of Natural Resources:

There are two irreversible and irretrievable resources commit in this action.

A. Oil or Gas: Oil and gas is a non-renewable resource. Once it has been removed it can never be replaced.

B. Damage to the land surface: There are three causes of damage to the soil surface due to oil or gas wells and road construction. (1) Gravel is normally hauled onto the site as a pad foundation for equipment and traffic to operate on. Gravel has low fertility and low waterholding capacity. Therefore, after the site is restored the gravel must either be removed, or incorporated into the natural landscape. (2) Chemicals are often either accidentally spilled or intentionally applied to the site for weed and dust control. Generally the chemicals are crude oil or production water, which may contain as much as 20,000 PPM of salts. Once chemicals become incorporated in the soil they are difficult to remove and interfere with the soils ability to produce vegetation. (3) Soil compaction occurs where the site is subject to stormy wet weather and traffic from heavy trucks and equipment. Each of the above items cause soil damage and after the site is restored the productive ability of the soil will be damaged permanently.

8. Alternatives:

A. No. program - This alternative refuses the authorization of the application for permit to drill. This action would not allow the operator to enter upon the land surface to drill for oil or gas. Because the minerals usually cannot be developed without encroachment on the surface, the mineral estate is normally and traditionally designated as dominant, and the surface ownership subservient. The mineral operator's conduct is generally prescribed only by the rule of reasonableness and the limitations that he is not permitted to act in a wanton or negligent manner. Within their confines, the operator has considerable latitude in the necessary use of the surface to produce and develop the mineral estate. Therefore if the application for permit is not signed, the operator would undoubtedly initiate court proceedings against the surface owner, in this case the Ute Tribe and the Bureau of Indian Affairs. Historically the courts have upheld the right of the mineral owner to develop the mineral resource regardless of the surface owners desire, therefore the operators rights will likely be upheld if B.I.A. refuses to sign the application for permit to drill this well.

B. Sign the application for permit to drill. This alternative authorizes the operator to drill for oil or gas as prescribed in the application, providing he complies with stipulations which are considered reasonable as specified in paragraph 4 above under mitigating measures.

9. Consultations:

Craig Hansen - USGS

Rick Schatz - Belco Development Corp.

R. Lynn Hall 64-87  
B.I.A. Representative

10. We (concur with or, recommend) approval of the Application for Permit to Drill the subject well.

Based on available information 5-28-81, we have cleared the proposed location in the following areas of environmental impact:

Yes  No  Listed threatened or endangered species

Yes  No  Critical wildlife habitat

Yes  No  Historical or cultural resources

Yes  No  Air quality aspects (to be used only if project is in or adjacent to a Class I area of attainment)

Yes  No  Other (if necessary)

Remarks: \_\_\_\_\_

The necessary surface protection and rehabilitation requirements are specified above.

R. Lynn Hall 5-6-81  
B.I.A. Representative

11. Declaration:

It has been determined that the drilling of the above well is not a Federal action significantly affecting the quality of the environment as would require the preparation of an environmental statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (c).

L.W. Collier  
Superintendent

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

Cody

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-13633OPERATOR: BelcoWELL NO. 55-9LOCATION: 1/2 C SE 1/2 sec. , T. 9 S., R. 20 E., 51MUintah County, Utah

## 1. Stratigraphy:

Uintah	surface
Green River	1945'
Wasatch	5345'
<u>TD</u>	<u>7555'</u>

## 2. Fresh Water:

Fresh water may be present in the Uintah and upper Green River sandstones.

## 3. Leasable Minerals:

Oil Shale: Green River. The Mahogany zone should occur at ~ 2750' depth.

Saline Minerals: Green River. These may occur in a 800' rock interval immediately overlying the Mahogany.

Oil/Gas: lower Green River, Wasatch

4. Additional Logs Needed: Adequate5. Potential Geologic Hazards: None expected

## 6. References and Remarks:

Signature: Gregory W. WoodDate: 4-21-81

10 POINT PROGRAM1. GEOLOGIC SURFACE FORMATION:

Uinta formation of the Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	Surface
Green River	1943'
Wasatch	5343'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Uinta	Sand and shale, possible water
Green River	Sand and shale, possible gas and oil shows
Wasatch	Sand and shale, primary objective, anticipate gas.

4. PROPOSED CASING PROGRAM:

- a) Surf Csg: 13 3/8" 54.5#, K-55 to 200', cement to surface
- b) Prod Csg: 4 1/2" 11.6#, K-55 to TD, will use enough cement to cover 200' over top of Green River formation

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operators minimum specifications for pressure control equipment are as follows: 10", 3000 PSI hydraulic doublegate BOP or the equivalent. Pressure tests of BOP to 1000# will be made prior to drilling surface plug and on each trip for bit.

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

It is proposed that the hole will be drilled to approx. 4000' with 3% KCL water in order to clean the hole. From 4000' to TD it is planned to drill the well with mud. The mud system will be a water based, gel-chemical mud, weighted up to 10.5 ppg as required for gas control.

7. AUXILIARY EQUIPMENT TO BE USED:

Auxiliary equipment to be used will be a 2", 2000 PSI choke manifold and kill line, stabbing valve, kelly cock and visual mud monitoring.

8. TESTING, LOGGING AND CORING PROGRAMS:

No coring or drill stem testing has been scheduled for this well. The logging will consist of DLL, CNL, FDC and Gamma Ray w/caliper.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

It is not anticipated that abnormal pressures or temperatures will be encountered, nor that any other abnormal hazards such as H<sub>2</sub>S gas will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Anticipated starting date is 7-26-81. Drilling operations should be complete 2 1/2 weeks after they commence.

13 Point Surface Use Plan

DUCK CREEK FIELD

DC 54-9

DC 55-9

DC 52-16

Wasatch Gas Wells

1. EXISTING ROADS

- A. For the location of the proposed well sites and existing roads, see the Topo maps marked "B", attached to the APD's. All the proposed wells are located in Sections 16 and 9, T9S, R20E, Uintah County, Utah. All wells are within 2 to 3 1/2 miles of Ouray, Utah.
- B. The county road running south from Ouray, Utah takes you into the immediate vicinity of these wells. See attached Topo maps for proposed access routes.
- C. The proposed access roads are outlined in detail on the Topo Maps marked "B" attached to each individual APD.
- D. See Topo Maps "B".
- E. Not applicable.
- F. Access to the proposed well sites will be over the existing county road except for the proposed access roads. The proposed access roads will be crowned and ditched so as to accomodate rig traffic.

2. PLANNED ACCESS ROADS

See the Maps attached to each APD.

The planned access roads will comply with the general specifications as outlined.

- A. Proposed access roads will be 32 foot crown roads, usable 16 feet on either side of the centerline, with drain ditches along either side of the proposed roads, where it is determined necessary in order to handle any run off from the normal weather conditions prevalent to this area.
- B. Maximum grades of the proposed access roads will be 3% and will not exceed that amount.
- C. No turnouts are planned for the length of the proposed access roads, so additional cut disturbances will be kept to a minimum. Line of site vision is such that turnouts are unnecessary.
- D. Drainage design of the proposed roads will avoid unnecessary disturbance of the natural run off patterns. Drainage will be implemented so as not to cause siltation or accumulate any debris.
- E. Surfacing material shall be the native borrow material from the cut areas and will be used to stabilize the road surfaces and the locations. No other material for construction is anticipated.
- F. No fences will be crossed in order to access the proposed locations; No cattle guards will be needed.

- G. The roads have been centerline staked for the full distance of the proposed routes.

### 3. LOCATION OF EXISTING WELLS

- A. Water wells-None
- B. Abandoned wells-None
- C. Temporarily abandoned wells-None
- D. Disposal wells-None
- E. Drilling wells-DC 4-17, Gas well.
- F. Producing wells- Phillips RJ 1 & 2, DC 41-8, DC 20-9, DC 8-16GR, DC 10-16GR, DC 18-16, DC 7-16GR, DC 17-16GR, DC 6-16GR, DC 16-16GR, DC 3-16GR, ND 4-21GR, DC 10-21GR, DC 11-21GR, NPJ 34-Y, NBU 19-21, ND 8-15, ND 9-15, ND 6-15GR, ND 2-15GR, DC 5-16, DC 15-16, DC 14-16,
- G. Shut in wells-none
- H. Injection wells-None
- I. Monitoring wells-None

### 4. LOCATION OF EXISTING AND PROPOSED FACILITIES

- A. Existing production facilities located within one mile of the proposed well are:
1. Tank batteries-Section 16, DC 7-16GR, DC 3-16GR, DC 14-16GR, DC 5-16GR, DC 11-16GR, DC 6-16GR, DC 16-16GR. Section 21, ND 4-21, CIGE 28-21-9-20.
  2. Production Facilities: Section 8, DC 41-8GR, Section 17, DC 24-17GR, Section 20, Sun 2 S.O., CIGE 32, NBU 21-20B, Section 21, ND 11-21GR, ND 10-21GR, ND 4-21GR, NBU 19-21B, CIGE 28 (NBU 34-Y) Section 16, DC 8-16GR, DC 7-16GR, DC 17-16GR DC 3-16GR, DC 16-16GR, DC 14-16GR, DC 15-16GR, DC 5-16GR, DC 11-16GR, DC 6-16GR, DC 18-16, DC 10-16GR.
  3. Oil Gathering Lines: Buried oil line from DC 15-16GR to DC 5-16GR, oil line from 8-16 and 17-16 to 7-16, and from ND 9-15 to 8-15.
  4. Gas gathering lines- Northwest Pipeline's gas gathering lines.
  5. There are no injection lines in this area.
  6. There are no disposal lines in the area.
- B. Attached to each individual APD is a diagram marked "B" showing the production facilities to be utilized in the event of production of gas. All production facilities, tank batteries, separators, de-hys, etc., will be kept on the location pad.

Construction materials will be native borrow or cut exposed on the site and will be consistent with accepted oilfield standards and good engineering practices.

A three strand barbed wire fence will be constructed and maintained around any disposal pits during the drilling and completion phase of the well. When these pits are no longer needed or within 90 days, they will be covered over with native borrow material and rehabilitated to conform with the provisions of the rehabilitation agreement of BIA standards.

Guard rails will be constructed around the wellhead to prevent access to livestock or wildlife.

Rehabilitation of the pits is discussed above. The remaining pad not used for producing operations will be recontoured to conform with the natural grade and covered with topsoil saved on the site. This area will be reseeded as per BIA specifications.

#### 5. LOCATION AND TYPE OF WATER SUPPLY

- A. Water to be used to drill these wells will be hauled by truck from the White River. Access point for the water will be near the White River Bridge, Section 4, T9S, R20E, Uintah County, Utah. Permit for this water will be purchased from the Bureau of Indian Affairs, prior to the drilling operations.
- B. Water will be hauled by truck (Liquid Transport of Duchesne, Utah, PSC #1969) on the above described access routes. See access routes on Topo Maps "B", attached to each APD. No new roads or pipelines will be needed for this purpose.
- C. No water wells will be drilled.

#### 6. SOURCE OF CONSTRUCTION MATERIALS

- A. All construction materials for these locations and their access roads will be native borrow rock and soil, accumulated during the construction. No additional road gravel or pit lining materials are anticipated at this time, but if they are required, appropriate action will be taken to acquire them from private sources after notification is given to the proper regulatory agencies.
- B. Items described in part "A" are from BIA regulated lands.
- C. See part "A".
- D. No other access roads are required, other than described in Item 2.

#### 7. METHODS OF HANDLING WASTE DISPOSAL

- A. Drill cuttings, drilling fluids, salts, chemicals, and produced fluids will be disposed of in the reserve pits on the location pads.

- B. See "A" above for disposal of drilling fluids.
- C. See "A" above for disposal of produced water.
- D. A portable chemical toilet will be provided for human waste during the drilling phase.
- E. Garbage and other waste materials will be contained in a wire mesh cage and then disposed of in an approved waste disposal facility.
- F. Immediately after the drilling rig moves off the location, the remaining trash and garbage will be collected and hauled away by truck. The reserve pit will be fenced on the open side to protect domestic animals and wildlife. This pit will be utilized during the completion and testing phase of the well for storage of produced fluids.

#### 8. ANCILLARY FACILITIES

No airstrips or camps are planned for these wells.

#### 9. WELL SITE LAYOUT

See the Location Layout sheets attached to the individual APD's which show the following items:

- A. Cross section of the pad, showing details of the cuts and fills.
- B. Location of the reserve pits, pipe racks, living facilities and topsoil stockpile.
- C. Rig orientation, parking areas and access road.
- D. Pits will be lined to conserve water and will be fenced on the fourth side at the completion of operations. Proper NTL-2B notices will be filed if the wells produce water.

#### 10. PLANS FOR RESTORATION OF SURFACE

In the event of a dry hole, pits will be allowed to dry and will then be backfilled and waste pits will be backfilled. The location will be restored to as near the original contour as feasible and then reseeded.

- 1. Upon completion of the testing phase of the well, the areas not needed for access to the well and used for producing operations will be filled and recontoured to blend with the surrounding topography and the stockpiled soil redistributed over the unused disturbed area. After final plugging and abandonment of the well, the entire disturbed area will be contoured and topsoil spread over any previously disturbed area.

2. The revegetation of the drill site area and access not needed to carry on production operations will be reseeded with a seed mixture recommended by the BIA. It will be performed at a time of the year when the moisture content of the soil is adequate for germination. The Lessee agrees that all of the clean up and restoration activities shall be done in a diligent and timely manner and in conformity with the above mentioned Items 7 and 10 (1).
3. All pits will be fenced prior to disposal of any waste material and the open side of the reserve pit will be fenced before removing the rig from location. The fences will be maintained in good condition until Item (1) is started.
4. Any oil or condensate on any temporary pit will be removed in a timely manner. Overhead flagging or netting will be installed on any sump pit used to handle well fluids during the producing life of the well.
5. Restoration activities will begin within 90 days after the completion of the well. Once completion activities have begun, they will be completed within 30 days. All wellhead and surface equipment will be painted to blend with the environment, according to BIA specifications.

#### 11. OTHER INFORMATION

Topography of the general area is relatively flat, rolling terrain, consisting of clay and stabilized sand dunes.

Vegetation in the area consists of four-wing saltbrush, tumbleweed, cotton-horn horsebrush, spiny hop sage, curly grass, matchweed, greasewood and a sparse population of Indian ricegrass.

Livestock grazing, mineral exploration and production are the only surface use activities in the area. All lands involved with these locations are controlled by the BIA.

There is no water in the immediate vicinity of these locations, the Green River runs 1 to 3 miles to the north of these locations and also 3 to 4 miles to the west. No occupied dwellings or known archeological or cultural sites are in this area.

12. Belco Development Corporation's representative for these operations will be Mr. J. C. Ball, District Engineer, P. O. Box X, Vernal, Utah, 84078, telephone #1-801-789-0790.

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill sites and access routes; 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 Belco Development Corporation, it's contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

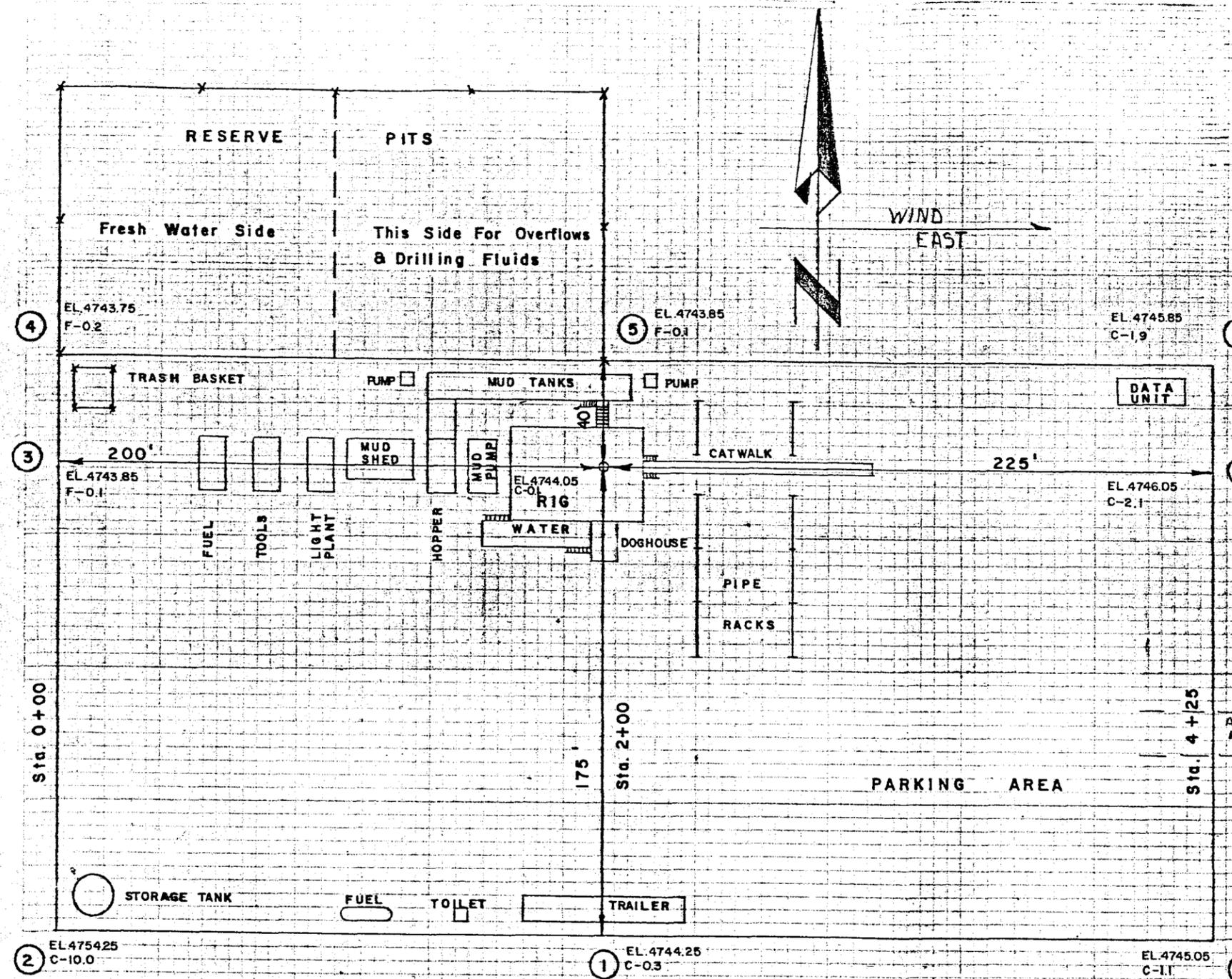
DATE

4/10/87

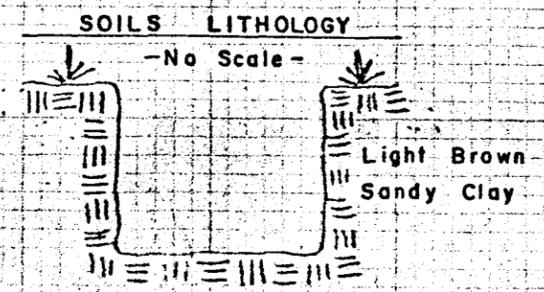
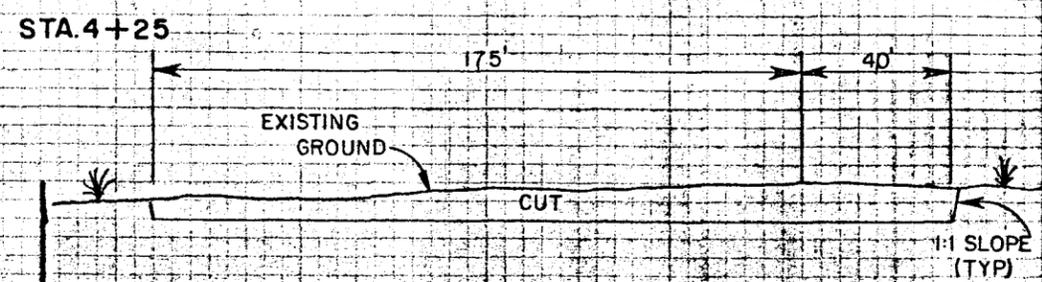
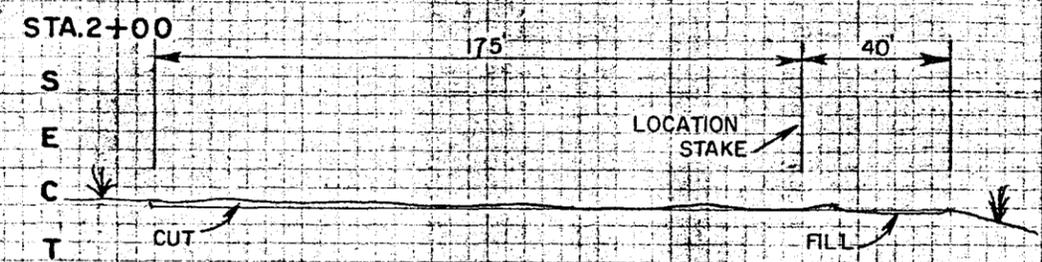
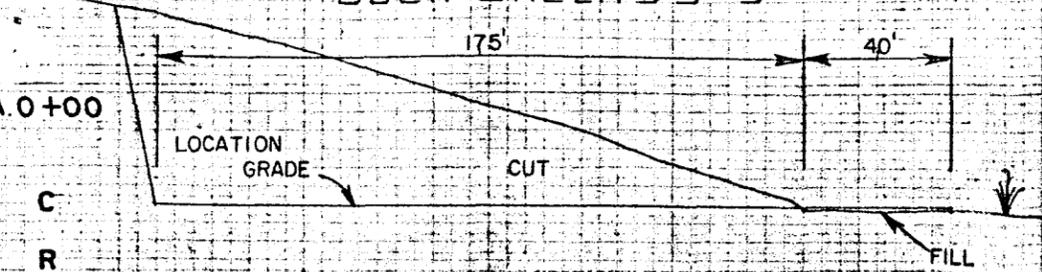
J. C. BALL  
District Engineer

# BELCO DEVELOPMENT CORP.

DUCK CREEK 55-9



C  
R  
O  
S  
S  
S  
E  
C  
T  
I  
O  
N  
S



1" = 10'  
1" = 50'  
APPROXIMATE YARDAGES

Cubic Yards Cut - 5215.45  
Cubic Yards Fill - 40.65

BOLO DEVELOPEMENT CORP.

PROPOSED LOCATION

DUCK CREEK 55-9

TOPO.

MAP "A"



SCALE 1" = 4 MILES



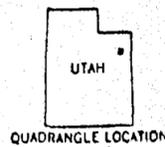
Old Charlav Wash  
**BELCO DEVELOPMENT CORP.**  
**PROPOSED LOCATION**  
**DUCK CREEK 55-9**

TOPO. MAP "B"



SCALE - 1" = 5000'

ROAD CLASSIFICATION  
Light-duty      Unimproved dirt



QUADRANGLE LOCATION

T8S  
T9S

3.0 MILES

EXISTING ROAD

0.9 Miles

**PROPOSED LOCATION**  
**DUCK CREEK 55-9**

R R  
E 20  
E

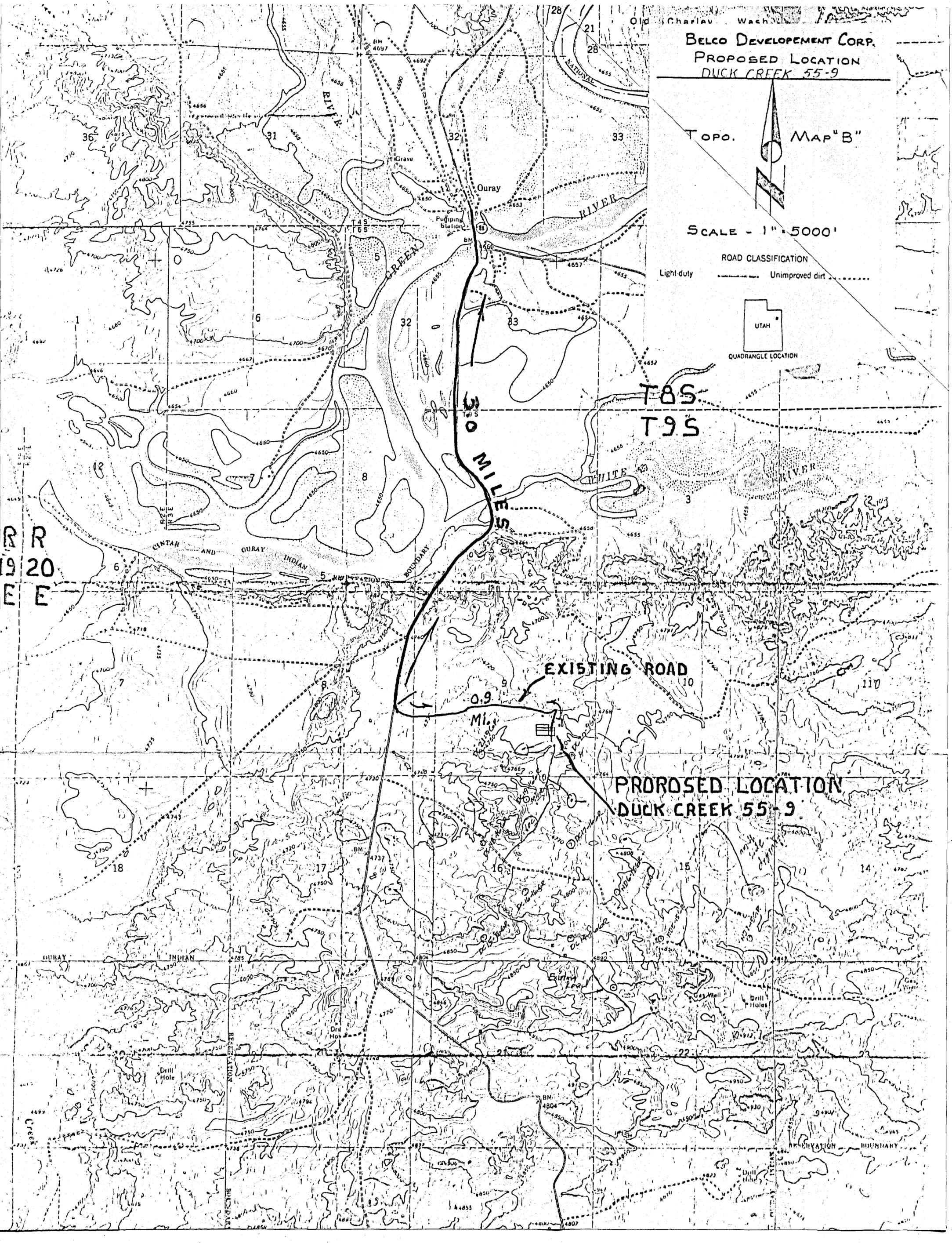
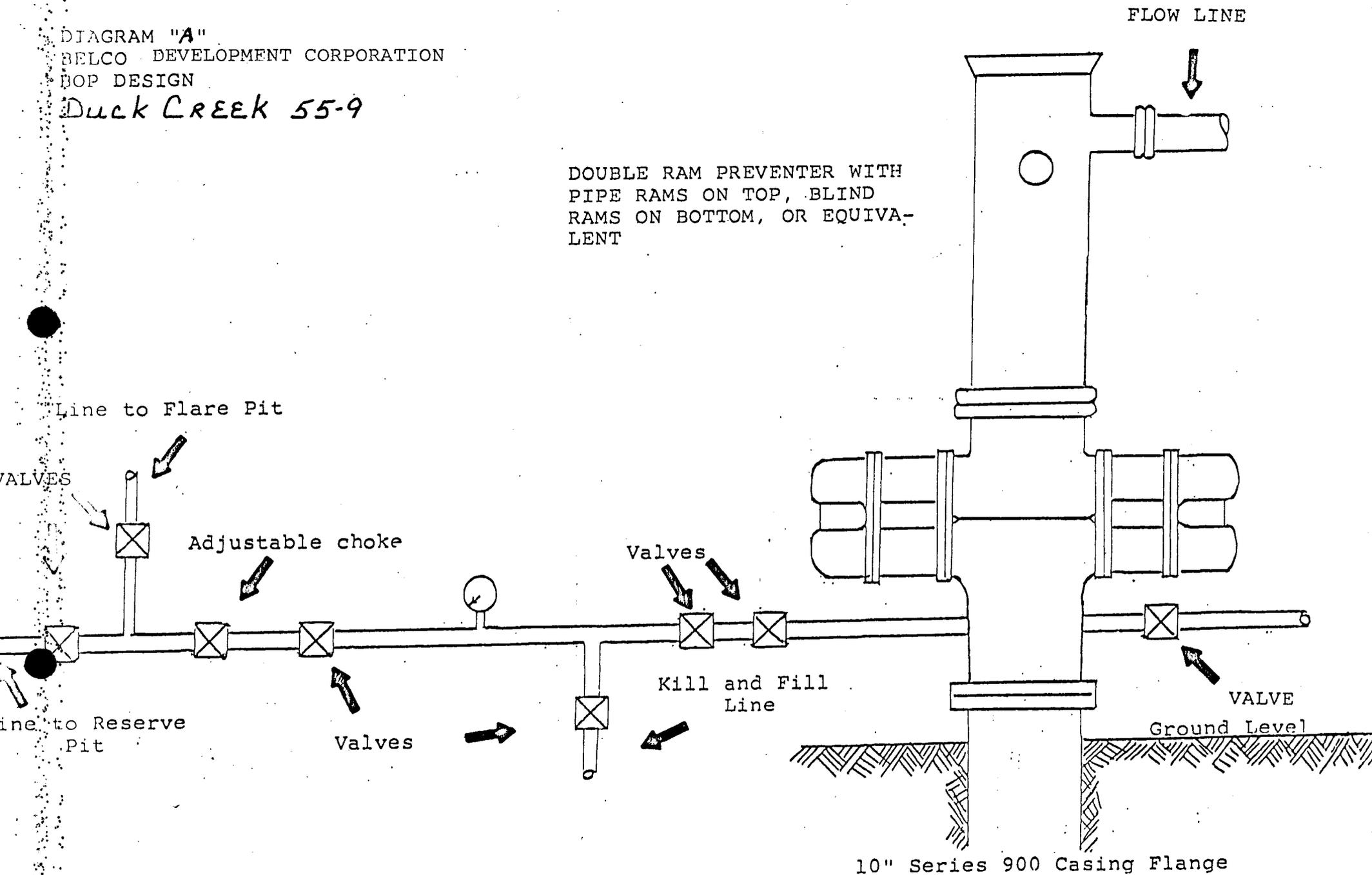


DIAGRAM "A"  
BELCO DEVELOPMENT CORPORATION  
BOP DESIGN  
Duck Creek 55-9

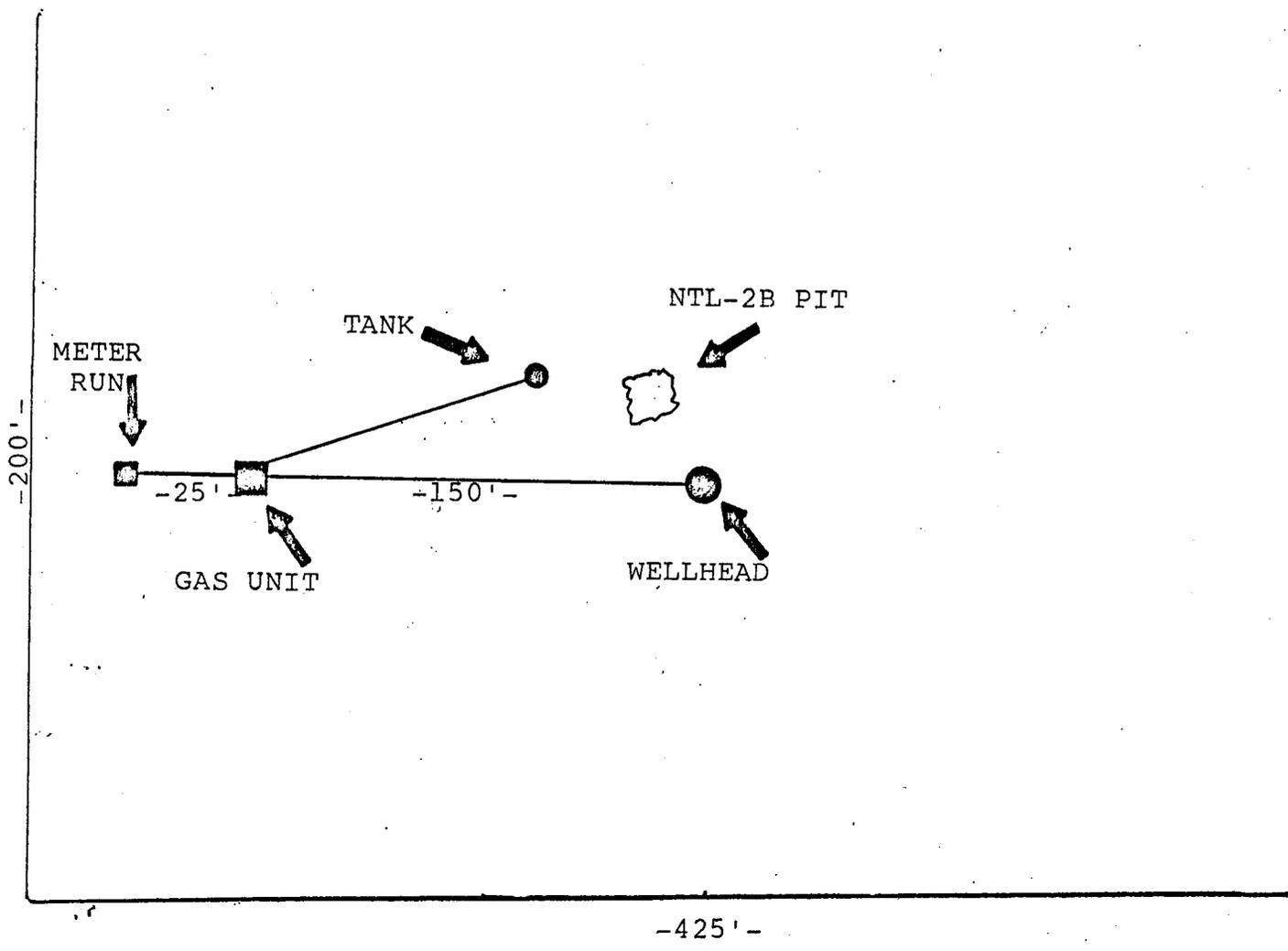
DOUBLE RAM PREVENTER WITH  
PIPE RAMS ON TOP, BLIND  
RAMS ON BOTTOM, OR EQUIVA-  
LENT



10" Series 900 Casing Flange

PROGRAM "B"  
PRODUCTION FACILITIES SCHEMATIC

Duck Creek 55-9



\*\* FILE NOTATIONS \*\*

DATE: June 12, 1981  
OPERATOR: Belco Development Corporation  
WELL NO: Bluck Creek 55-9  
Location: Sec. C 569 T. 9S R. 20E County: Hintah

File Prepared:  Entered on N.I.D:   
Card Indexed:  Completion Sheet:

API Number 43-047-30983

CHECKED BY:

Petroleum Engineer: W. J. Munder 6-26-81

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

Administrative Aide: ok as per Order below, ok on boundaries, ok on any other oil or gas wells. This well will be the one well for the SE 1/4.

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. 187-2, 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.

June 29, 1981

Belco Development Co.  
P. O. Box "X"  
Vernal, Utah 84078

RE: Well No. Duck Creek #55-9  
Sec. 9, T. 9S, R. 20E,  
Uintah 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. 187-2,. As per the Order 187-2, this is the gas well for the SE $\frac{1}{2}$  of Section 9.

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 assigned to this well is 43-047-30983.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



Michael T. Minder  
Petroleum Engineer

MTM/db  
CC: USGS



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 3, 1982

Belco Development Corporation  
P. O. Box X  
Vernal, Utah 84078

Re: See attached

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received 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 you plan to drill this 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

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

Cari Furse  
Clerk Typist

Well No. Duck Creek 56-8GR  
Sec. 8, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #57-8GR  
Sec. 8, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #58-8GR  
Sec. 8, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #59-8GR  
Sec. 8, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #54-9  
Sec. 9, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #55-9  
Sec. 9, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #52-16GR  
Sec. 16, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #13-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #43-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #44-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #45-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #46-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #47-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #48-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #49-17GR  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #16-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #17-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #18-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #19-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #20-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #21-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #22-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #23-20GR  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #15-21GR  
Sec. 21, T. 9S, R. 20E.  
Uintah County, Utah

P.O. Box X  
Vernal, Utah 84078  
Telephone (801) 789-0790

## Belco Development Corporation

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# Belco

March 8, 1982

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

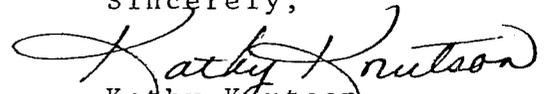
Attn: Cari Furse

RE: See attached list

Dear Ms Furse,

All wells as listed on the attached sheet are being considered by Belco Development Corporation for drilling sometime this year. No activity has taken place on any location as of this date. Belco will notify you when the location is spudded. The Duck Creek 52-16GR well is still waiting on USGS approval.

Sincerely,

  
Kathy Knutson  
Engineering Clerk

/kk

cc: File

**RECEIVED**  
MAR 11 1982

DIVISION OF  
OIL, GAS & MINING

Well No. Duck Creek 56-8GR ✓  
Sec. 8, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #57-8GR  
Sec. 8, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #58-8GR ✓  
Sec. 8, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #59-8GR  
Sec. 8, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #54-9 ✓  
Sec. 9, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #55-9  
Sec. 9, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #52-16GR  
Sec. 16, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #13-17GR  
Sec. 17, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #43-17GR ✓  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #44-17GR  
Sec. 17, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #45-17GR ✓  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #46-17GR  
Sec. 17, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #47-17GR ✓  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Duck Creek #48-17GR  
Sec. 17, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Duck Creek #49-17GR ✓  
Sec. 17, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #16-20GR  
Sec. 20, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Natural Duck #17-20GR  
Sec. 20, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Natural Duck #18-20Gr  
Sec. 20, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Natural Duck #19-20GR ✓  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #20-20GR  
Sec. 20, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Natural Duck #21-20GR ✓  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #22-20GR  
Sec. 20, T. 9S, R. 20E. ✓  
Uintah County, Utah

Well No. Natural Duck #23-20GR ✓  
Sec. 20, T. 9S, R. 20E.  
Uintah County, Utah

Well No. Natural Duck #15-21GR  
Sec. 21, T. 9S, R. 20E.  
Uintah County, Utah ✓

15

Oil and Gas Operations  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

July 15, 1982

Belco Development Corporation  
P.O. Box X  
Vernal, Utah 84078

Re: Rescind Applications for Permit  
to Drill  
Well Nos. 54-9 and 55-9  
Section 9-T9S-R20E  
Uintah County, Utah  
Lease No. U-13633

Gentlemen:

The Applications for Permit to Drill the referenced wells were approved on July 10 and July 13, 1981. Since that date no known activity has transpired at the approved locations. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced applications without prejudice. If you intend to drill at these locations at a future date, new applications for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for these drill sites. Any surface disturbance associated with the approved locations of the wells will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

E. W. Gynn  
District Oil & Gas Supervisor

bcc: SMA  
State O&G ✓  
State BLM  
NMS-Vernal  
Well File  
APD Control

DH/dh