

UTAH OIL AND GAS CONSERVATION COMMISSION



REMARKS: WELL LOG ELECTRIC LOGS FILE WATER SANDS LOCATION INSPECTED OIL WELL SUB. REPORT/abd

This well application is rescinded by the U.S.G.S. on June 10, 82

DATE FILED 5-5-81

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-38400 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: 4752' GL

DATE ABANDONED: LOCATION ABANDONED, WELL NEVER DRILLED JUNE 10, 1982

FIELD: NATURAL BUTTES 3/86

UNIT:

COUNTY: UINTAH

WELL NO. DUCK CREEK #46-17GR API NO. 43-047-30995

LOCATION 778' FT. FROM ~~X~~ (S) LINE. 2261' FT. FROM ~~X~~ (W) LINE. SE SW 1/4 - 1/4 SEC. 17

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
9S	20E	17	BELCO DEVELOPMENT CORP.				

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
 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 778' FSL & 2261' FWL SE/SW
 At proposed prod. zone SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 4 miles SW of Ouray, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 778'

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

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

19. PROPOSED DEPTH 5224'

20. ROTARY OR CABLE TOOLS ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4752' Natural GL

22. APPROX. DATE WORK WILL START* 8-25-81

5. LEASE DESIGNATION AND SERIAL NO.
 U-38400

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 DUCK CREEK

9. WELL NO.
 46-17GR

10. FIELD AND POOL, OR WILDCAT
 Natural Gas - Green River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 17, T9S, R20E

12. COUNTY OR PARISH
 Uintah

13. STATE
 Utah

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"	36#	200'	Cement to surf
8 3/4"	5 1/2"	17#	5224'	Sufficient cement to cover 200' above uppermost hydro-carbon zone.

SEE ATTACHMENTS FOR:

- (1) Location Plat
- (2) 10 Point Program
- (3) BOP design
- (4) 13 Point surface use plan
- (5) Location layout sheet & topo maps A & B
- (6) Production facilities schematic

RECEIVED
 MAY 5 1981
 DIVISION OF
 OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. C. Ball TITLE District Engineer DATE 5-4-81

(This space for Federal or State office use)

PERMIT NO.

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

**APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING**

DATE: 5-26-81
 BY: M. J. Minder

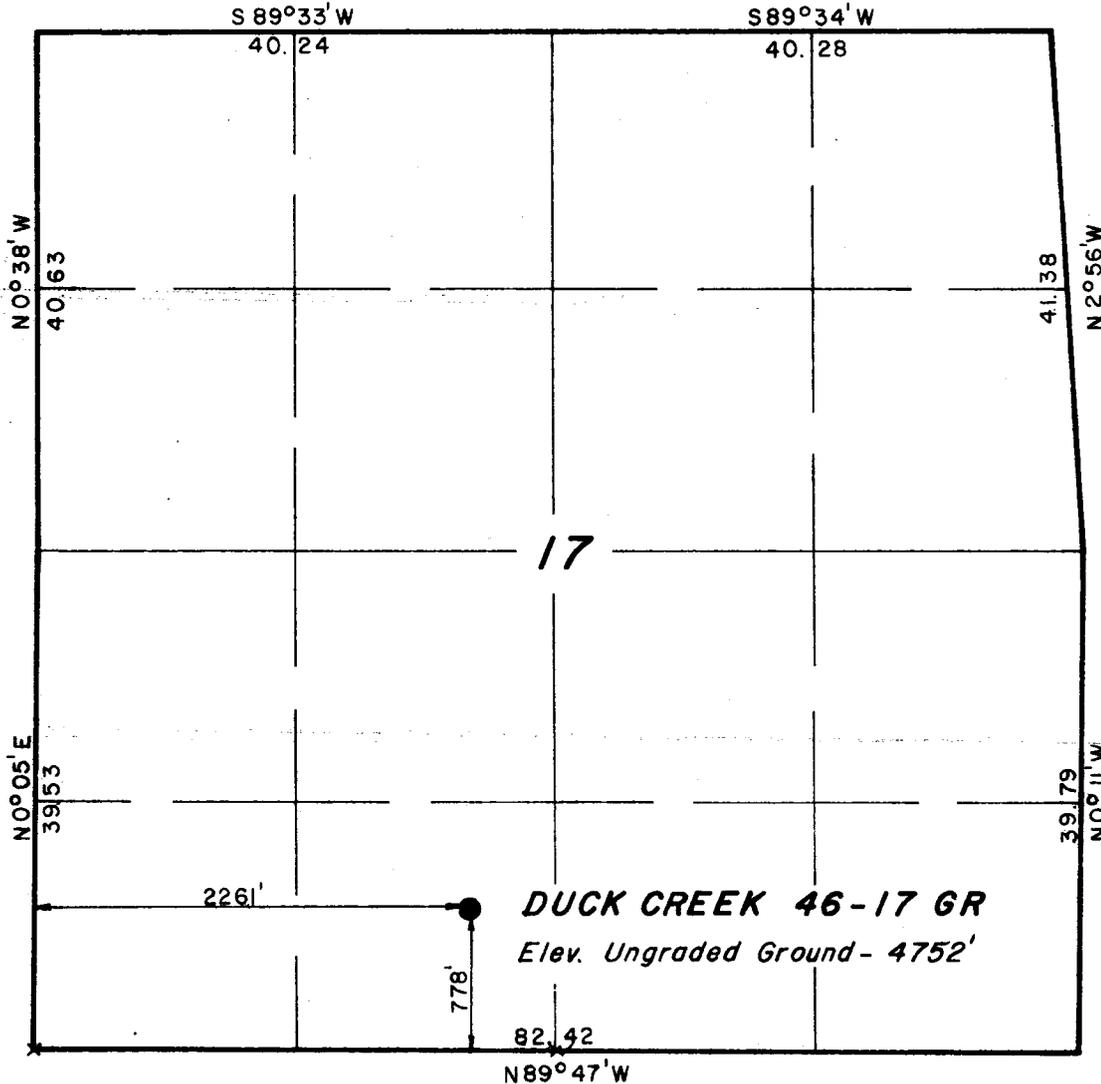
T9S, R20E, S.L.B.&M.

PROJECT

BELCO DEVELOPMENT CORP.

Well location, DUCK CREEK

46-17 GR located as shown in the
SE 1/4 SW 1/4 Section 17, 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.

Richard J. ...

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 4/23/81
PARTY DA DB RDR	REFERENCES GLO PLAT
WEATHER FAIR / WARM	FILE BELCO DEVELOPMENT CORP.

X = Section Corners Located

INDIAN RESERVATION

BELCO DEVELOPEMENT CORP.

PROPOSED LOCATION
DUCK CREEK 46-17 GR

CLELAND BENCH
5206
5210
5086

LITELAND BUTTE
5190

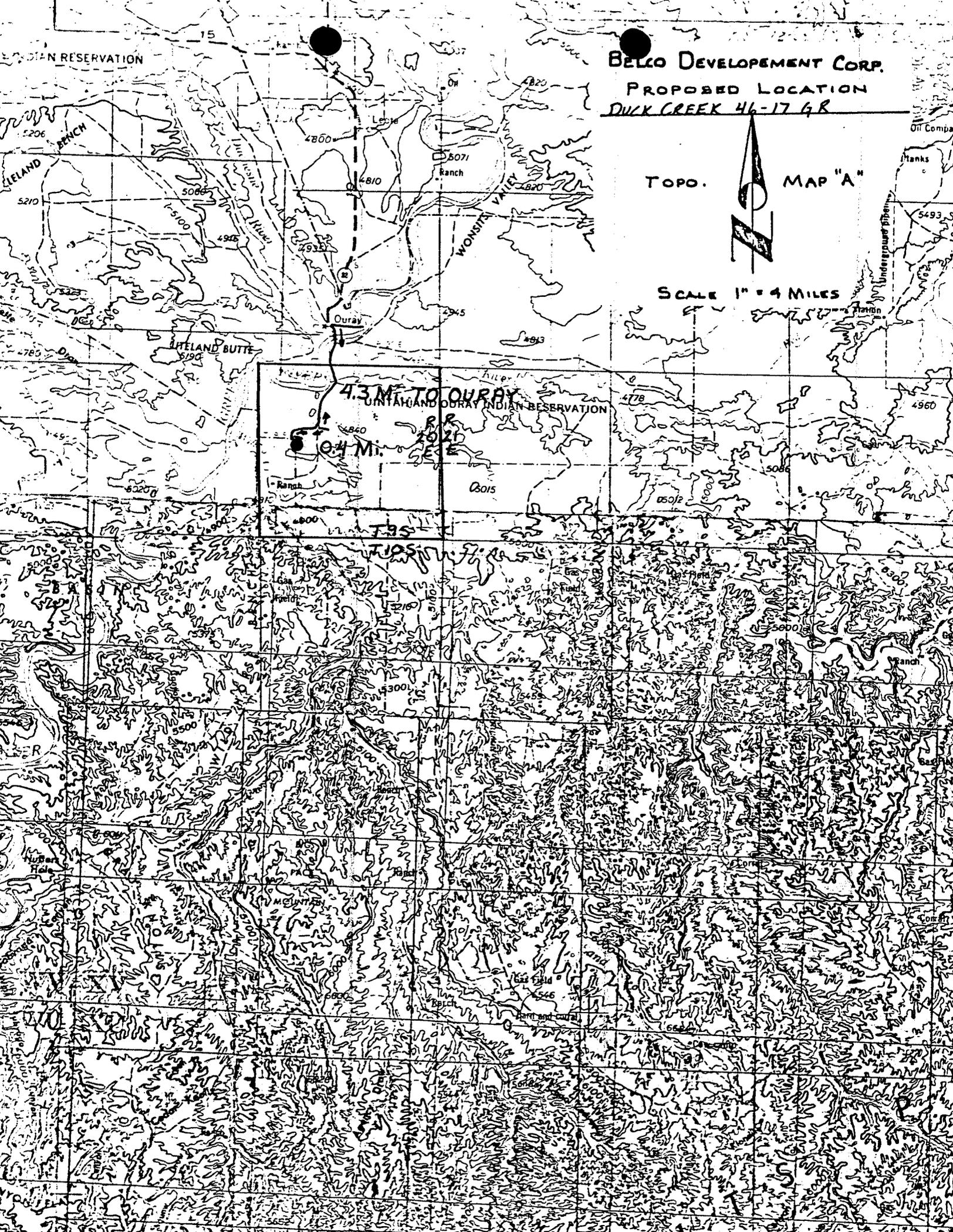
4.3 MI. TO OURAY
UNTAH AND OURAY INDIAN RESERVATION

0.4 MI.

TOPO.

MAP "A"

SCALE 1" = 4 MILES



** FILE NOTATIONS **

DATE: June 12, 1981
OPERATOR: Belco Development Corp.
WELL NO: Duck Creek #46-176R
Location: Sec. 17 T. 9S R. 30E County: Utah

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

API Number 43-047-30995

CHECKED BY:

Petroleum Engineer: M. J. Minder 6-26-81

Director: _____

Administrative Aide: as per Rule C-3, ab on boundaries

APPROVAL LETTER:

Bond Required: Survey Plat Required:

Order No. ~~XXXXXXXXXX~~ 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.

Dilling

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

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CEMENT SHOULD BE SUFFICIENT TO PROTECT OIL AND WATER

RECEIVED
JUN 13 1981
DIVISION OF OIL, GAS & MINING

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24. *J. C. Ball* District Engineer DATE 5/4/81

SIGNED _____ TITLE _____ DATE _____

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *W. W. Martin* FOR E. W. GUYNN DISTRICT ENGINEER DATE JUN 17 1981

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

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

I state of

FROM: : DISTRICT GEOLOGIST, O&G, SALT LAKE CITY, UTAH

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-38400OPERATOR: Belco Pet.WELL NO. 46-17GRLOCATION: NE 1/4 SE 1/4 SW 1/4 sec. 17, T. 9S, R. 20E, 51MUintah County, Utah

1. Stratigraphy:

Uintah	surface
Green River	1760'
<u>TD</u>	<u>5225'</u>

2. Fresh Water:

Fresh water may be present in the Uintah.

3. Leasable Minerals:

Oil Shale: Green River (~1800' to ~3600'). The Mahogany zone should occur at ~2650'.

Saline Minerals: Green River. These may occur as pods in an 800' rock interval immediately above the Mahogany.

Oil/Gas: lower Green River

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None expected

6. References and Remarks:

Signature: Gregory W. WoodDate: 5-12-81

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 Cor.
Project Type Oil Well Development
Project Location 778' FSL 2261' FWL Section 17, T. 9S, R. 20E
Well No. 46-17 Lease No. U-38400
Date Project Submitted May 6, 1981

FIELD INSPECTION

Date May 29, 1981

Field Inspection
Participants

Craig Hansen USGS, Vernal

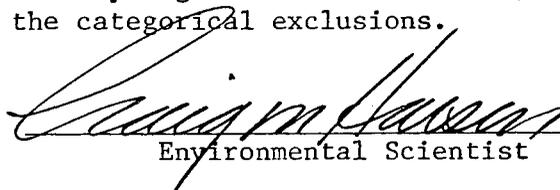
Lynn Hall BIA, Ft. Duchesne

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. GUYNN
DISTRICT ENGINEER

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private corre- spondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
Public health and safety	BIA 6-11-81						2	5-24-81 2,4,6	
Unique charac- teristics	-						2	2,4,6	
Environmentally controversial	1						2	2,4,6	
Uncertain and unknown risks	1					2	2	2,4,6	
Establishes precedents							2	2,4,6	
Cumulatively significant	1						2	2,4,6	
National Register historic places	1								
Endangered/ threatened species	1								
Violate Federal, State, local, tribal law	1								

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 #46-17

1. Operator will adhere to standard BIA surface stipulations.
2. Production facilities will be painted a color to blend in with the natural surroundings.
3. Casing program will insure closure past existing non-productive Gilsonite zone south of the location.
4. Location will have a small borrow ditch around location to divert drainage away from location.
5. Access road will enter from north edge of location. Changes are made on existing map (attached).



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

UNITED STATES GOVERNMENT

Memorandum

TO : Acting Realty Officer

DATE: June 9, 1981

FROM : Soil Conservationist

SUBJECT: Environmental Analysis and Negative Declarations

Enclosed are Environmental Analysis and Negative Declarations
for Belco Development Corp. to drill gas wells near Ouray, Utah.

R. Lynn Hall
R. Lynn Hall

FY: '81-94, '81-100,
'81-95, '81-101,
'81-96, '81-102,
'81-97, '81-103,
'81-98, '81-104,
'81-99, '81-105

Utah and Ouray Agency
Environmental Analysis and Negative Declaration

1. Description of Proposal:

Belco Development Corp proposes to drill an Oil well 46-17GR to a proposed depth of 5224 feet; to construct approximately 200 ft miles of new access road; and upgrade approximately 0.4 miles of existing access road. The well site is located approximately 4 miles SW of Ouray, Utah in the SESW, Sec. 17, T. 9S, R. 20E, SLM, 778' FSL & 226' FWL

2. Description of the Environment:

The area is used for livestock, wildlife, scenic qualities, hunting, Oil and Gas drilling and production. The topography is low terrace with outcrop of sandstone and mudstone. The vegetation consists of greasewood, shadscale, horsebrush, globe mallow, matt saltbush, rabbitbrush, galleta, aster, vetch, ricegrass, cheatgrass, primrose. 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, X golden eagle, other rabbits, coyote, rodents, reptiles, raptors, small desert birds. 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 4752 feet.

3. Environmental Impacts:

During construction of the well dust and exhaust emissions will affect air quality. Soil and vegetation will be removed from 3.3 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 animals, pheasant, X dove, sage grouse, ruffle grouse, blue grouse, X rabbit, golden eagle, bald eagle, other coyotes, small rodents, small reptiles.
- 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, X moderate, slight possibility that pollution from this activity will enter a stream or lake.

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

4. Mitigating measures:

To lessen the impact on the environment the provisions stipulated in the letter to Mr. Ed M. Quayle, District Director, U.S. Geological Survey, dated February 13, 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# 455-81.

5. Unavoidable adverse effects:

None of the adverse effects listed in item (3) above can be avoided in a practical manner except those which were mitigated in item (4) above.

6. Relationship between short term and long term 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 Irretrievable 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 sticky 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, Vernal, Utah

Rick Schatz - Belco, Vernal, Utah

R. Lynn Hall 6-4-81
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 impacts:

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: _____

* necessary surface protection and rehabilitation requirements are specified above.

R. Lynn Hall 6-4-81
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. Collins Jr
Superintendent

10 POINT PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of the Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	Surface
Green River	1759'

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

Uinta	Sand and shale, possible water
Green River	Sand and shale, anticipate oil

4. PROPOSED CASING PROGRAM:

- a) Surf Csg: 9 5/8" 36#, K-55 to 200', cement to surface
- b) Prod Csg: 5 1/2" 17#, 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:

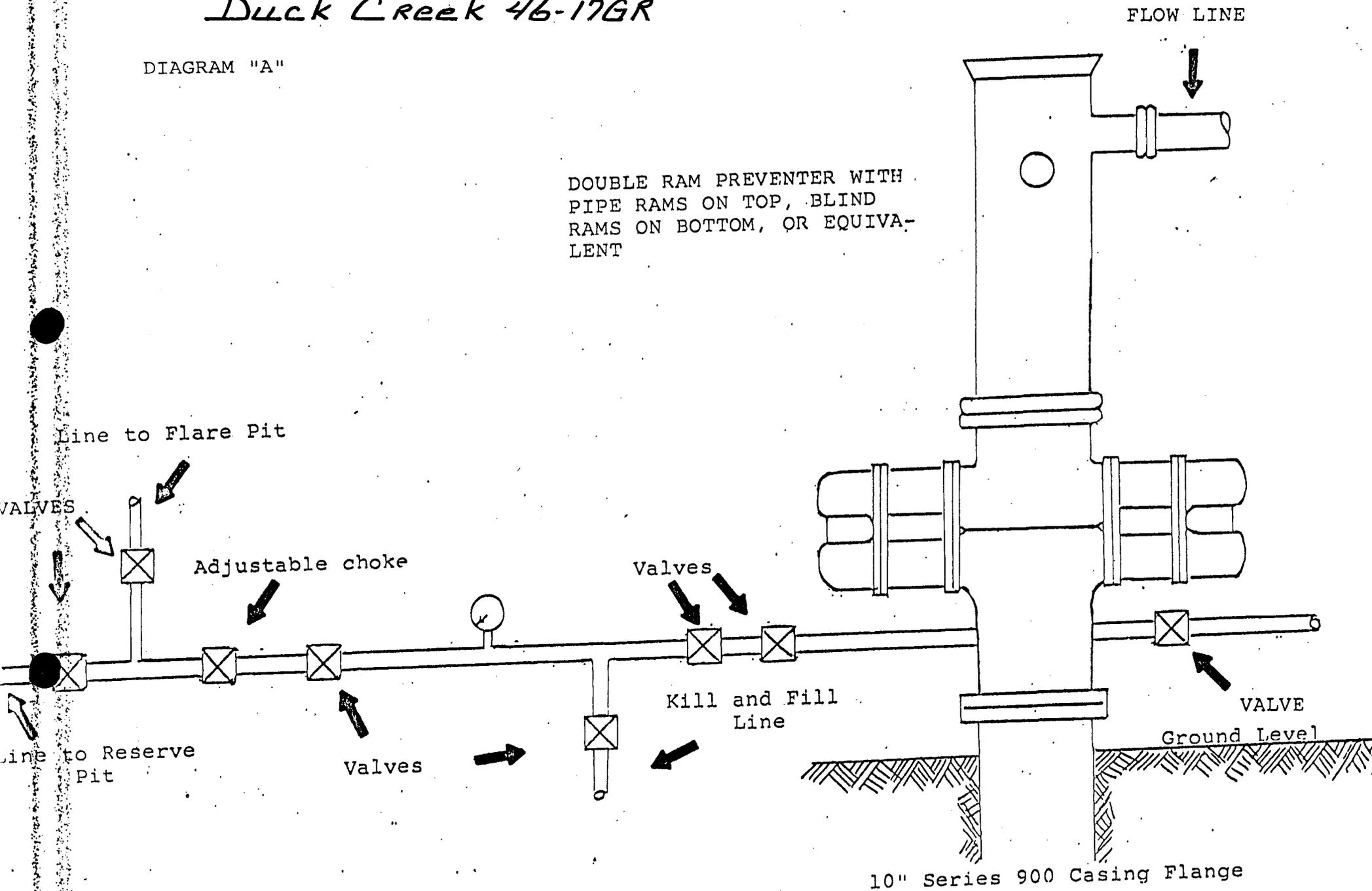
It is not anticipated that abnormal pressures or temperatures will be encountered, nor that any other abnormal hazards such as H₂S gas will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

Anticipated starting date is 9-1-81. Drilling operations should be complete 2 1/2 weeks after they commence.

Duck Creek 46-17GR

DIAGRAM "A"



13 Point Surface Use Plan

DUCK CREEK FIELD

DC 43-17GR
DC 44-17GR
DC 45-17GR
DC 46-17GR
DC 47-17GR
DC 48-17GR
DC 49-17GR
DC 50-~~0~~7GR
DC 51-8 GR
DC 56-8,GR
DC 57-8 GR
DC 58-8GR
DC 59-8GR

NATURAL DUCK FIELD

ND 15-21GR
ND 16-20GR
ND 17-20GR
ND 18-20GR
ND 19-20GR
ND 20-20GR
ND 21-20GR
ND 22-20GR
ND 23-20GR

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 8, 17, 20 and 21, T9S, R20E, Uintah County, Utah. All wells are within 5 to 6 miles of Ouray, Utah.
- B. The county road running south from Ouray, Utah takes you directly into Sections 8, 17, 20 and 21 where these proposed wells are located. All access roads branch out from this county road.
- 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- Section 8, DC 41-8GR, Section 17, DC 24-17GR, Section 20, Cige 32-22-9-20, Sun 2 S.O., NBU 21-20B, Section 21, CIGE 28, (NBU 34-Y) ND 10-21GR, ND 11-21GR, ND 4-21GR, NBU 19-21B. River Junction Unit, Phillips RJ 1 & RJ 2.
- 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, DC 8-16GR to DC 7-16GR, and DC 17-16GR to DC 7-16GR.
 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.

See attached Duck Creek-Natural Duck Fields map for location of the above.

- B. Attached to each individual APD is a diagram marked "B" showing the production facilities to be utilized in the event of production of oil. 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 5/4/81

J. C. Ball
J. C. BALL
District Engineer

BUREAU OF INDIAN AFFAIRS
ADDITIONAL PROVISIONS TO THE SURFACE USE AND OPERATING PLAN

WELL NAME: Duck Creek 46-17GR

LOCATION: SE/SW Sec. 17, T9S, R20E
Uintah Co., Utah

1. FIREARMS:

Employees of Belco Development Corporation, its contractors and subcontractors have been instructed not to carry firearms on the Uintah and Ouray Indian Reservation.

2. OFFROAD TRAFFIC:

Employees of Belco Development Corporation, its contractors, and subcontractors have been instructed to remain only on established roads and well sites.

3. FIREWOOD:

Employees of Belco Development Corporation, its contractors and subcontractors have been notified of the requirements of the Bureau of Indian Affairs to obtain a wood permit from the Forestry Section before gathering any wood on the Uintah and Ouray Indian Reservation.

4. RESTORATION:

All topsoil will be stripped and stockpiled. When all drilling and production activities end or if abandonment is required, the location site and access road will be reshaped to the original contour and stockpiled soil spread over the disturbed area. Any drainages rerouted during the construction activities shall be restored as near as possible to their original line of flow. Restoration activities shall begin when the pit is sufficiently dry. Once activities have been completed, the location site and access road shall be reseeded with a seed mixture recommended by the Bureau of Indian Affairs when the moisture content of the soil is adequate for seed germination.

5. DISPOSAL OF PRODUCED WATERS:

No produced water is anticipated. However if water is produced, Belco Development Corporation will comply with all requirements of NTL-2B.

6. SIGNS:

A sign stating the following shall be placed on the access road to the location site:

AUTHORIZED PERSONNEL ONLY
BELCO DEVELOPMENT CORPORATION
WELL IDENTIFICATION
FIREARMS ARE PROHIBITED
THIS LAND IS OWNED BY THE UINTAH
AND OURAY INDIAN RESERVATION
PERMITS TO CUT FIREWOOD MUST BE OBTAINED
FROM THE BIA FORESTRY SECTION PRIOR TO
CUTTING OR GATHERING ANY WOOD ALONG THIS ROAD

7. RIGHTS OF WAYS:

Right-of-way and damages will be paid as per the resurvey by Uintah Engineering and their affidavit of completion.

8. PERMITS FOR WATER OR EARTH FILL:

Water for this operation will be obtained from the White River, near the White River Bridge in Section 4, T9S, R20E. Permit for water will be purchased before the drilling operations commence.

9. WEED CONTROL:

Belco Development Corporation will initiate a plan for controlling noxious weeds alongside the location and road in accordance with BIA specifications.

10. LITTER:

All litter will be contained in a trash cage and removed from the location at the end of drilling and completion activities. The area will be groomed and cleaned before removal of the cage.

11. BENCH MARKS:

A bench mark will be established near the well site, set in concrete with a brass cap showing the well number and the elevation of the site.

DATE: _____

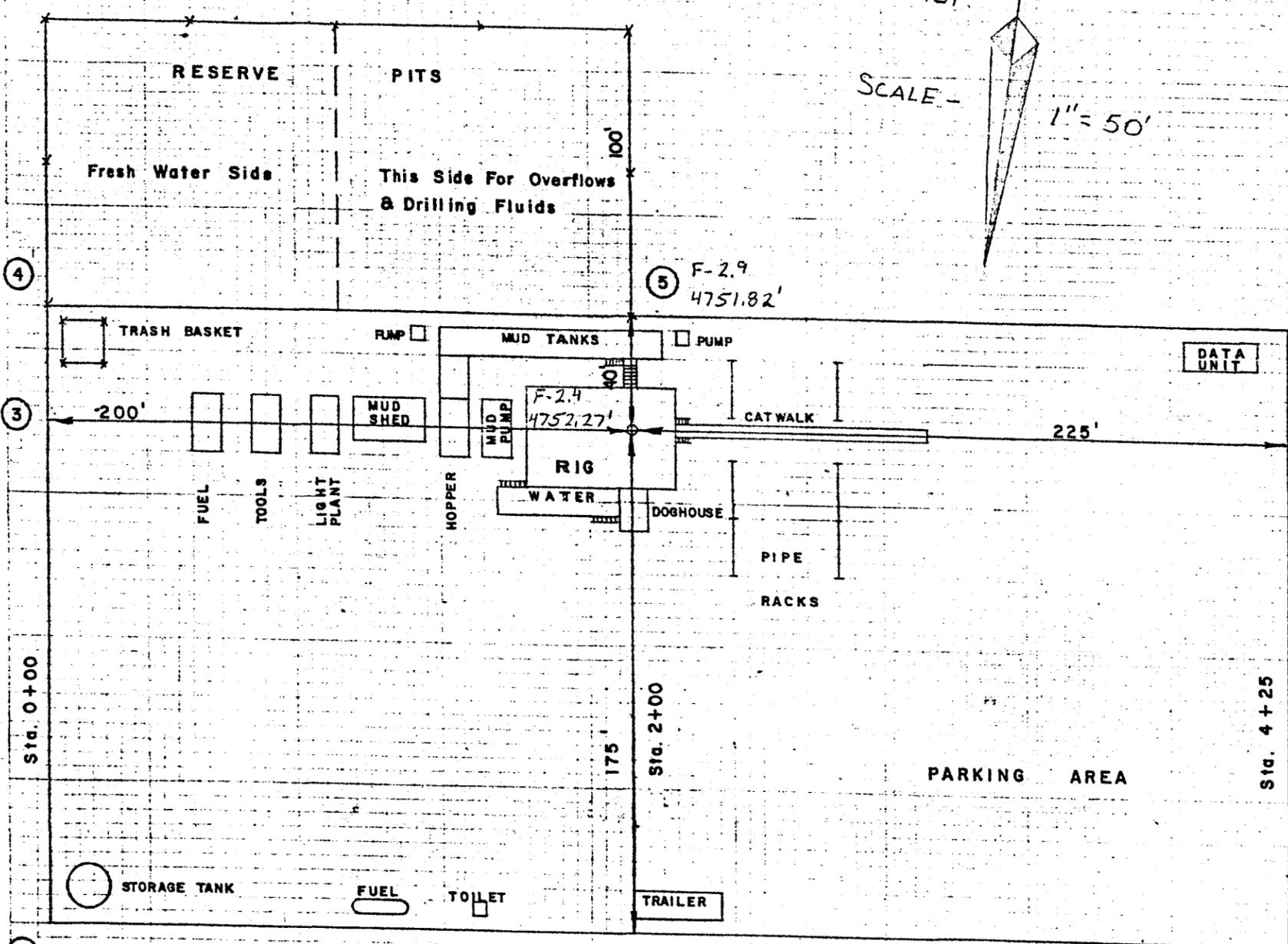
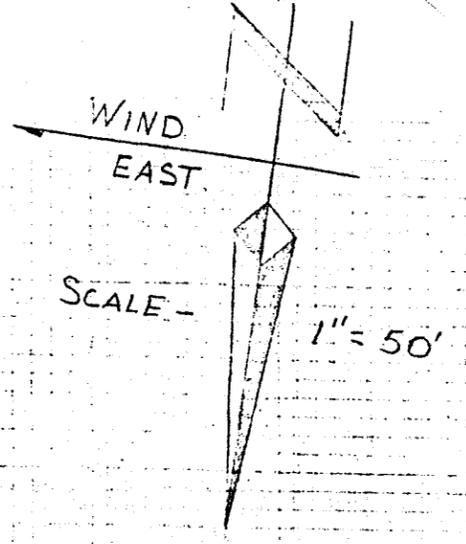
5/4/81



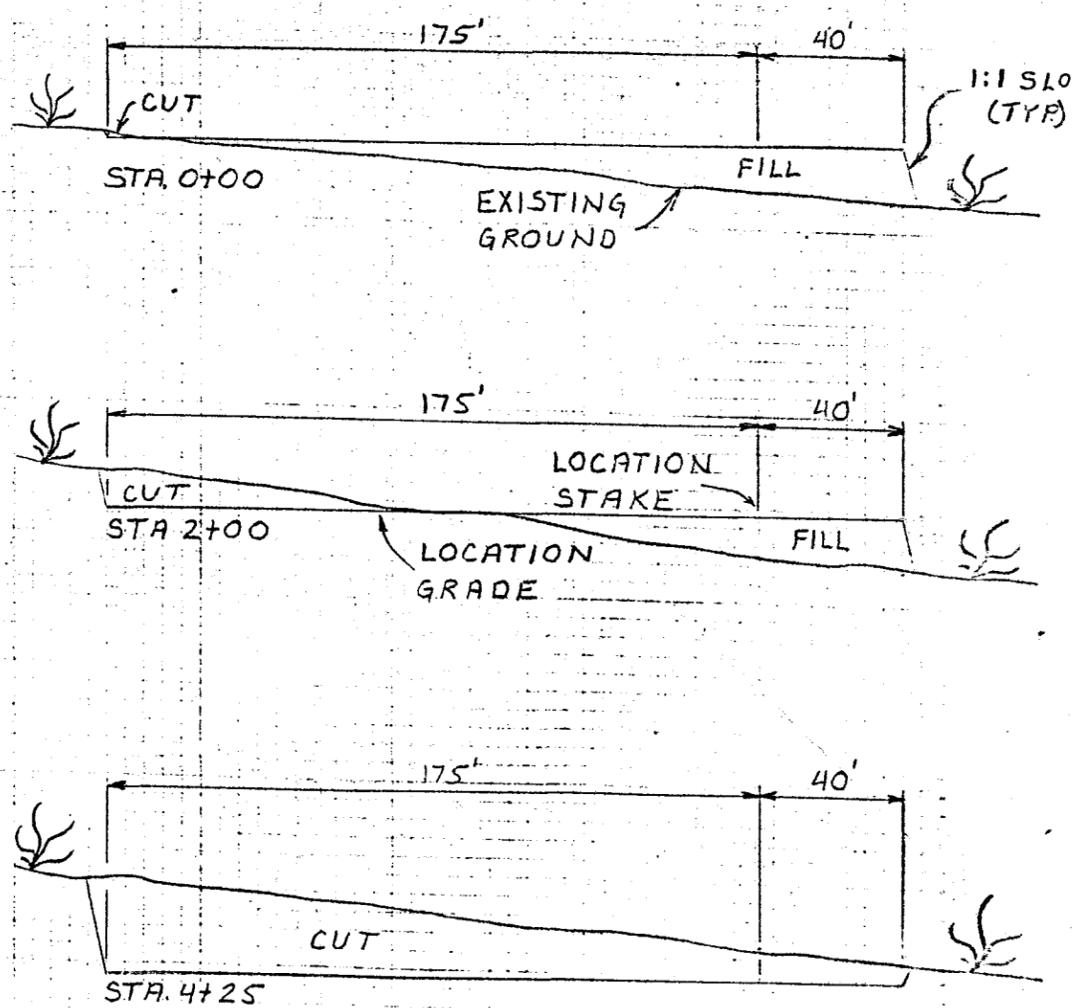
J. C. Ball
District Engineer

BELCO DEVELOPMENT CORP.

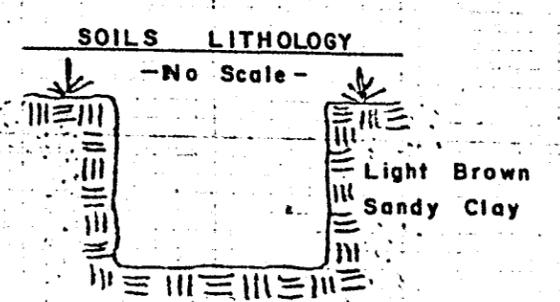
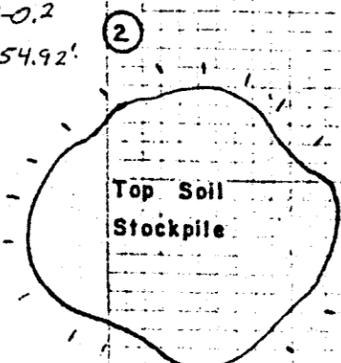
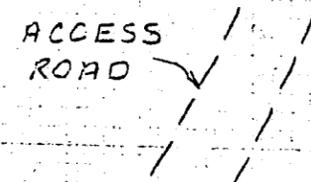
DUCK CREEK 46-17 GR



CROSS SECTIONS



SCALES
1" = 50'



F-3.2 4751.52'
F-2.7 4752.02'
C-0.2 4754.92'

F-2.9 4751.82'
F-2.4 4752.27'
C-2.0 4756.72'

C-0.2 4755.62'
C-1.5 4756.22'
C-5.2 4759.92'

BELCO DEVELOPMENT CORP.
PROPOSED LOCATION
DUCK CREEK 46-17 GR

TOPO. MAP "B"

SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light duty

Unimproved dirt

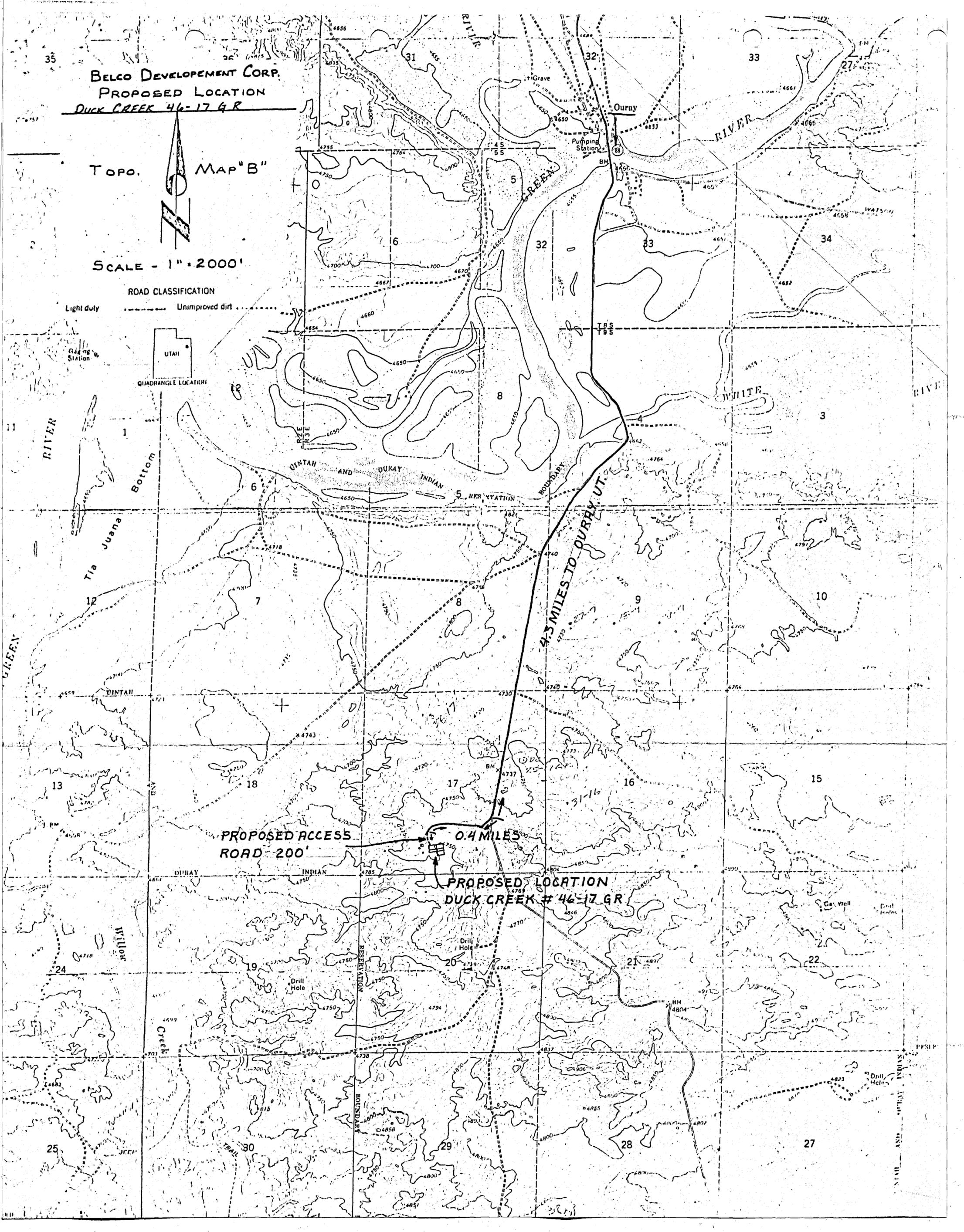
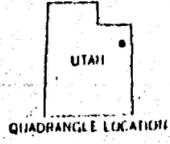
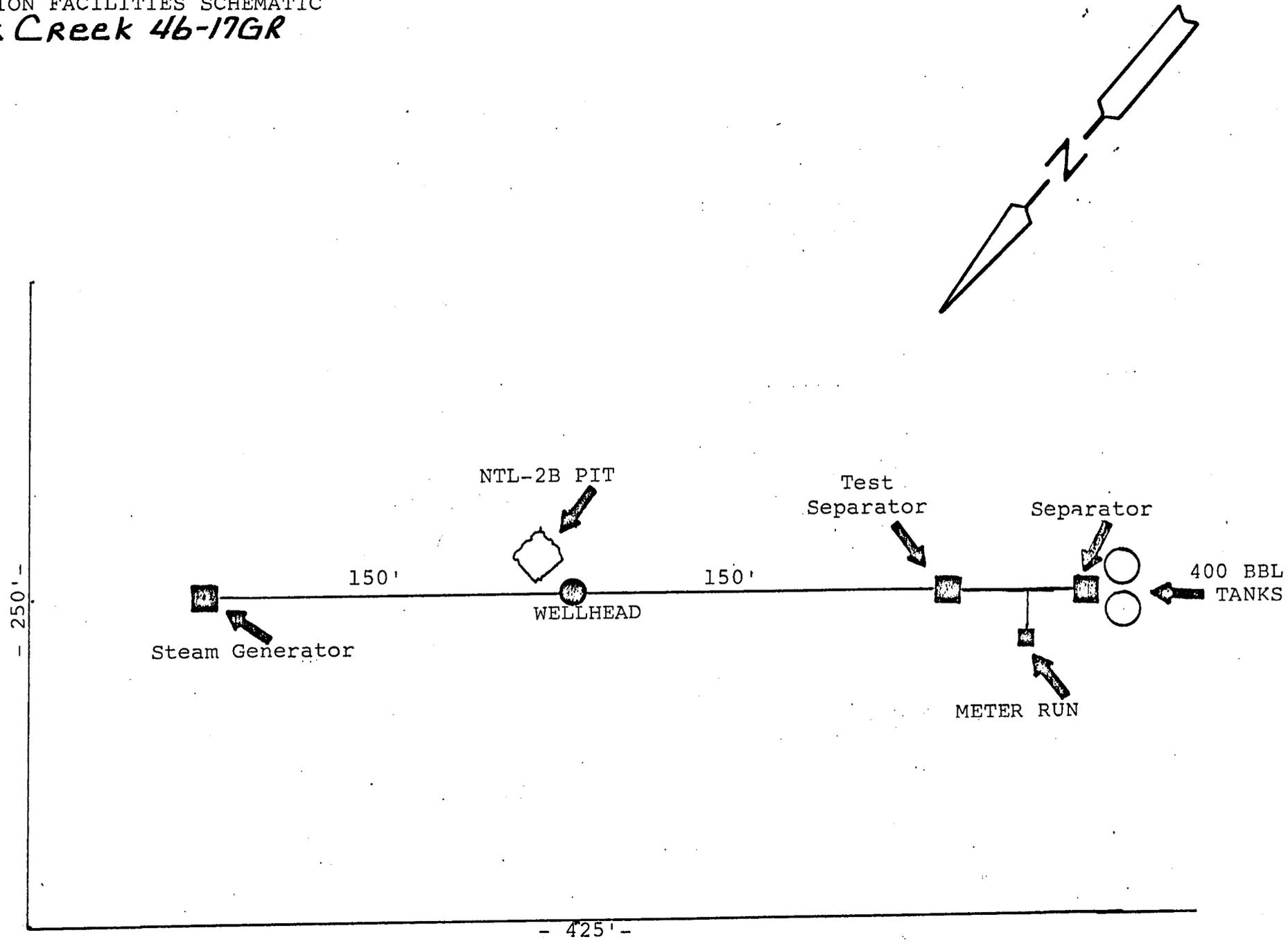


DIAGRAM "B"
PRODUCTION FACILITIES SCHEMATIC
Duck Creek 46-17GR



June 29, 1981

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

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

Insofar as this office is concerned, approval to drill the above referred to oil is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, this well may be completed as an oil well ONLY in the green river formation.

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 43-047-30995.

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 ~~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

Belco Development Corporation

Belco

March 8, 1982

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

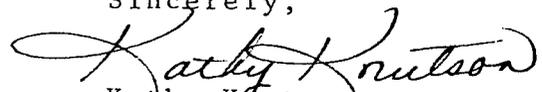
Attn: Cari Furse

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

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Sec. 17, T. 9S, R. 20E. ✓
Uintah County, Utah

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Uintah County, Utah

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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 ✓

LX 14

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

June 10, 1982

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

Re: Rescind Applications for Permit
to Drill
Well Nos. 45-17, 46-17 & 47-17
Section 17-T9S-R20E
Uintah County, Utah
Lease No. U-38400

Gentlemen:

The Applications for Permit to Drill the referenced wells were approved in May and June, 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 at these drill sites. Any surface disturbance associated with the approved locations of these wells will be rehabilitated. A schedule for the rehabilitations 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
MMS-Vernal
Well File
APD Control
DH/dh

RECEIVED

JUN 11 1982

DIVISION OF
OIL, GAS & MINING