



May 17, 1991

CONFIDENTIAL

BUREAU OF LAND MANAGEMENT
Grand Resource Area Office
88 S. Sand Flats Road
Moab, Utah 84532

RE: COLUMBIA GAS DEVELOPMENT CORPORATION
LETTER OF CERTIFICATION

Columbia Gas Development Corporation hereby certifies that it is the operator of the following wells:

Kane Springs Federal #28-1
Kane Springs Federal #14-1
Kane Springs Federal #20-1
Kane Springs Federal #10-1

Columbia Gas Development Corporation shall be responsible for complying with the terms and conditions of the lease for all the operations conducted on the leased land.

Signed this 17th day of May, 1991.

Leslie M. Moor, Jr.
Vice President, Drilling & Production

RECEIVED FOR WATER IN THE STATE OF UTAH

MAY 20 1991 MAY 13 1991

APPLICATION TO APPROPRIATE WATER PRICE

Rec. by: [Signature]
Fee Rec. 30.10
Receipt # 30919
Microfilmed
Roll #

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

*WATER RIGHT NO. 01 - 1081

*APPLICATION NO. A T65376

1. *PRIORITY OF RIGHT: May 13, 1991 *FILING DATE: May 13, 1991

2. OWNER INFORMATION

Name(s): Columbia Gas Development Corporation *Interest: %
Address: P.O. Box 1350
City: Houston State: Texas Zip Code: 77251-1350
Is the land owned by the applicant? Yes No X (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: cfs and/or 15.0 ac-ft.

4. SOURCE: Colorado River *DRAINAGE:
which is tributary to
which is tributary to

POINT(S) OF DIVERSION: COUNTY: Grand
S. 1300 ft. & E. 1230 ft. from NW Cor. Sec. 26, T25S, R21E, SLB&M

Description of Diverting Works: Tank trucks from diversion point to well site
*COMMON DESCRIPTION: Approx. 2 miles west of Moab Moab Quad

5. POINT(S) OF REDIVERSION

The water will be rediverted from at a point:

Description of Diverting Works:

6. POINT(S) OF RETURN

The amount of water consumed will be 15.0 cfs or ac-ft.
The amount of water returned will be cfs or ac-ft.
The water will be returned to the natural stream/source at a point(s):

7. STORAGE

Reservoir Name: Storage Period: from to
Capacity: ac-ft. Inundated Area: acres.
Height of dam: feet
Legal description of inundated area by 40 acre tract(s):

RECEIVED

JUN 20 1991

TEMPORARY

* These items are to be completed by the Division of Water Rights

Appropriate

8. List any other water rights which will supplement this application _____

9. NATURE AND PERIOD OF USE

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other:	From <u>May 7, 1991</u>	to <u>May 6, 1992</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons.
 Municipal (name): _____
 Mining: _____ Mining District in the _____ Mine.
 Ores mined: _____
 Power: Plant name: _____ Type: _____ Capacity: _____
 Other (describe): Dust suppression and drilling fluids for oil/gas exploration

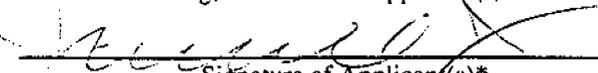
11. PLACE OF USE

Legal description of place of use by 40 acre tract(s):
Bartlett Flat Field:
 1) Kane Springs Federal #19-1: SW $\frac{1}{2}$ SE $\frac{1}{2}$ Sec. 19, T25S, R20E, SLB&M
 2) Kane Springs Federal #10-1:
 N 500 ft. & E. 1000 ft. from SW Cor. Sec. 10, T25S, R18E, SLB&M (SW $\frac{1}{2}$ SW $\frac{1}{2}$).
 3) Kane Springs Federal #14-1:
 N. 1000 ft. & W. 1000 ft. from SE Cor. Sec. 14, T26S, R19E, SLB&M (SE $\frac{1}{2}$ SE $\frac{1}{2}$).

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary):
Surface is owned by U.S. Government under the jurisdiction of the BLM.
 4) Kane Springs Federal #20-1:
 N. 1000 ft. & E. 2500 ft. from SW Cor. Sec. 20, T26S, R19E, SLB&M (SE $\frac{1}{2}$ SW $\frac{1}{2}$).
 5) Kane Springs Federal #28-1:
 N. 2000 ft. & W. 800 ft. from SE Cor. Sec. 28, T25S, R19E, SLB&M (NE $\frac{1}{2}$ SE $\frac{1}{2}$).
 6) Kane Springs State #36-1:
 N. 800 ft. & W. 1400 ft. from SE Cor. Sec. 36, T25S, R19E, SLB&M (SW $\frac{1}{2}$ SE $\frac{1}{2}$).

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).



 Signature of Applicant(s)*
 J. C. Braswell, Jr. - (Director of

*If applicant is a corporation or other organization, signature must be the name of such corporation or Drilling organization by its authorized agent, or in the name of the partnership by one of the partners.

Authorized Agent (please print)

Authorized Agent (signature)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

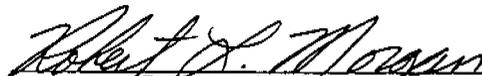
WATER RIGHT NUMBER: 01 - 1081

APPLICATION NO. T65376

1. May 13, 1991 Application received by MP.
 2. June 18, 1991 Application designated for APPROVAL by MP and KLJ.
 3. Comments:
Please advertise this Temporary Appl. for one week, with a one week protest
period.
-
-

Conditions:

This application is hereby APPROVED, dated June 19, 1991, subject to prior rights and this application will expire on June 19, 1992.



Robert L. Morgan, P.E.
State Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
COLUMBIA GAS DEVELOPMENT CORPORATION 713/871-3400

3. ADDRESS OF OPERATOR
P. O. BOX 1350 HOU., TX. 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 500' FSL & 1000' FWL
At proposed prod. zone 800' FSL & 1016' FWL
BHL: 2400' FSL & 1100' FWL SWSW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 air miles WNW of Moab, Utah

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any) 500'

16. NO. OF ACRES IN LEASE
1280

17. NO. OF ACRES ASSIGNED TO THIS WELL
640

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

19. PROPOSED DEPTH
7998' TVD cncr
9720' MD +/-

20. ROTARY OR CABLE TOOLS
ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL: 5247' RKB: 5273'

22. APPROX. DATE WORK WILL START*
September 20, 1991

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94#	805'	1335sx to Surface
17 1/2"	13 3/8"	61#	4730'	680sx to 3730'
12 1/4"	9 5/8"	53#	8130'	1610sx to 4500'
8 1/2"	5 1/2"	20"	8080' to 9720'	(production liner)

CONFIDENTIAL

See attached for additional supplemental info.:

- 1) Eight Point Drilling Program
- 2) Multi-Point Surface Use Plan
- 3) BOPE Diagram
- 4) Certified surveyor's plat, cut & fill sheet & Area Topog.
- 5) Letter of certification

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 R.J. Pier R.J. Pier TITLE Superintendent Moab Area DATE 6-28-91

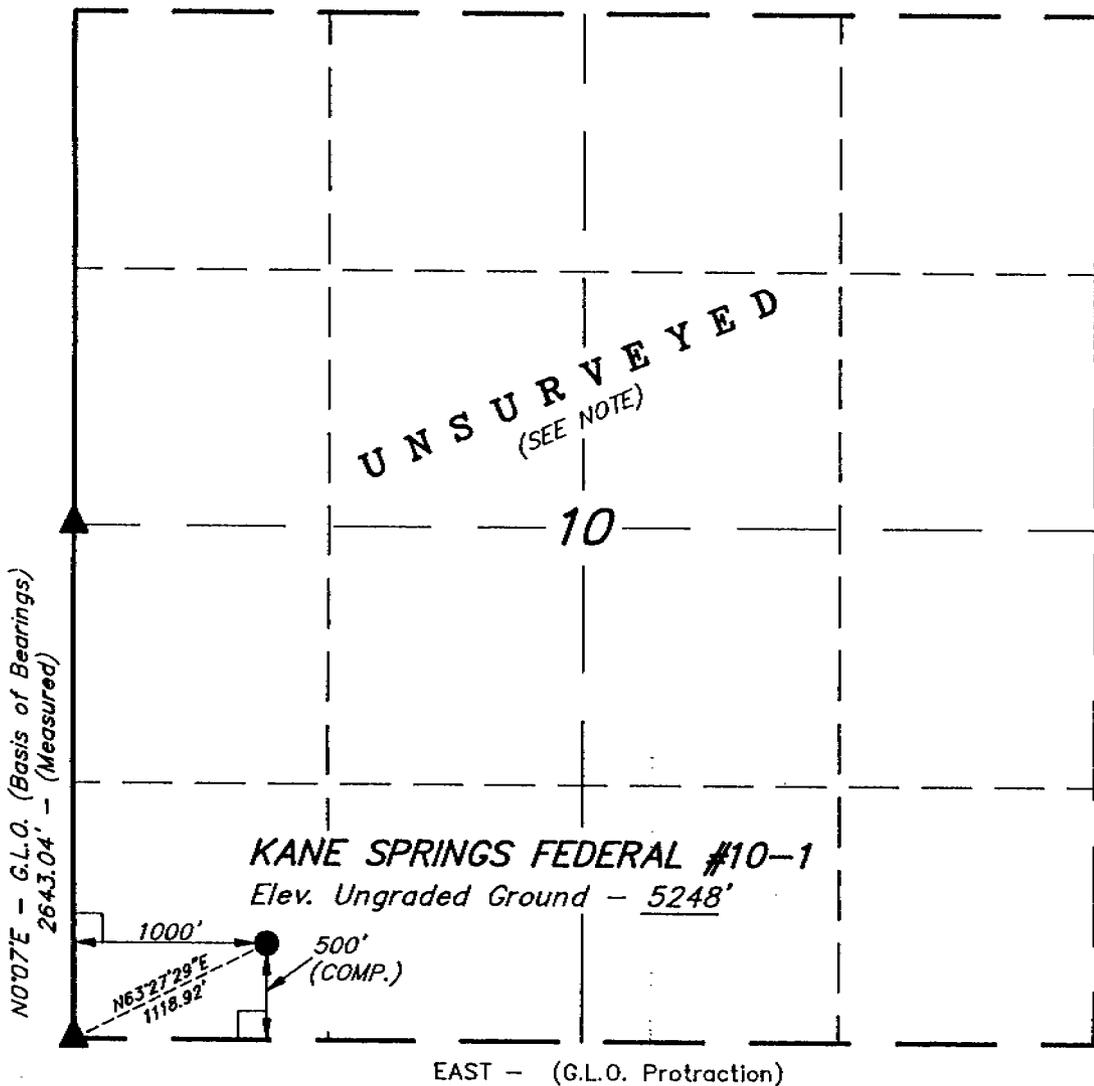
(This space for Federal or State office use)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6/28/91
BY: [Signature]
WELL SPACING: 640-30

*See Instructions On Reverse Side

T25S, R18E, S.L.B.&M.

CONFIDENTIAL



▲ = SECTION CORNERS LOCATED. (Brass Caps)

COLUMBIA GAS DEVELOPMENT CORP.

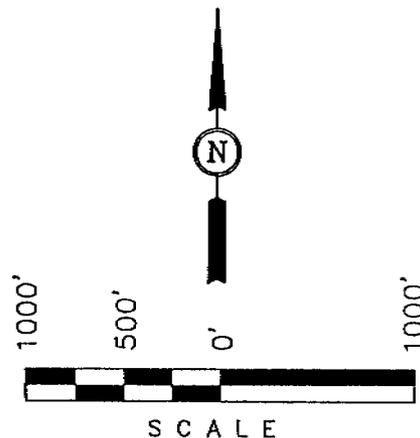
Well location, KANE SPRINGS FEDERAL #10-1, located as shown in the SW 1/4 SW 1/4 of Section 10, T25S, R18E, S.L.B.&M. Grand County, Utah.

BASIS OF ELEVATION

THE WHITE TRIANGULATION STATION LOCATED IN THE SE 1/4 OF SECTION 9, T25S, R18E, S.L.B.&M. TAKEN FROM THE DUBINKY WASH QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5484 FEET.

NOTE:

THIS SECTION IS UNSURVEYED EXCEPTING ITS WEST LINE AND ITS NORTHEAST CORNER. BEARING INFORMATION ON THE SOUTH SECTION LINE IS TAKEN FROM THE G.L.O. PROTRACTION DIAGRAM OF THIS TOWNSHIP, AND THE WELL FOOTAGES WERE COMPUTED ACCORDINGLY.



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.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 6-25-91 R.E.H.

REVISED: 5-24-91 R.E.H.

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 5-19-91
PARTY J.T.K. B.D. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE COLUMBIA GAS DEV. CORP.

CONFIDENTIAL

EIGHT-POINT DRILLING PROGRAM

COMPANY: Columbia Gas Development Corporation
WELL NAME: Kane Springs Federal #10-1
LOCATION: Sec. 10, T25S, R18E, Grand County, Utah

Onsite Inspection Date: May 21, 1991

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulation 43 CFR 3100, Onshore Oil & Gas Order No.1, and the approved plan of operations. A copy of these conditions will be furnished to the field representative to insure compliance.

1. Estimated Geological Markers

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	RKB = 26
Kayenta	Surface	+5247	
Wingate	418	+4855	
Chinle	753	+4520	
Cutler	1593	+3680	
Hermosa	2853	+2420	
Paradox Salt	4633	+ 640	
Cane Creek	7973	-2700	

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	<u>Remarks</u>
Wingate	418	+4855	Fresh Water
Cane Creek	7973	-2700	Oil

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected.

3. Operator's Minimum Specifications for Pressure Control Equipment

The Moab BLM office will be notified, with sufficient lead time, to witness pressure testing of BOPE.

A rotating head and blooey line will be rigged up on the conductor and surface pipe. See Exhibit C-1.

One (1) 2000 psi annular bag-type preventer will be utilized while drilling the surface hole.

One (1) 5000 psi annular bag-type and three (3) 5000 psi ram-type preventers will be utilized whiled drilling below the intermediate

CONFIDENTIAL

pipe. Ram preventers are to be tested to seventy percent (70%) of the working pressure, or seventy percent (70%) of the burst rating of the intermediate pipe, whichever is lesser. Annular preventer is to be tested to fifty percent (50%) of working pressure. See Exhibit C-2.

Choke manifold will meet or exceed the requirements of the typical 5M manifold as in Onshore Order #2. See Exhibit C-3.

All BOPE and testing procedures will be consistent with API RP-53 and will be conducted before drilling out casing shoe. Preventers will be inspected and operated at least once daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report.

4. Casing Program and Auxiliary Equipment

The Moab BLM office will be notified, with sufficient lead time, to witness the running and cementing of all casing strings.

Surface Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-805'	20"	94	H40	BTC	1530/2.9	520/1.5	1077M#/1.5 Bearing

Set 50' into the Chinle. Cemented to surface with 1335sx Class B.

Intermediate Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-4730'	13-3/8	61	K55	STC	3090/1.09	1540/1.48	633M/2.19

Cemented with 265sx lightweight plus 415sx Class B, with estimated top of cement at 3730'. Pressure test to 2160 psi before drilling out shoe.

Collapse design based on .22 psi/ft gradient. Burst design based on shoe test of 13.5 ppg less .1 psi/ft gas gradient.

Production Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-8130'	9-5/8	53	S95	LTC	9410/1.78	8850/1.11	1235M/3.46

Set 5'TVD into top of Cane Creek formation.

Cemented with 1610sx Class G, with estimated top of cement at 4500'. Pressure test to 5000 psi before drilling out shoe.

Collapse design based on 1.0 psi/ft overburden gradient. Burst based on max. mud wt in offset wells (17.0 ppg) less .22 psi/ft oil gradient.

CONFIDENTIAL

Production Liner

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
8080-9720'	5-1/2	20	S95	BTC	10680/NA	10680/1.51	554M/22.6

Bottom 1590' to be pre-drilled with 3/4" holes, 3' apart at 90° phase.

An isolation packer will be run on top of the liner.

Collapse design based max. mud wt in offset wells (17.0 ppg).

Auxiliary Equipment

A kelly cock will be kept in the string at all times.

A stabbing valve will be kept on the derrick floor at all times.

A float will not be used, other than when air drilling.

5. Mud Program

No chromates will be used in this well.

<u>Depth</u>	<u>Mud Wt</u>	<u>Visc.</u>	<u>PV</u>	<u>YP</u>	<u>WL</u>	<u>Mud Type</u>
0-805'	---	---	---	--	--	Air/Mist
805-4730'	---	---	---	--	--	Air/Mist
4730-7950' TVD	9.6	42-46	18	21	<10	Oil Base
7950-7984' TVD	9.6-12.5	42-46	18	21	<10	Oil Base
7984-7998' TVD	16.5	54-57	35	21	<4	Oil Base

6. Testing, Logging and Coring Programs

A. Drill Stem Tests: None planned.

B. Well Logging and Intervals:

Induction/Sonic/GR 4730-7574' TVD

MWD-Induction/GR will be attempted in the horizontal section (7574-9720' MD, 7998' TVD).

C. Cores: A 30' oriented core will be attempted in the Cane Creek formation.

D. Directional Surveys: This well as proposed will be drilled vertically to 7574' and then drilled as a medium radius horizontal well in the direction of N 3° E for a total displacement of 1903'. Inclination test will be taken at 500' and at 1000' maximum intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum intervals. During the horizontal portion of

the hole, surveys will be taken at 200' maximum intervals.

- E. Samples: One sample will be taken at 10' intervals from 4730' to TD.
- F. Mud Logger: There will be a mud logger on location from 4730' (below intermediate pipe) to TD.
- G. Completion Procedure: To be submitted on Form 5 under "Approval of Subsequent Operations".

Where the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filled with Form 3160-4.

7. Anticipated Abnormal Pressure, Temperatures or Potential Hazards

Abnormal pressure is anticipated in the Cane Creek formation. The proposed casing program and pressure control equipment has been designed based on the anticipated abnormal pressures of the Cane Creek formation.

Hydrogen Sulfide is not anticipated.

8. Notification of Operations & Other Information

Construction of location is scheduled to start on September 20, 1991.

No location will be constructed or moved, no well will be plugged and no drilling or workover equipment will be removed from well to be placed in a suspended status without prior approval of the AO.

Spud date is scheduled for September 27, 1991. The spud date will be reported orally to the AO within 48 hours after spudding, or on the next business work day if spud occurs on a weekend.

Spills, blowouts, fires, leaks, accidents or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revisions.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO

will be notified when the well is placed in a production status. Notification will be made no later than five days following the date on which the well is placed on production.

Venting/flaring of gas during initial well evaluation tests will not exceed a period of thirty days or the production of 50 MMcf of gas, whichever occurs first. An application will be filed with the District Engineer and approval received, for any venting or flaring beyond the initial 30 day authorized test period.

Well abandonment operations will commence only after prior approval has been received from the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" will be filed with the AO within 30 days following completion of the well abandonment operations.

There will be no deviation from the proposed drilling and/or workover program without prior approval of the AO. Safe drilling and operating practices will be observed.

This well, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.3-2.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

COMPANY : Columbia Gas Development Corporation
WELL NAME & NUMBER: Kane Springs Federal #10-1
LEASE NO.: USA 47858
LOCATION: 1000' FWL & 500' FSL
Sec.10-T25S-R18E S.L.B&M
SURFACE OWNERSHIP: Bureau of Land Management

NOTIFICATION REQUIREMENTS

Notify Elmer Duncan of the Grand Resource Area, at (801)259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801)259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer Office: (801)259-6111
Home: (801)259-6239

Eric Jones, Petroleum Engineer Office: (801)259-6111
Home: (801)259-2214

If unable to reach the above individuals including weekends, holidays or after hours please call the following:

Lynn Jackson,
Chief, Branch of Fluid Minerals Office: (801)259-6111
Home: (801)259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS

ONSITE DATE: May 21, 1991

THIRTEEN POINT SURFACE USE PROGRAM

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

1. EXISTING ROADS

A. Existing road and location in relation to location submitted on Exhibit "A".

B. From Moab, Utah:

Travel North on 191 for approx. 11 miles - Turn left onto Highway 313 & travel approx. 16 miles - Turn right and travel .8 of a mile to the proposed access of approx. 250' to location.

C. Description of roads in area: All weather asphalt & two wheel jeep roads.

2. PLANNED ACCESS ROADS

A. Length: .8 mile of existing dirt road which needs upgrading and approx. 250' of proposed new access.

B. Width: 18' running surface

C. Maximum Grades: N/A

D. Turnouts: None

E. Drainage Design: There will be minimum disturbance during drilling phase. If the well is a producer upgrading will be done as required.

F. Location and size of culverts and/or bridges, and brief description of any major cuts and fills: None

G. Surface Material Source: Native materials

H. Necessary gates, cattleguards, or fence cuts and/or modification to existing facilities:

All travel will be confined to existing access road.

I. Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to

the construction of access road, and drill pad.

Access and location under the jurisdiction of the Bureau of Land Management.

- J. Columbia Gas Development Corporation will provide Dirt Contractor with necessary maps, pad and road construction plans.

3. LOCATION OF EXISTING WELL

Within a one mile radius of this proposed well there is one well.

McRae Federal #1 - Dry Hole.

Within a one mile radius of this proposed well there are no known:

Water wells, abandoned wells, disposal wells, injection wells, monitoring wells or drilling wells.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to construction of production facilities.

- A. If well is productive, new on-well pad facilities and lines will be submitted as "as built" under the following guidelines:

1. Tank battery and/or location will be surrounded by a dike of sufficient capacity to contain the contents of the largest vessel within the dike plus one day's production.
2. Facilities will be placed in cut as much as possible.
3. A wind-sock will be placed on the Tank battery so it is visible from all parts of the location.
4. All internal combustion engines associated with production facilities will be equipped with noise reducing mufflers.
5. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat non-reflective, earthtone color to match one of the standard environmental colors as determined by the Rocky Mountain Five State

Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with O.S.H.A. will be excluded.

6. Fire prevention and suppression requirements for operations on Federal lands will be followed as per Bureau of Land Management guidelines.
7. No permanent above ground pipelines will be installed between the wellhead and treater or between the treater and flare pit.
8. All spills (production water or oil) or pipeline breaks outside the diked area will be reported within the 24 hours to the District office.

5. LOCATION AND TYPE OF WATER SUPPLY

The necessary permits will be obtained by the operator from the appropriate State Water Rights Division office for the use of water at the drillsite.

Fresh water & salt water will be trucked by a local trucking company.

6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside materials will be brought in.

7. METHODS FOR HANDLING WASTE DISPOSAL

A. Methods and location of proposed safe containment and disposal of each type of waste material:

1. Cuttings will be deposited in the reserve pit.
2. Drilling fluids will be confined to mud tanks and reserve pit if necessary. At rig release, mud will be returned to supplier for storage.
3. Produced Water: While testing the well, all produced water will be contained in a storage tank. If well is a producer, a saltwater storage tank will be installed with tank battery.
4. Sewage will be disposed of according to county and state requirements in a portable chemical

toilet or in a hole at least 15 deep excavated in the cut portion of the well pad.

5. Portable dumpsters will be used for all trash. All trash will be hauled offsite.

B. The Reserve pit shall be constructed so as not to leak, break, or allow discharge. The Reserve pit shall not be lined unless post construction inspection indicates a need to do so.

C. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the ninety day period, in accordance with NTL-2B, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the authorized officer's approval.

8. ANCILLARY FACILITIES

No camp, airstrip or other facility will be built during the drilling of this well.

9. WELL SITE LAYOUT

A. See attachment for the Well Site Layout showing the following: Substructure, Engine, Mud pumps, Mud tanks, Diesel tank, Water Tank, Boiler, Light plant, Dog house, Bunk house, Pipe racks, Catwalk, Choke manifold, Accumulator, Derrick stand, Wireline, Mud mixer, Change house, Trailers, Trash bin, parts house, Mud manifold, Mud storage, Desander/Desilter, Winterizing or parts tub.

Also attached is a cross section diagram showing cuts & fills in relation to existing topography.

The location will be constructed large enough to accommodate the drilling rig and associated equipment with allowance made for future completion and production equipment.

No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below stripping depth.

B. Fencing requirements - All pits will be fenced according to the following minimum standards:

1. 30-inch net wire shall be used with at least one strand of barbed wire on top of the net wire
2. The net wire shall be no more than 2-inches above

the ground. The barbed wire shall be 3-inches above the net wire. Total height of fence shall be 42-inches.

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

10. PLANS FOR RESTORATION OF SURFACE

A. Production location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1
3. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within ninety (90) days from the date of well completion. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.
4. Seed mixtures to be used in rehabilitation will be provided by the BLM District Office. Seed mixtures will be certified weed free and seeding will be accomplished during the spring or fall. Seed tags will be submitted to the area manager within 30 days of seeding.
5. Site rehabilitation will be completed within six (6) months, weather permitting. Before any pro-

duction facilities are constructed, a site reclamation plan will be submitted to the District Office for all areas not required for production facilities.

B. Dry Hole/Abandoned Location

1. At such time as well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the BLM will attach the appropriate surface rehabilitation conditions of approval.
2. The location will be rehabilitated within six (6) months, weather permitting, from the date the well is plugged.

11. SURFACE OWNERSHIP

Surface location and access roads are owned by the United States of American under jurisdiction of the Bureau of Land Management.

12. OTHER INFORMATION

- A. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator will immediately stop work that further disturb such materials, and contact the authorized officer. Columbia Gas Development Corporation will comply with the requirements set forth by the BLM Surface Use Stipulations.
- B. Columbia Gas Development Corporation has a One Hundred and Fifty Thousand (150,000) dollar Nationwide Bond - copy attached.
- C. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.
- D. There will be no deviation from the proposed

CONFIDENTIAL

drilling program without prior approval from the District.

- E. Sundry Notice & Report on wells (Form 3160-5) will be filed for approval of all changes of plans and other operations in accordance with 43 CFR 3164.
- F. Dirt Contractor will be provided with an approved copy of the Surface Use plan.
- G. Environmental Impacts.
 - 1. Setting is approximately 20 air miles west of Moab, Utah.
 - 2. Surface disturbance will be approximately 2.1 acres during the drilling phase and approximately 2.0 acres in the completion/production phase. The affected area has an estimated vegetation coverage of 5-10%. The topsoil will be replaced during abandonment procedures and reseeded. Surface impact will be temporary with no residual impacts. The surface area was moved as a result of the onsite meeting to reduce the amount of surface disturbance.
 - 3. Visual impacts will be limited to the drilling phase. The top section of the derrick will be visible from Hwy 313 for approx. 50 days.
 - 4. Audible impacts will be the greatest during the drilling and completion phases. Engine noise will be noticeable up to 3/4 mile during the drilling operations (estimated 50 days) and a 1/4 mile during the completion operations (estimated 10 days). Winterizing around engines will be installed.
 - 5. Particulate impacts will be temporary and local if dry soil conditions exist during construction and heavy traffic periods. Fugitive dust will be controlled by watering the road as necessary during pad construction and periods of heavy traffic.
 - 6. Recreational impacts are anticipated to be minimal. There will be approximately 44 truckloads of equipment to move the drilling rig in and the same number to move the rig out. Anticipated increased traffic other than moving the rig is 10-15 more vehicles per day during the drilling phase and 5-10 more vehicles per day during the completion phase. Increased traffic in the pro-

duction phase will be one auto per day and three truckloads until a pipeline is installed. Other than some minimal increased traffic, recreational impacts would be limited to the occasional hiker or biker.

13. LESSEE'S OR OPERATOR REPRESENTATIVE AND CERTIFICATION

Columbia Gas Development Corporation
P. O. Box 1350
Houston, Texas 77251-1350
713/871-3400

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

Certification

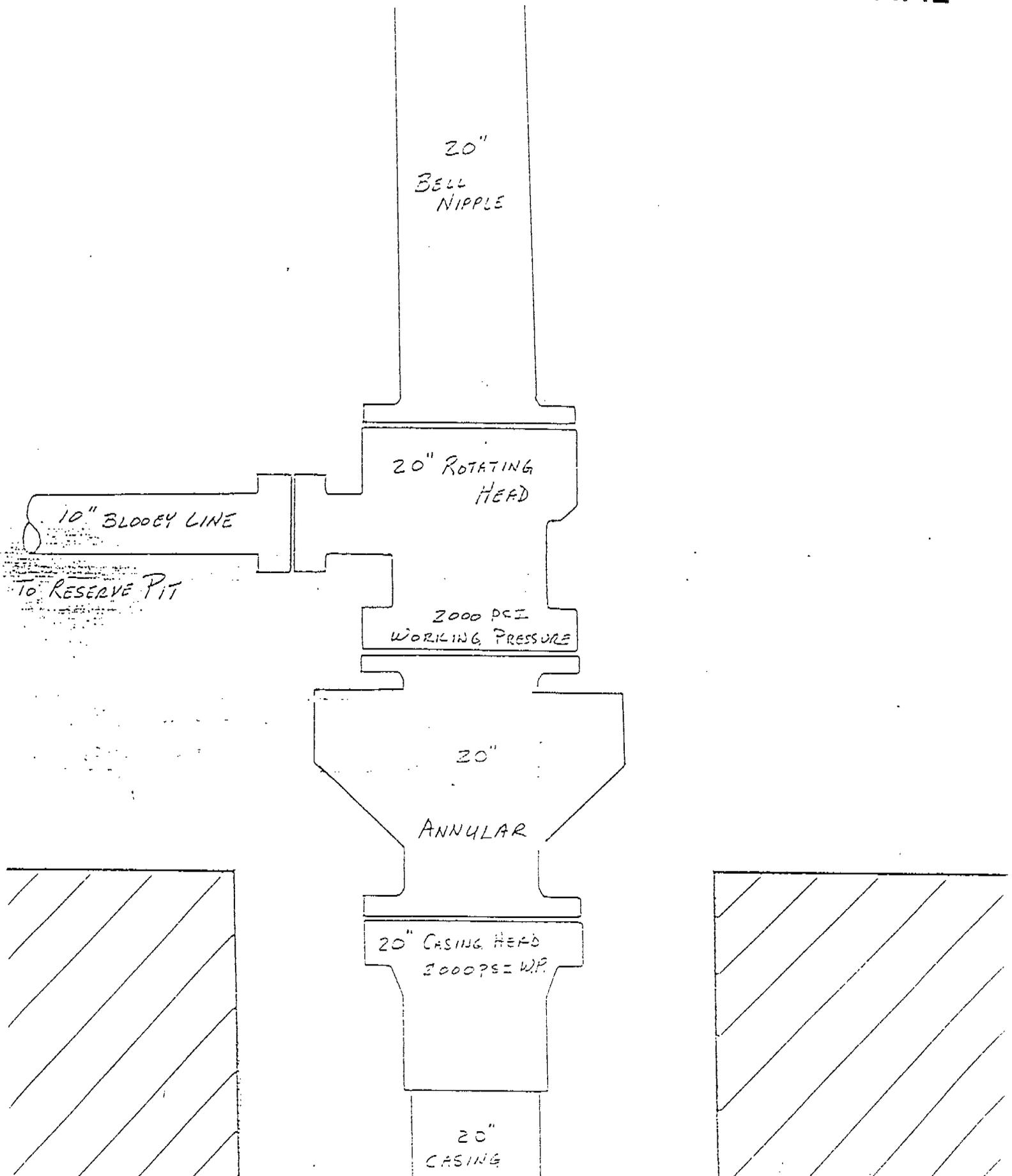
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and , that the work associated with the operations proposed here will be performed by Columbia Gas Development Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

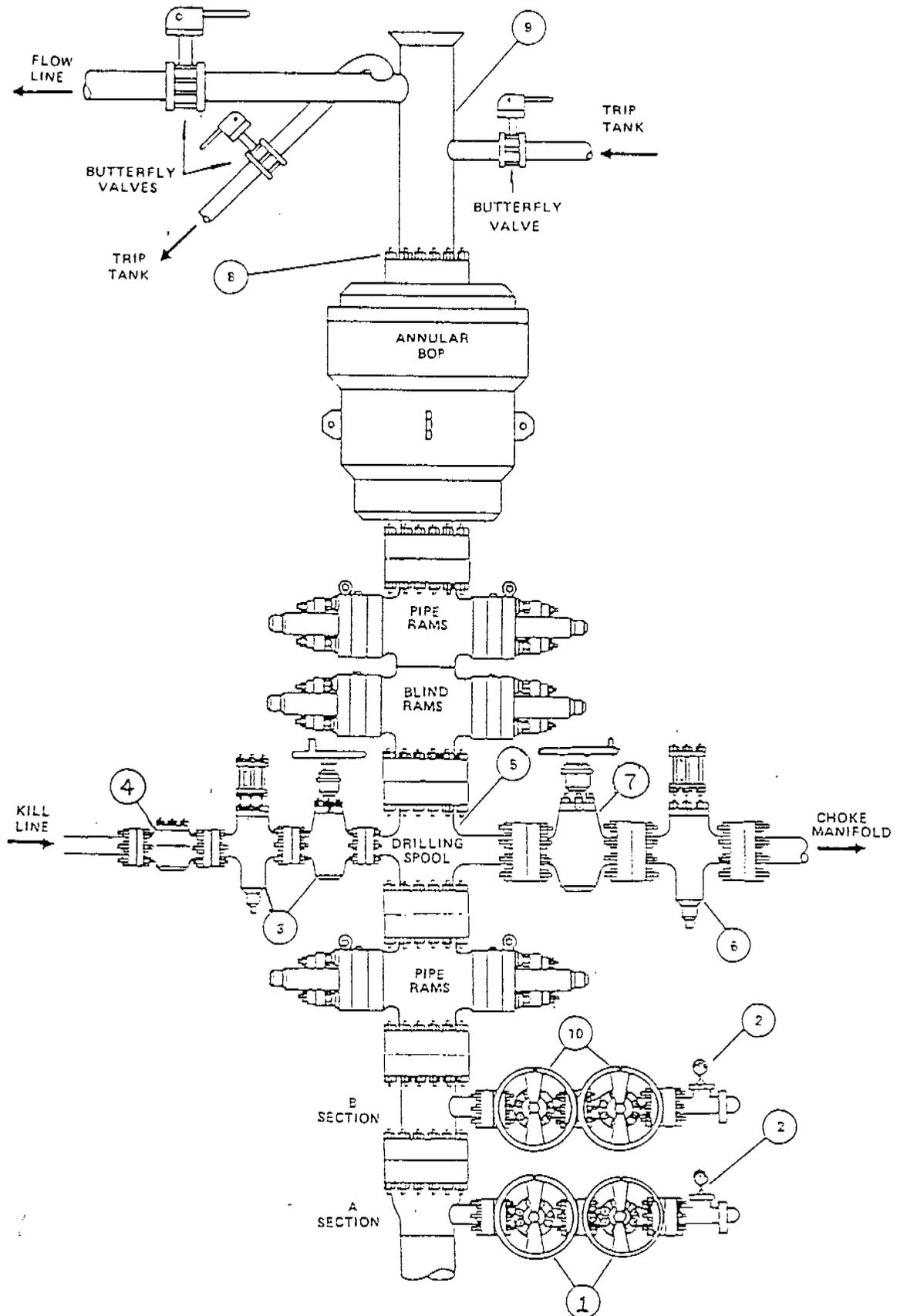
6-26-91

DATE

RJP

R. J. Pier, Superintendent,
Moab Area.





COMPONENT SPECIFICATIONS

1. Screwed or flanged plug or gate valves — 2" minimum nominal dia. — same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as BOP stack. Second valve up stream may be hydraulically controlled.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets — 3" choke and 2" kill line minimum nominal dia. (See Table II-4 and Note D.)
6. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack. (See Note D.)
7. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
9. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.
10. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as "B" section.

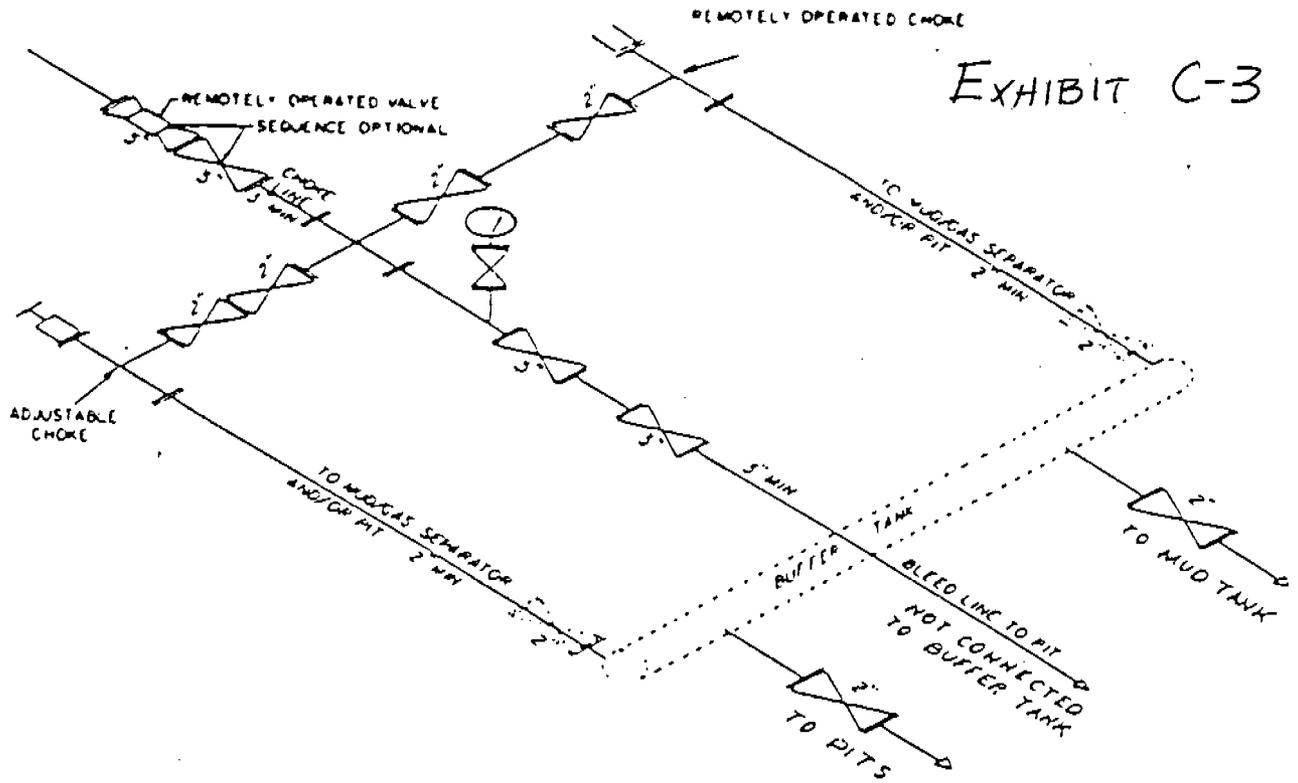
NOTE:

The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.

Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

CONFIDENTIAL

EXHIBIT C-3



SM CHOKES MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, or 15M drawings, it would also be applicable to those situations.

[FR Doc. 88-28738 Filed 11-17-88; 8:45 am]
BILLING CODE 4310-01-C

CONFIDENTIAL

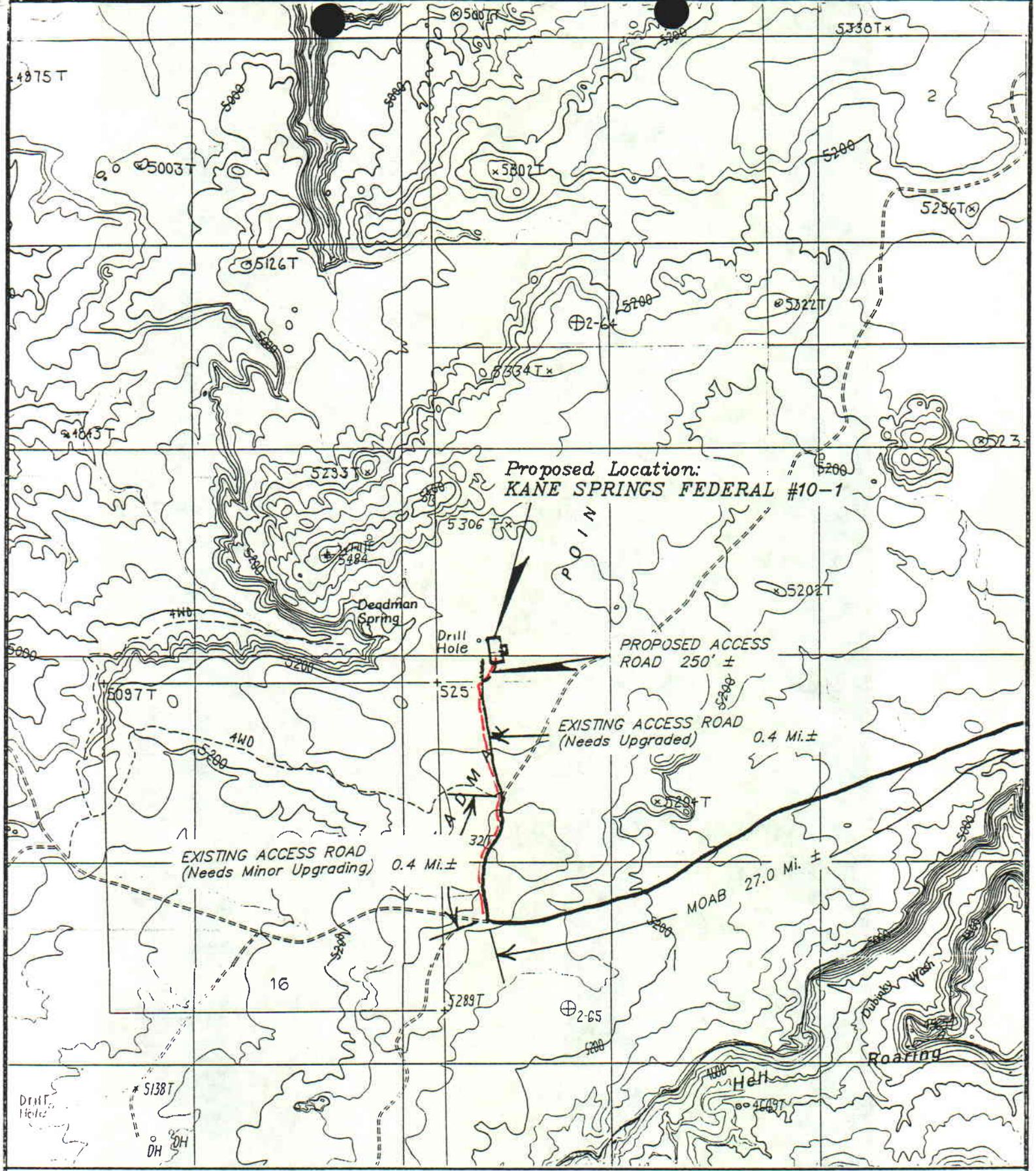
A D D E N D U M

COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL #10-1
SEC.10-T25S-R18E S.L.B.& M
GRAND COUNTY, UTAH

DATE OF ONSITE: MAY 21, 1991

H. Pipeline Right-of-Way

- 1) A pipeline connection to the "Trunk Line" will be constructed alongside the same path as the access as indicated on attached map B.
- 2) The pipeline will be buried. The metering point will be on the production pad.
- 3) Length of pipeline will be approx. .9 of a mile.
- 4) Western Gas Company will construct the pipeline. The pipeline right-of-way will be assigned to Western upon issuance.



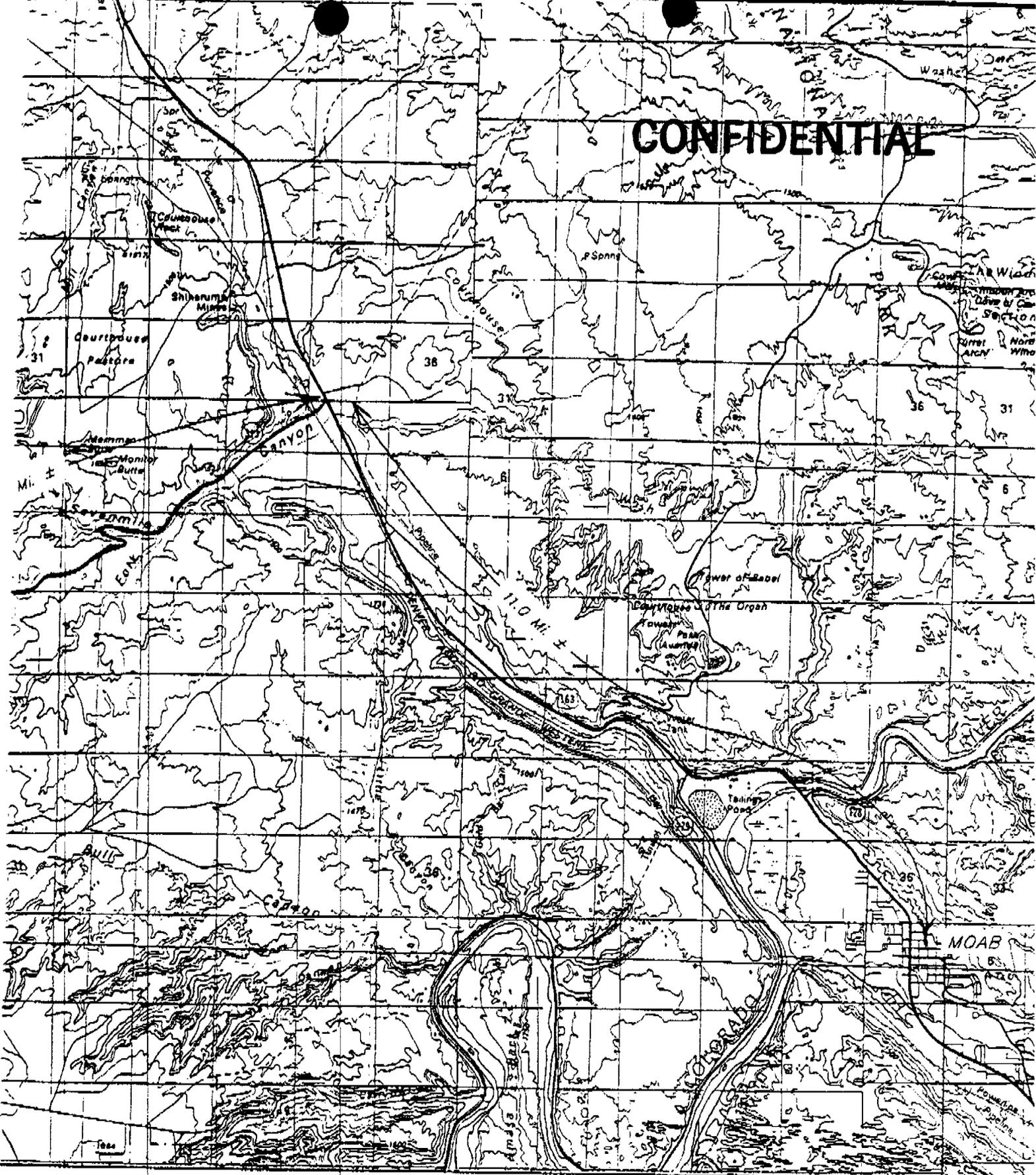
Proposed Location:
KANE SPRINGS FEDERAL #10-1

TOPOGRAPHIC
 MAP "B"
 SCALE: 1" = 2000'
 DATE: 5-24-91 R.E.H.



COLUMBIA GAS DEVELOPMENT CORP.
 KANE SPRINGS FEDERAL #10-1
 SECTION 10, T25S, R18E, S.L.B.&M.

CONFIDENTIAL

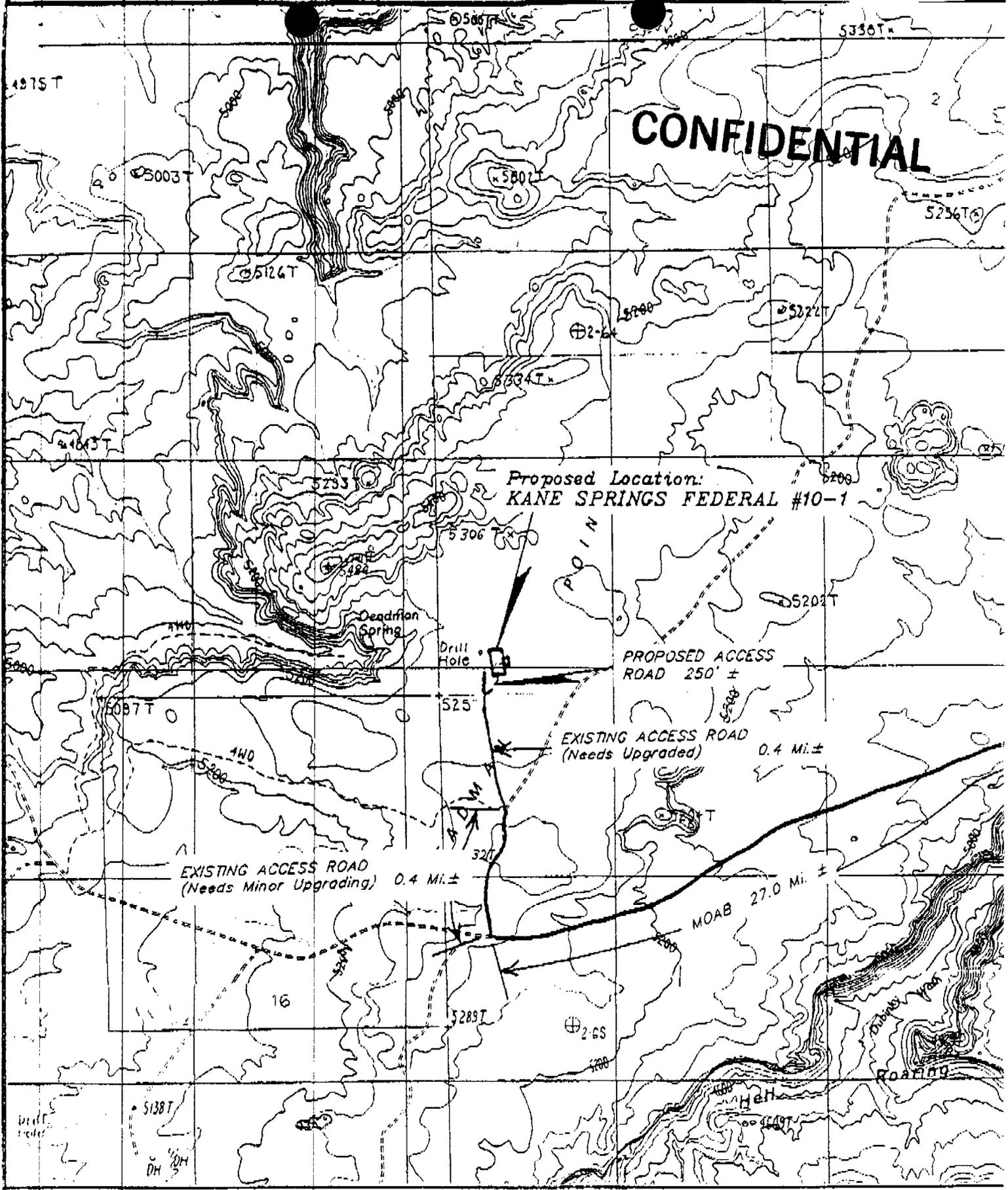


GRAPHIC
P "A"
-24-91 R.E.H.



COLUMBIA GAS DEVELOPMENT CORP.
KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.

CONFIDENTIAL



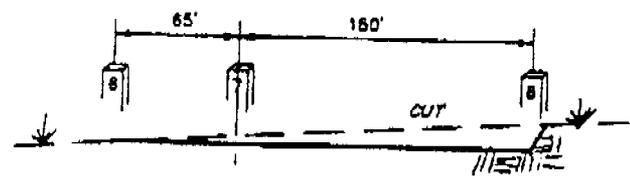
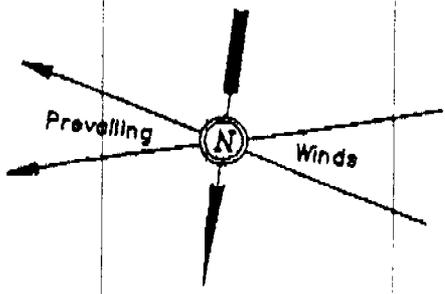
TOPOGRAPHIC
MAP "B"
SCALE: 1" = 2000'
DATE: 5-24-91 R.E.H.



COLUMBIA GAS DEVELOPMENT CORP
KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.

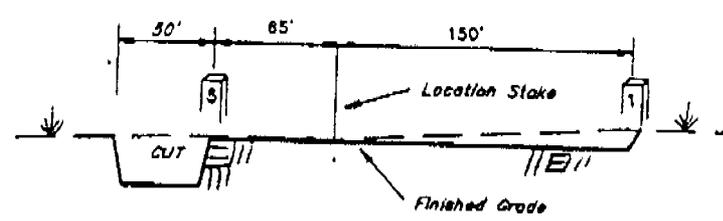
COLUMBIA GAS DEVELOPMENT CORP.

LOCATION LAYOUT FOR
KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.



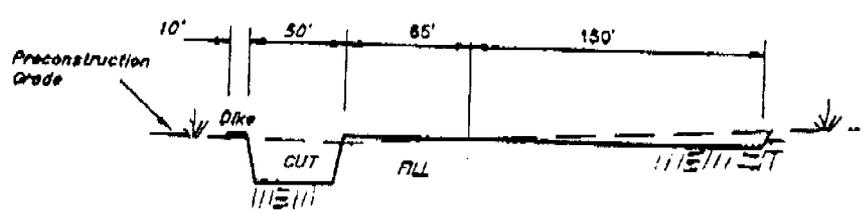
STA. 4+00

SCALE: 1" = 50'
DATE: 5-24-91
Drawn By: J.R.S.
REVISED: 6-18-91 R.E.H.

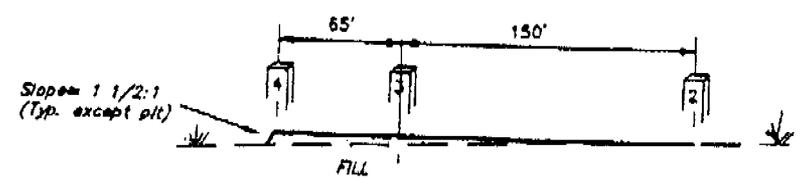


STA. 2+00

1" = 40'
X-Section Scale
1" = 100'



STA. 1+55



STA. 0+00

TYP. LOCATION LAYOUT TYP. CROSS SECTIONS

CONFIDENTIAL

APPROXIMATE YARDAGES

CUT			
(6") Topsoil Stripping	=	1,680 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION
Remaining Location	=	6,620 Cu. Yds.	= 7,020 Cu. Yds.
TOTAL CUT	=	8,300 CU.YDS.	Topsoll & Pit Backfill (1/2 Pit Vol.)
FILL	=	1,220 CU.YDS.	= 2,310 Cu. Yds.
			EXCESS UNBALANCE (After Rehabilitation)
			= 4,710 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5247.9'
FINISHED GRADE ELEV. AT LOC. STAKE = 5247.3'

COLUMBIA GAS
Development



June 28, 1991

RECEIVED

JUL 01 1991

DIVISION OF
OIL GAS & MINING

STATE OF UTAH NATURAL RESOURCES OIL,
GAS & MINING
355 W. NORTH TEMPLE, 3 TRIAD CENTRE,
STE. #350
SALT LAKE CITY, UTAH 84180-1203

Attention: Mr. R. J. Firth

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**
KANE SPRINGS FEDERAL #10-1
SEC.10-T258-R18E
GRAND COUNTY, UTAH

Dear Mr. Firth:

Please find enclosed two copies of Columbia's Federal Application for Permit to Drill at the above referenced location with all necessary attachments for processing.

If you have any questions, or require any additional information, do not hesitate to contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Aline A. Reese".

Aline A. Reese
Regulatory Clerk

AAR
Encl.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

UTU-47858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

KANE SPRINGS FEDERAL

8. FARM OR LEASE NAME

KANE SPRINGS FEDERAL

9. WELL NO.

#10-1

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

SEC. 10-T25S-R18E

12. COUNTY OR PARISH

GRAND

13. STATE

UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL

DEEPEN

PLUG BACK

1B. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

COLUMBIA GAS DEVELOPMENT CORPORATION

713/871-3400

3. ADDRESS OF OPERATOR

P. O. BOX 1350 HOU., TX. 77251-1350

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

At surface 500' FSL & 1000' FWL

At proposed prod. zone 800' FSL & 1016' FWL

BHL: 2400' FSL & 1100' FWL

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

20 air miles WNW of Moab, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit linc. if any)

500'

16. NO. OF ACRES IN LEASE

1280

17. NO. OF ACRES ASSIGNED

TO THIS WELL

640

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED, N/A
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

7998' TVD

9720' MD +/-

20. ROTARY OR CABLE TOOL

ROTARY

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

GL: 5247' RKB: 5273'

22. APPROX. DATE WORK WILL START*

September 20, 1991

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94#	805'	1335sx to Surface
17 1/2"	13 3/8"	61#	4730'	680sx to 3730'
12 1/4"	9 5/8"	53#	8130'	1610sx to 4500'
8 1/2"	5 1/2"	20"	8080' to 9720'	(production liner)

See attached for additional supplemental info.:

- 1) Eight Point Drilling Program
- 2) Multi-Point Surface Use Plan
- 3) BOPE Diagram
- 4) Certified surveyor's plat, cut & fill sheet & Area Topog.
- 5) Letter of certification

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

R.J. Pier

R.J. Pier

TITLE

Superintendent Moab Area

DATE

6-28-91

(This space for Federal or State office use)

PERMIT NO.

1

APPROVAL DATE

APPROVED BY THE STATE

OF UTAH DIVISION OF

OIL, GAS, AND MINING

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE: 8-19-91

BY: *[Signature]*

WELL SPACING: 67132

*See Instructions On Reverse Side

COLUMBIA GAS DEVELOPMENT CORP.

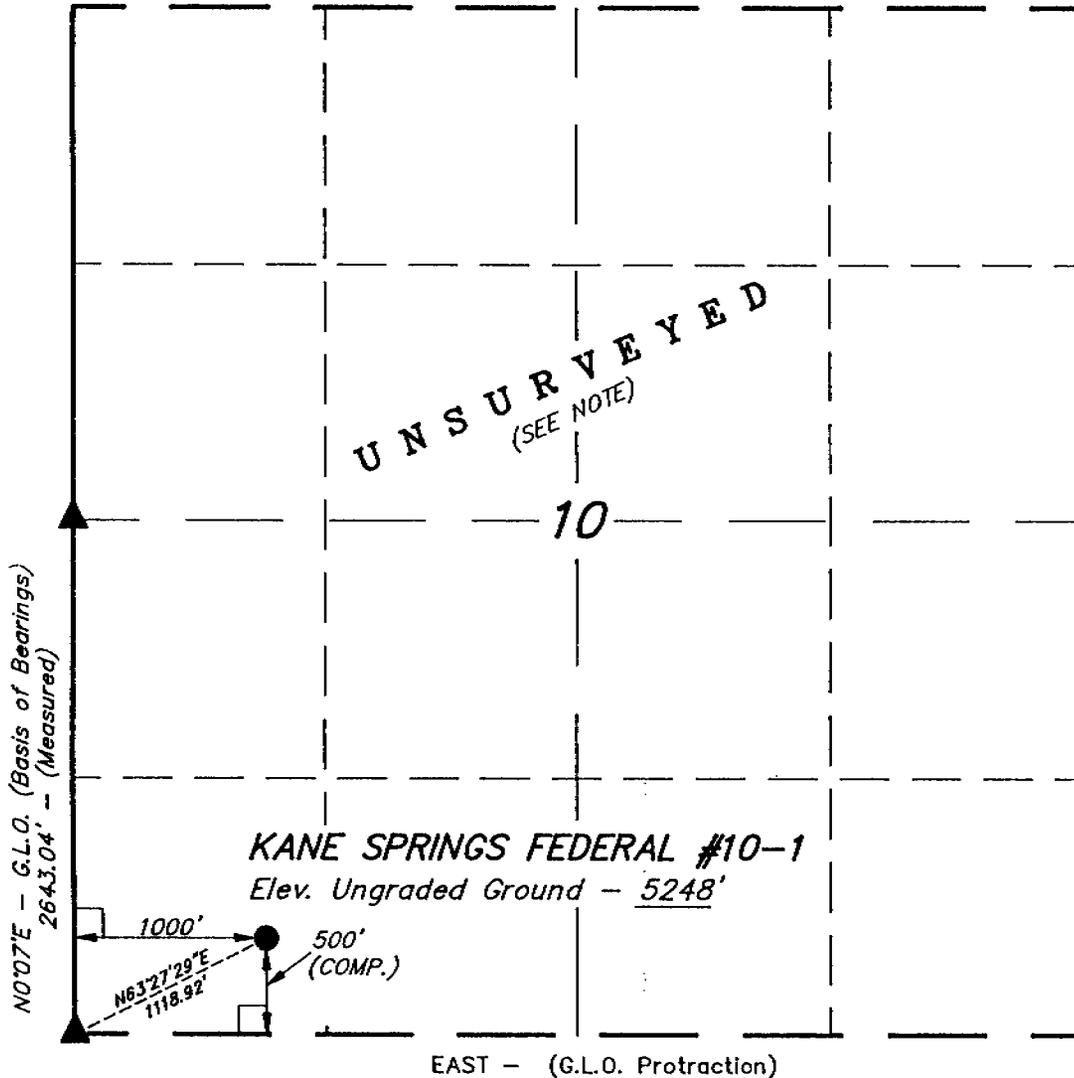
Well location, KANE SPRINGS FEDERAL #10-1, located as shown in the SW 1/4 SW 1/4 of Section 10, T25S, R18E, S.L.B.&M. Grand County, Utah.

BASIS OF ELEVATION

THE WHITE TRIANGULATION STATION LOCATED IN THE SE 1/4 OF SECTION 9, T25S, R18E, S.L.B.&M. TAKEN FROM THE DUBINKY WASH QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5484 FEET.

CONFIDENTIAL

T25S, R18E, S.L.B.&M.



N0°07'E - G.L.O. (Basis of Bearings) 2643.04' - (Measured)

UNSURVEYED
(SEE NOTE)

10

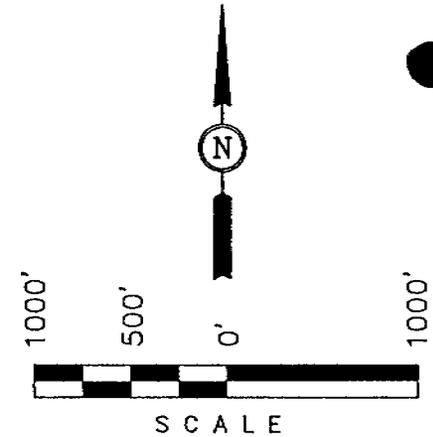
KANE SPRINGS FEDERAL #10-1
Elev. Ungraded Ground - 5248'

EAST - (G.L.O. Protraction)

▲ = SECTION CORNERS LOCATED. (Brass Caps)

NOTE:

THIS SECTION IS UNSURVEYED EXCEPTING ITS WEST LINE AND ITS NORTHEAST CORNER. BEARING INFORMATION ON THE SOUTH SECTION LINE IS TAKEN FROM THE G.L.O. PROTRACTION DIAGRAM OF THIS TOWNSHIP, AND THE WELL FOOTAGES WERE COMPUTED ACCORDINGLY.



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.

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

REVISED: 6-25-91 R.E.H.

REVISED: 5-24-91 R.E.H.

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX 1758 - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 5-19-91
PARTY J.T.K. B.D. R.E.H.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE COLUMBIA GAS DEV. CORP.

CONFIDENTIAL

EIGHT-POINT DRILLING PROGRAM

COMPANY: Columbia Gas Development Corporation
WELL NAME: Kane Springs Federal #10-1
LOCATION: Sec. 10, T25S, R18E, Grand County, Utah

Onsite Inspection Date: May 21, 1991

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulation 43 CFR 3100, Onshore Oil & Gas Order No.1, and the approved plan of operations. A copy of these conditions will be furnished to the field representative to insure compliance.

1. Estimated Geological Markers

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	RKB = 26
Kayenta	Surface	+5247	
Wingate	418	+4855	
Chinle	753	+4520	
Cutler	1593	+3680	
Hermosa	2853	+2420	
Paradox Salt	4633	+ 640	
Cane Creek	7973	-2700	

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	<u>Remarks</u>
Wingate	418	+4855	Fresh Water
Cane Creek	7973	-2700	Oil

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected.

3. Operator's Minimum Specifications for Pressure Control Equipment

The Moab BLM office will be notified, with sufficient lead time, to witness pressure testing of BOPE.

A rotating head and blooey line will be rigged up on the conductor and surface pipe. See Exhibit C-1.

One (1) 2000 psi annular bag-type preventer will be utilized while drilling the surface hole.

One (1) 5000 psi annular bag-type and three (3) 5000 psi ram-type preventers will be utilized whiled drilling below the intermediate

pipe. Ram preventers are to be tested to seventy percent (70%) of the working pressure, or seventy percent (70%) of the burst rating of the intermediate pipe, whichever is lesser. Annular preventer is to be tested to fifty percent (50%) of working pressure. See Exhibit C-2.

Choke manifold will meet or exceed the requirements of the typical 5M manifold as in Onshore Order #2. See Exhibit C-3.

All BOPE and testing procedures will be consistent with API RP-53 and will be conducted before drilling out casing shoe. Preventers will be inspected and operated at least once daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report.

4. Casing Program and Auxiliary Equipment

The Moab BLM office will be notified, with sufficient lead time, to witness the running and cementing of all casing strings.

Surface Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-805'	20"	94	H40	BTC	1530/2.9	520/1.5	1077M#/1.5 Bearing

Set 50' into the Chinle. Cemented to surface with 1335sx Class B.

Intermediate Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-4730'	13-3/8	61	K55	STC	3090/1.09	1540/1.48	633M/2.19

Cemented with 265sx lightweight plus 415sx Class B, with estimated top of cement at 3730'. Pressure test to 2160 psi before drilling out shoe.

Collapse design based on .22 psi/ft gradient. Burst design based on shoe test of 13.5 ppg less .1 psi/ft gas gradient.

Production Pipe

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
0-8130'	9-5/8	53	S95	LTC	9410/1.78	8850/1.11	1235M/3.46

Set 5'TVD into top of Cane Creek formation.

Cemented with 1610sx Class G, with estimated top of cement at 4500'. Pressure test to 5000 psi before drilling out shoe.

Collapse design based on 1.0 psi/ft overburden gradient. Burst based on max. mud wt in offset wells (17.0 ppg) less .22 psi/ft oil gradient.

CONFIDENTIAL

Production Liner

<u>Interval</u>	<u>Size</u>	<u>Wt.</u>	<u>Gr.</u>	<u>Conn.</u>	<u>Burst/SF</u>	<u>Cols/SF</u>	<u>Tension/SF</u>
8080-9720'	5-1/2	20	S95	BTC	10680/NA	10680/1.51	554M/22.6

Bottom 1590' to be pre-drilled with 3/4" holes, 3' apart at 90° phase.

An isolation packer will be run on top of the liner.

Collapse design based max. mud wt in offset wells (17.0 ppg).

Auxiliary Equipment

A kelly cock will be kept in the string at all times.

A stabbing valve will be kept on the derrick floor at all times.

A float will not be used, other than when air drilling.

5. Mud Program

No chromates will be used in this well.

<u>Depth</u>	<u>Mud Wt</u>	<u>Visc.</u>	<u>PV</u>	<u>YP</u>	<u>WL</u>	<u>Mud Type</u>
0-805'	---	---	---	---	---	Air/Mist
805-4730'	---	---	---	---	---	Air/Mist
4730-7950' TVD	9.6	42-46	18	21	<10	Oil Base
7950-7984' TVD	9.6-12.5	42-46	18	21	<10	Oil Base
7984-7998' TVD	16.5	54-57	35	21	<4	Oil Base

6. Testing, Logging and Coring Programs

A. Drill Stem Tests: None planned.

B. Well Logging and Intervals:

Induction/Sonic/GR 4730-7574' TVD

MWD-Induction/GR will be attempted in the horizontal section (7574-9720' MD, 7998' TVD).

C. Cores: A 30' oriented core will be attempted in the Cane Creek formation.

D. Directional Surveys: This well as proposed will be drilled vertically to 7574' and then drilled as a medium radius horizontal well in the direction of N 3° E for a total displacement of 1903'. Inclination test will be taken at 500' and at 1000' maximum intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum intervals. During the horizontal portion of

the hole, surveys will be taken at 200' maximum intervals.

- E. Samples: One sample will be taken at 10' intervals from 4730' to TD.
- F. Mud Logger: There will be a mud logger on location from 4730' (below intermediate pipe) to TD.
- G. Completion Procedure: To be submitted on Form 5 under "Approval of Subsequent Operations".

Where the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filled with Form 3160-4.

7. Anticipated Abnormal Pressure, Temperatures or Potential Hazards

Abnormal pressure is anticipated in the Cane Creek formation. The proposed casing program and pressure control equipment has been designed based on the anticipated abnormal pressures of the Cane Creek formation.

Hydrogen Sulfide is not anticipated.

8. Notification of Operations & Other Information

Construction of location is scheduled to start on September 20, 1991.

No location will be constructed or moved, no well will be plugged and no drilling or workover equipment will be removed from well to be placed in a suspended status without prior approval of the AO.

Spud date is scheduled for September 27, 1991. The spud date will be reported orally to the AO within 48 hours after spudding, or on the next business work day if spud occurs on a weekend.

Spills, blowouts, fires, leaks, accidents or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revisions.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO

will be notified when the well is placed in a production status. Notification will be made no later than five days following the date on which the well is placed on production.

Venting/flaring of gas during initial well evaluation tests will not exceed a period of thirty days or the production of 50 MMcf of gas, whichever occurs first. An application will be filed with the District Engineer and approval received, for any venting or flaring beyond the initial 30 day authorized test period.

Well abandonment operations will commence only after prior approval has been received from the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" will be filed with the AO within 30 days following completion of the well abandonment operations.

There will be no deviation from the proposed drilling and/or workover program without prior approval of the AO. Safe drilling and operating practices will be observed.

This well, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.3-2.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

COMPANY : Columbia Gas Development Corporation
WELL NAME & NUMBER: Kane Springs Federal #10-1
LEASE NO.: USA 47858
LOCATION: 1000' FWL & 500' FSL
Sec.10-T25S-R18E S.L.B&M
SURFACE OWNERSHIP: Bureau of Land Management

CONFIDENTIAL

NOTIFICATION REQUIREMENTS

Notify Elmer Duncan of the Grand Resource Area, at (801)259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801)259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer Office: (801)259-6111
Home: (801)259-6239

Eric Jones, Petroleum Engineer Office: (801)259-6111
Home: (801)259-2214

If unable to reach the above individuals including weekends, holidays or after hours please call the following:

Lynn Jackson,
Chief, Branch of Fluid Minerals Office: (801)259-6111
Home: (801)259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS

ONSITE DATE: May 21, 1991

THIRTEEN POINT SURFACE USE PROGRAM

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

1. EXISTING ROADS

- A. Existing road and location in relation to location submitted on Exhibit "A".
- B. From Moab, Utah:

Travel North on 191 for approx. 11 miles - Turn left onto Highway 313 & travel approx. 16 miles - Turn right and travel .8 of a mile to the proposed access of approx. 250' to location.
- C. Description of roads in area: All weather asphalt & two wheel jeep roads.

2. PLANNED ACCESS ROADS

- A. Length: .8 mile of existing dirt road which needs upgrading and approx. 250' of proposed new access.
- B. Width: 18' running surface
- C. Maximum Grades: N/A
- D. Turnouts: None
- E. Drainage Design: There will be minimum disturbance during drilling phase. If the well is a producer upgrading will be done as required.
- F. Location and size of culverts and/or bridges, and brief description of any major cuts and fills: None
- G. Surface Material Source: Native materials
- H. Necessary gates, cattleguards, or fence cuts and/or modification to existing facilities:

All travel will be confined to existing access road.
- I. Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to

the construction of access road, and drill pad.

Access and location under the jurisdiction of the Bureau of Land Management.

- J. Columbia Gas Development Corporation will provide Dirt Contractor with necessary maps, pad and road construction plans.

3. LOCATION OF EXISTING WELL

Within a one mile radius of this proposed well there is one well.

McRae Federal #1 - Dry Hole.

Within a one mile radius of this proposed well there are no known:

Water wells, abandoned wells, disposal wells, injection wells, monitoring wells or drilling wells.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to construction of production facilities.

- A. If well is productive, new on-well pad facilities and lines will be submitted as "as built" under the following guidelines:

1. Tank battery and/or location will be surrounded by a dike of sufficient capacity to contain the contents of the largest vessel within the dike plus one day's production.
2. Facilities will be placed in cut as much as possible.
3. A wind-sock will be placed on the Tank battery so it is visible from all parts of the location.
4. All internal combustion engines associated with production facilities will be equipped with noise reducing mufflers.
5. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat non-reflective, earthtone color to match one of the standard environmental colors as determined by the Rocky Mountain Five State

Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with O.S.H.A. will be excluded.

6. Fire prevention and suppression requirements for operations on Federal lands will be followed as per Bureau of Land Management guidelines.
7. No permanent above ground pipelines will be installed between the wellhead and treater or between the treater and flare pit.
8. All spills (production water or oil) or pipeline breaks outside the diked area will be reported within the 24 hours to the District office.

5. LOCATION AND TYPE OF WATER SUPPLY

The necessary permits will be obtained by the operator from the appropriate State Water Rights Division office for the use of water at the drillsite.

Fresh water & salt water will be trucked by a local trucking company.

6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside materials will be brought in.

7. METHODS FOR HANDLING WASTE DISPOSAL

A. Methods and location of proposed safe containment and disposal of each type of waste material:

1. Cuttings will be deposited in the reserve pit.
2. Drilling fluids will be confined to mud tanks and reserve pit if necessary. At rig release, mud will be returned to supplier for storage.
3. Produced Water: While testing the well, all produced water will be contained in a storage tank. If well is a producer, a saltwater storage tank will be installed with tank battery.
4. Sewage will be disposed of according to county and state requirements in a portable chemical

toilet or in a hole at least 15 deep excavated in the cut portion of the well pad.

5. Portable dumpsters will be used for all trash. All trash will be hauled offsite.
- B. The Reserve pit shall be constructed so as not to leak, break, or allow discharge. The Reserve pit shall not be lined unless post construction inspection indicates a need to do so.
- C. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the ninety day period, in accordance with NTL-2B, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the authorized officer's approval.

8. ANCILLARY FACILITIES

No camp, airstrip or other facility will be built during the drilling of this well.

9. WELL SITE LAYOUT

A. See attachment for the Well Site Layout showing the following: Substructure, Engine, Mud pumps, Mud tanks, Diesel tank, Water Tank, Boiler, Light plant, Dog house, Bunk house, Pipe racks, Catwalk, Choke manifold, Accumulator, Derrick stand, Wireline, Mud mixer, Change house, Trailers, Trash bin, parts house, Mud manifold, Mud storage, Desander/Desilter, Winterizing or parts tub.

Also attached is a cross section diagram showing cuts & fills in relation to existing topography.

The location will be constructed large enough to accommodate the drilling rig and associated equipment with allowance made for future completion and production equipment.

No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below stripping depth.

- B. Fencing requirements - All pits will be fenced according to the following minimum standards:
 1. 30-inch net wire shall be used with at least one strand of barbed wire on top of the net wire
 2. The net wire shall be no more than 2-inches above

the ground. The barbed wire shall be 3-inches above the net wire. Total height of fence shall be 42-inches.

3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

10. PLANS FOR RESTORATION OF SURFACE

A. Production location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1
3. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within ninety (90) days from the date of well completion. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.
4. Seed mixtures to be used in rehabilitation will be provided by the BLM District Office. Seed mixtures will be certified weed free and seeding will be accomplished during the spring or fall. Seed tags will be submitted to the area manager within 30 days of seeding.
5. Site rehabilitation will be completed within six (6) months, weather permitting. Before any pro-

duction facilities are constructed, a site reclamation plan will be submitted to the District Office for all areas not required for production facilities.

B. Dry Hole/Abandoned Location

1. At such time as well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the BLM will attach the appropriate surface rehabilitation conditions of approval.
2. The location will be rehabilitated within six (6) months, weather permitting, from the date the well is plugged.

11. SURFACE OWNERSHIP

Surface location and access roads are owned by the United States of American under jurisdiction of the Bureau of Land Management.

12. OTHER INFORMATION

- A. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator will immediately stop work that further disturb such materials, and contact the authorized officer. Columbia Gas Development Corporation will comply with the requirements set forth by the BLM Surface Use Stipulations.
- B. Columbia Gas Development Corporation has a One Hundred and Fifty Thousand (150,000) dollar Nationwide Bond - copy attached.
- C. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.
- D. There will be no deviation from the proposed

CONFIDENTIAL

drilling program without prior approval from the District.

- E. Sundry Notice & Report on wells (Form 3160-5) will be filed for approval of all changes of plans and other operations in accordance with 43 CFR 3164.
- F. Dirt Contractor will be provided with an approved copy of the Surface Use plan.
- G. Environmental Impacts.
 - 1. Setting is approximately 20 air miles west of Moab, Utah.
 - 2. Surface disturbance will be approximately 2.1 acres during the drilling phase and approximately 2.0 acres in the completion/production phase. The affected area has an estimated vegetation coverage of 5-10%. The topsoil will be replaced during abandonment procedures and reseeded. Surface impact will be temporary with no residual impacts. The surface area was moved as a result of the onsite meeting to reduce the amount of surface disturbance.
 - 3. Visual impacts will be limited to the drilling phase. The top section of the derrick will be visible from Hwy 313 for approx. 50 days.
 - 4. Audible impacts will be the greatest during the drilling and completion phases. Engine noise will be noticeable up to 3/4 mile during the drilling operations (estimated 50 days) and a 1/4 mile during the completion operations (estimated 10 days). Winterizing around engines will be installed.
 - 5. Particulate impacts will be temporary and local if dry soil conditions exist during construction and heavy traffic periods. Fugitive dust will be controlled by watering the road as necessary during pad construction and periods of heavy traffic.
 - 6. Recreational impacts are anticipated to be minimal. There will be approximately 44 truckloads of equipment to move the drilling rig in and the same number to move the rig out. Anticipated increased traffic other than moving the rig is 10-15 more vehicles per day during the drilling phase and 5-10 more vehicles per day during the completion phase. Increased traffic in the pro-

duction phase will be one auto per day and three truckloads until a pipeline is installed. Other than some minimal increased traffic, recreational impacts would be limited to the occasional hiker or biker.

13. LESSEE'S OR OPERATOR REPRESENTATIVE AND CERTIFICATION

Columbia Gas Development Corporation
P. O. Box 1350
Houston, Texas 77251-1350
713/871-3400

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and , that the work associated with the operations proposed here will be performed by Columbia Gas Development Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

6-26-91

DATE

RJP

R. J. Pier, Superintendent,
Moab Area.

20"
BELL
NIPPLE

20" ROTATING
HEAD

10" BLOODEY LINE

TO RESERVE PIT

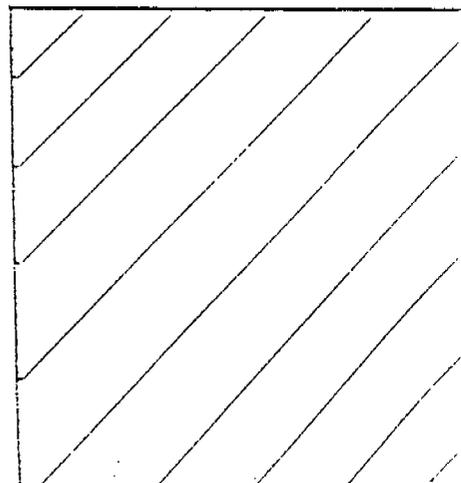
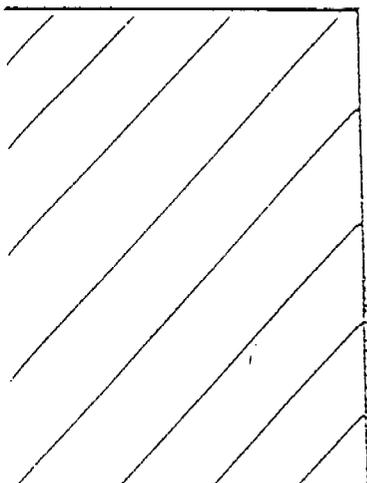
2000 PSI
WORKING PRESSURE

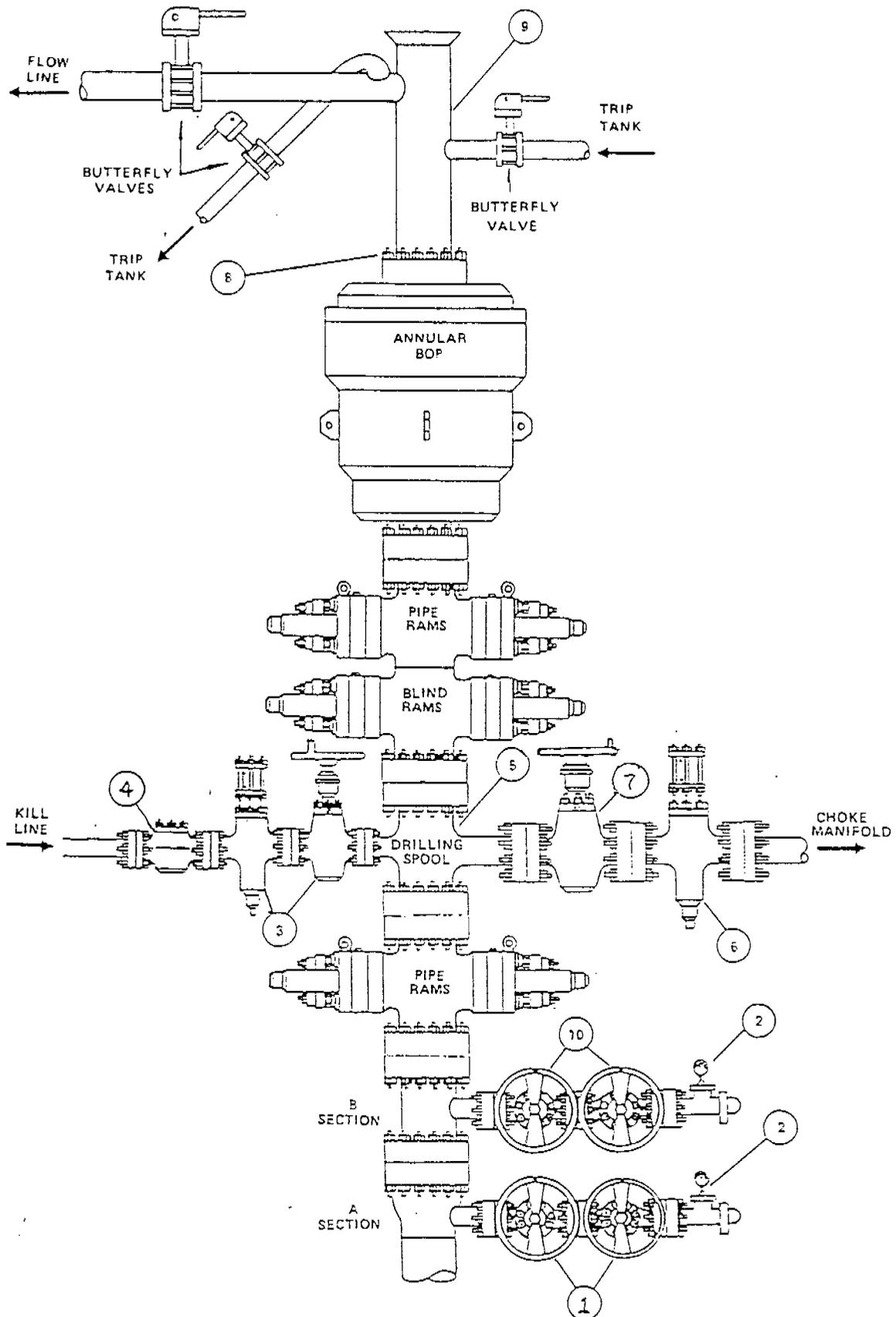
20"

ANNULAR

20" CASING HEAD
3000 PSI WP

20"
CASING





COMPONENT SPECIFICATIONS

1. Screwed or flanged plug or gate valves — 2" minimum nominal dia. — same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as BOP stack. Second valve up stream may be hydraulically controlled.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets — 3" choke and 2" kill line minimum nominal dia. (See Table II-4 and Note D.)
6. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack. (See Note D.)
7. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
9. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.
10. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as "B" section.

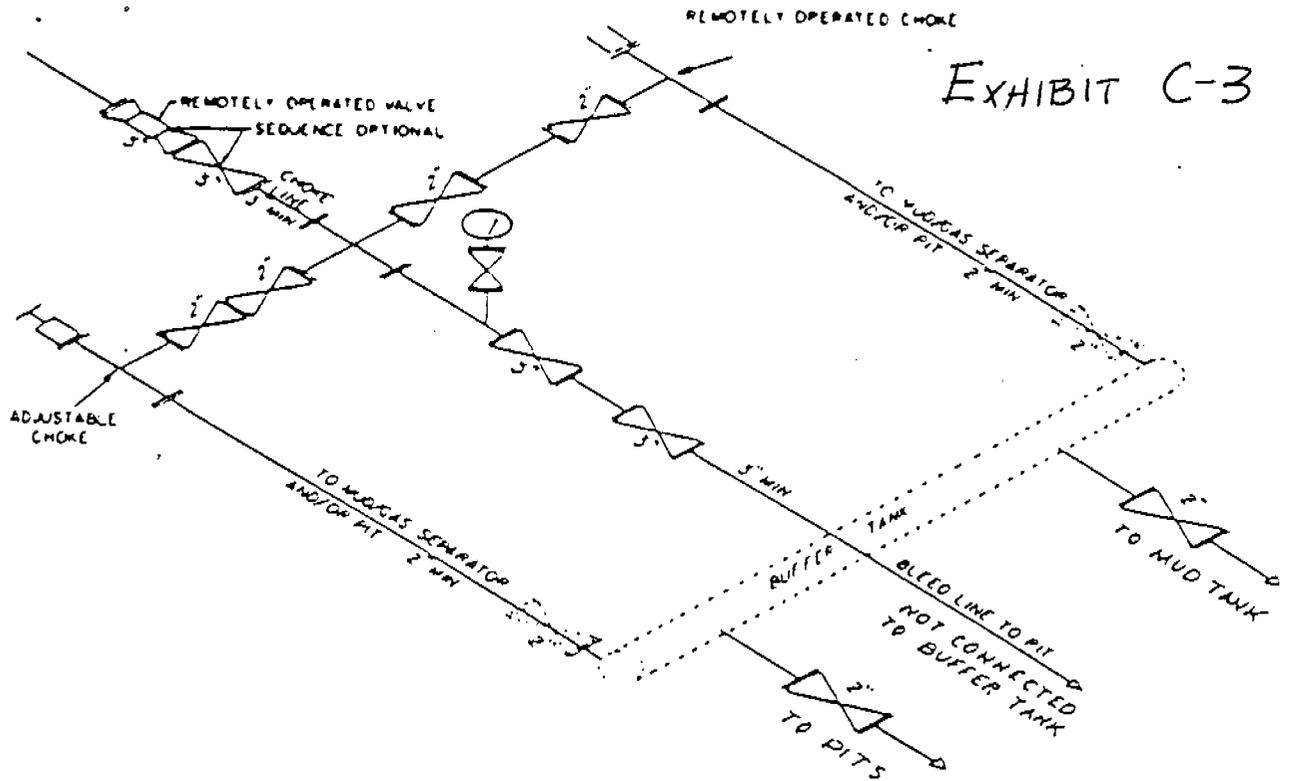
NOTE:

The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.

Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

CONFIDENTIAL

EXHIBIT C-3



5M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolded the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, or 15M drawings, it would also be applicable to those situations.

[FR Doc. 88-26736 Filed 11-17-88; 2:45 pm]
 BILLING CODE 4310-04-C

CONFIDENTIAL

A D D E N D U M

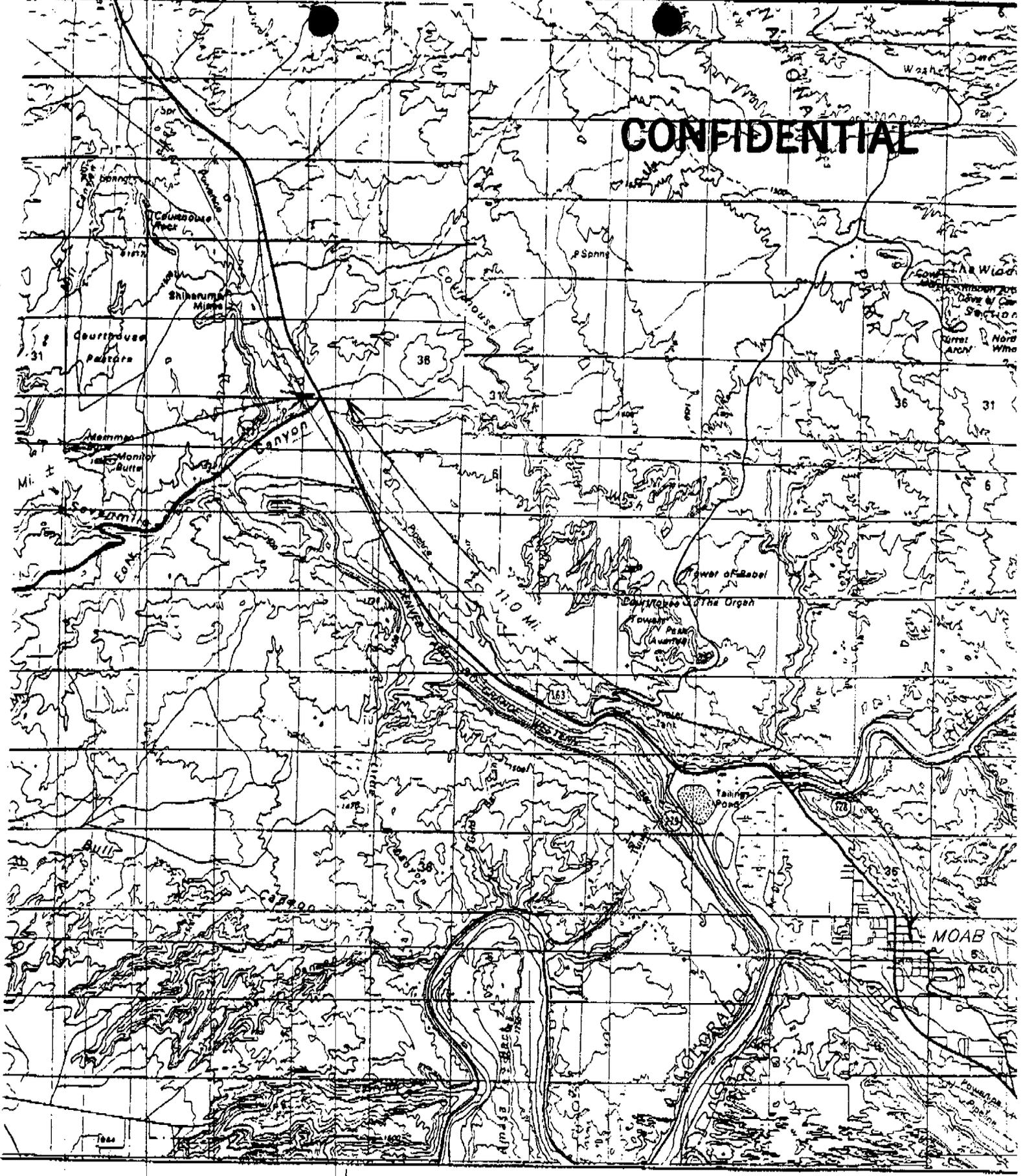
COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL #10-1
SEC.10-T25S-R18E S.L.B.& M
GRAND COUNTY, UTAH

DATE OF ONSITE: MAY 21, 1991

H. Pipeline Right-of-Way

- 1) A pipeline connection to the "Trunk Line" will be constructed alongside the same path as the access as indicated on attached map B.
- 2) The pipeline will be buried. The metering point will be on the production pad.
- 3) Length of pipeline will be approx. .9 of a mile.
- 4) Western Gas Company will construct the pipeline. The pipeline right-of-way will be assigned to Western upon issuance.

CONFIDENTIAL



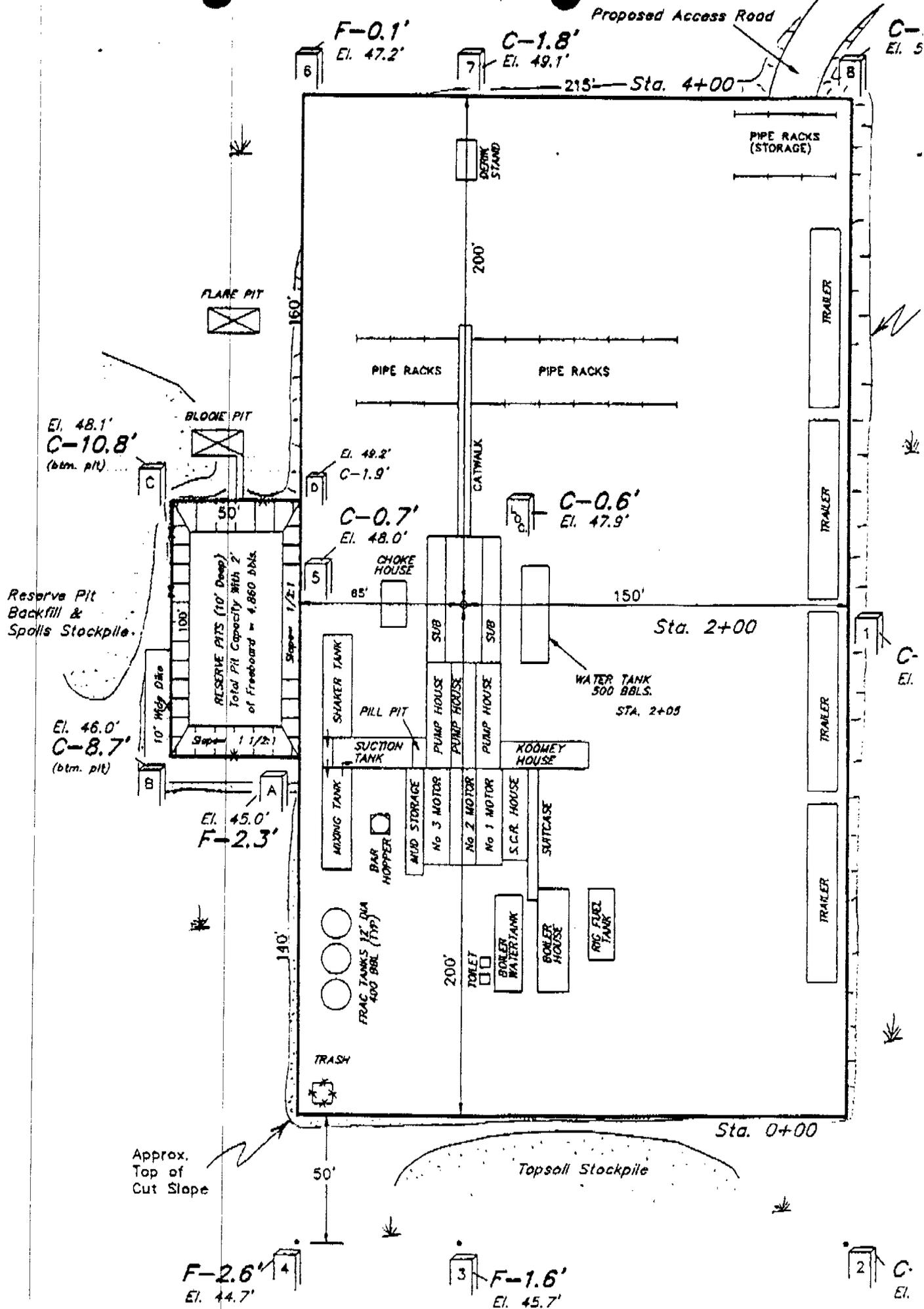
GRAPHIC
P "A"
-24-91 R.E.H.



COLUMBIA GAS DEVELOPMENT CORP.

KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.

CONFIDENTIAL



Approx. Top of Cut Slope

Topsall Stockpile

F-2.6' El. 44.7'

F-1.6' El. 45.7'

C-0.6' El. 47.9'

El. 48.1' C-10.8' (btm. pit)

Reserve Pit Backfill & Spills Stockpile.

El. 46.0' C-8.7' (btm. pit)

El. 45.0' F-2.3'

F-0.1' El. 47.2'

C-1.8' El. 49.1'

C-0.6' El. 5

El. 49.2' C-1.9'

C-0.7' El. 48.0'

C-0.6' El. 47.9'

Sta. 2+00

Sta. 0+00

WATER TANK 500 BBL. STA. 2+00

Proposed Access Road

215' Sta. 4+00

PIPE RACKS (STORAGE)

PIPE RACKS

PIPE RACKS

TRAILER

TRAILER

TRAILER

TRAILER

TRAILER

SHAKER TANK

PILL PIT

SUCTION TANK

MIXING TANK

BAR HOPPER

MUD STORAGE

No 3 MOTOR

No 2 MOTOR

No 1 MOTOR

S.C.R. HOUSE

SUITCASE

FRAC. TANKS 12' DIA 400 BBL (TYP)

TOILET

BOILER WATER TANK

BOILER HOUSE

MISC. FLUID TANK

SUB

SUB

PUMP HOUSE

PUMP HOUSE

PUMP HOUSE

CHOKE HOUSE

85'

150'

200'

CATWALK

160'

FLARE PIT

BLOOE PIT

50'

100'

Slope 1/2:1

Slope 1 1/2:1

10' High Dike

100'

10'

140'

50'

50'

50'

50'

50'

50'

50'

50'

50'

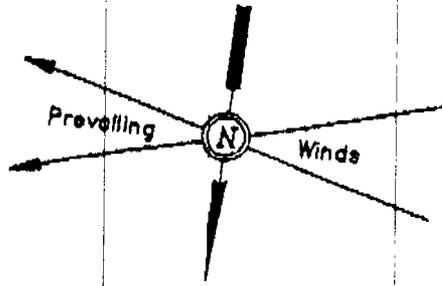
50'

50'

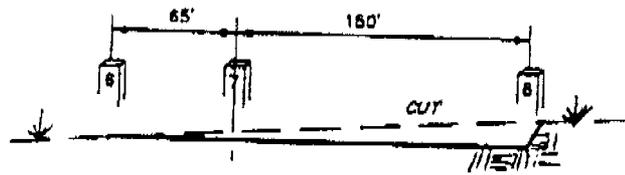
50'

COLUMBIA GAS DEVELOPMENT CORP.

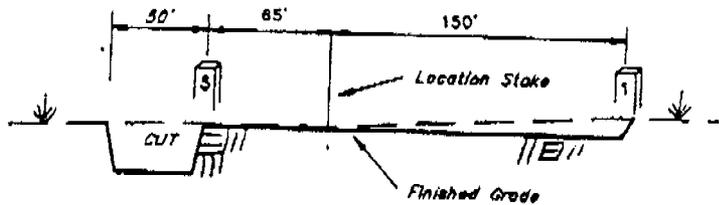
LOCATION LAYOUT FOR
KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.



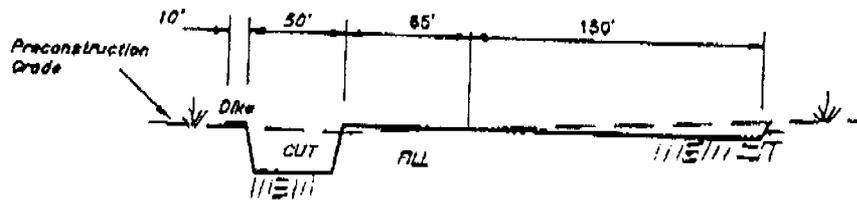
SCALE: 1" = 50'
DATE: 5-24-91
Drawn By: J.R.S.
REVISED: 6-18-91 R.E.H.



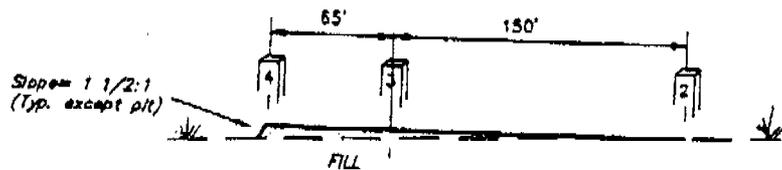
STA. 4+00



STA. 2+00



STA. 1+55



STA. 0+00

TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

CONFIDENTIAL

APPROXIMATE YARDAGES

CUT			
(6") Topsoil Stripping	=	1,680 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION
Remaining Location	=	6,620 Cu. Yds.	= 7,020 Cu. Yds.
TOTAL CUT	=	8,300 CU.YDS.	Topsoll & Pit Backfill (1/2 Pit Vol.)
FILL	=	1,220 CU.YDS.	= 2,310 Cu. Yds.
			EXCESS UNBALANCE (After Rehabilitation)
			= 4,710 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5247.9'

FINISHED GRADE ELEV. AT LOC. STAKE = 5247.3'

CONFIDENTIAL

OPERATOR Columbia Gas Develop N-5035 DATE 7-10-91

WELL NAME Kane Springs Federal #10-1

SEC NWSE 10 T 055 R 18E COUNTY Grand

43-019-31331
API NUMBER

Federal (U)
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other producing well in Sec 10-1 PA well from McRae Oil
Water Limit 01-1081 (TU5370)

Potash area

RDCC 7-11-A1

Kane Springs Plan of Development Change dated 6/6/92

APPROVAL LETTER:

SPACING:

R615-2-3

Kane Springs

UNIT

R649-3-2
R615-3-2

N/A
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

Potash area

CONFIDENTIAL
PERIOD
EXPIRED
ON 12-19-93



July 31, 1991

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT OFFICE
P. O. BOX 970
MOAB, UTAH 84532

Attention: Mr. Dale Manchester

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**
BOPE REVISION

Dear Mr. Manchester:

As per our conversation of 7/30/91, please find enclosed Sundry Notices regarding the change in the BOPE for all locations currently being permitted.

If you have any questions, or require any additional information, please contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Aline A. Reese".

Aline A. Reese
Regulatory Clerk

AAR
Encl.

cc: State of Utah Natural Resources Oil, Gas & Mining
Mr. R. J. Firth

A rectangular stamp with the word "RECEIVED" in a bold, outlined, sans-serif font, slanted slightly upwards to the right.

AUG 05 1991

DIVISION OF
OIL GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Kane Springs Fed. Unit

8. FARM OR LEASE NAME

Kane Springs Federal

9. WELL NO.

#10-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec.10-T25S-R18E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Columbia Gas Development Corporation

3. ADDRESS OF OPERATOR
P. O. Box 1350 Hou., TX. 77251-1350

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

500' FSL & 1000' FWL of Sec.10-T25S-R18E

14. PERMIT NO.

N/A

15. ELEVATIONS (Show whether DT, KT, GR, etc.)

Ground 5247

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PLUG OR ALTER CASING

MULTIPLE COMPLETE

ABANDON

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) BOPE Revision

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Notification of BOPE revision was given to Fred Oneyear on 7/18/91

The BOP equipment used will be 13-5/8" 10M# which is an upgrade from the previous equipment of 13-5/8" 5M# shown in the APD submitted.

Consequently the cross will not be used due to lack of sufficient height. Kill line & choke line will be nipped up to side outlets below blind rams and above lower pipe rams.

RECEIVED

AUG 05 1991

DIVISION OF OIL GAS & MINING

[Handwritten signature]

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

SIGNED

Aline A. Reese

TITLE

Regulatory Clerk

DATE

7/31/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

P. O. Drawer 1106 • Price, Utah 84501 • Telephone 637-5444

WILLIAM D. HOWELL
Executive Director

AREAWIDE CLEARINGHOUSE A-95 REVIEW

1404-07

NOI ___ Preapp ___ App ___ State Plan ___ State Action X Subdivision ___ (ASP # 7-711-6)

Other (indicate) _____ SAI Number UT910711-020

Applicant (Address, Phone Number):

Oil, Gas and Mining
355 West North Temple
3 Triad Center Suite 350
Salt Lake City, UT 84180-1203

Federal Funds:

Requested: _____

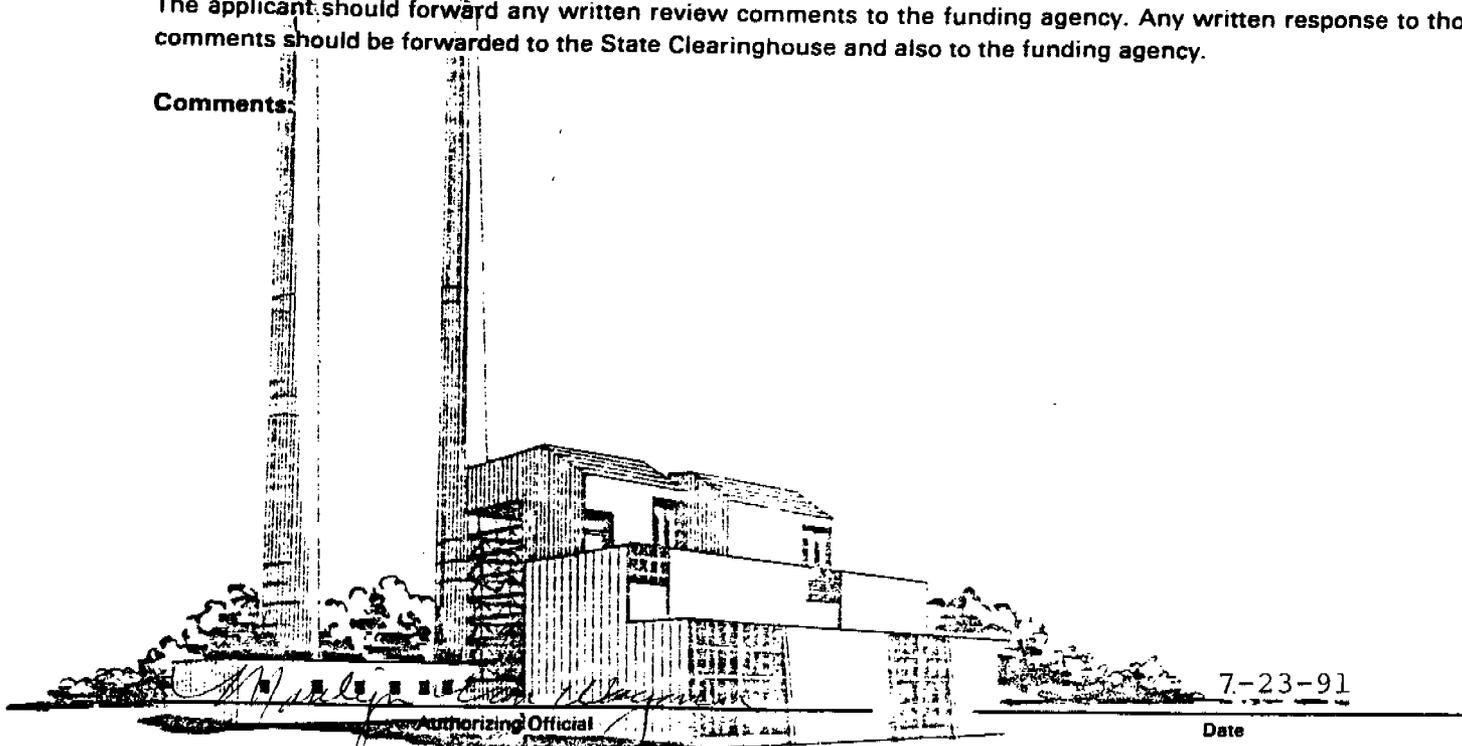
Title:

APPLICATION FOR PERMIT TO DRILL

- No comment
- See comments below
- No action taken because of insufficient information
- Please send your formal application to us for review. Your attendance is requested

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

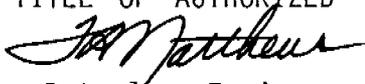


Authorizing Official

7-23-91
Date

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
3. APPROXIMATE DATE PROJECT WILL START:
September 20, 1991
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments
5. TYPE OF ACTION: Lease Permit License Land Acquisition
 Land Sale Land Exchange Other
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill
7. DESCRIPTION:
Columbia Gas Development Corporation proposes to drill the Kane Springs Federal #10-1 well (wildcat) on federal lease U-47858, Grand County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.
8. LAND AFFECTED (site location map required) (indicate county)
SW/4, SW/4, Section 10, Township 25 South, Range 18 East, Grand County, Utah
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
12. FOR FURTHER INFORMATION, CONTACT: Frank R. Matthews
PHONE: 538-5340
13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL

DATE: 7-11-91 Petroleum Engineer

WOI187



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF WILDLIFE RESOURCES

Norman H. Bangert
 Governor
 Dee C. Hansen
 Executive Director
 Timothy H. Provan
 Division Director

1596 West North Temple
 Salt Lake City, Utah 84116-3195
 801-538-4700
 801-538-4709 Fax

cc + 5000
 files as
 necessary
 Direct to
 R. F. [unclear]

RECEIVED

AUG 12 1991

DIVISION OF
 OIL GAS & MINING

August 5, 1991

Dr. Dianne Nielson, Director
 Utah Division of Oil, Gas and Mining
 355 West North Temple
 3 Triad Center, Suite 350
 Salt Lake City, Utah 84180-1203

U-47858
Columbia 10-1
 10-255-18E

Dear Dianne:

I am responding to a drilling permit request on federal leases U-58070 (RDCC item UT910711-030), U-47858 (RDCC item UT910711-020) and U-68232 (RDCC item UT910708-010). The Division of Wildlife Resources has some specific concerns with these projects and their potential impacts to wildlife and wildlife habitat.

Impacts will be associated with short and long-term activities generated by the company. Although the activities associated with just the wildcat well will most likely be for only 30 days, long-term impacts associated with increased access, increased road densities and petroleum products associated with these activities can result in long-term impacts. The species that could potentially be impacted include mule deer, bighorn sheep, reptilian species and birds, which include waterfowl, passerine birds and a variety of raptors.

The waste pits associated with the drilling operation may create a hazard for birds. Waste pits appear as inviting water holes and the petroleum products they contain are fatal for the birds. These pits should be covered by netting to prevent birds from becoming trapped. Causing the death of waterfowl or passerine birds would be a violation of the Migratory Bird Treaty Act. A peregrine falcon eyrie is located just off Dead Horse Point and we believe peregrines, golden eagles and prairie falcons are nesting and foraging in Labyrinth, Hell Roaring and Spring canyons. These birds likely use the project site areas to hunt. White-throated swift, mourning doves, western meadowlarks and other passerine birds are the peregrines' primary prey. Impacts that would reduce these populations will have an effect on the peregrines in this area. Prairie falcons will also prey on these birds as well as small mammals. Another impact to bird populations occurs when eggs are contaminated by petroleum products. A small amount of petroleum on an egg will cause the death of an embryo.

There are a variety of raptor species that may inhabit these sites. Besides the previously discussed impacts to peregrines, their

Dr. Dianne Nielson, Director
August 5, 1991
Page 2

habitat and their prey base, impacts to ground nesting raptors should be considered. The time period of critical concern includes April to the end of July. Site specific surveys should be conducted to determine the presence or absence of ground nesting raptors. If a nest is observed, the nest should be monitored to determine if it is active. The previous date guidelines may be modified depending on the presence or absence of nests and nest activities. These recommendations should also be considered when seismic surveys are conducted for these specific well sites.

Another point of concern is the source of water for these wells. If water is obtained by developing springs or depleting available surface water in the project vicinity, then this will impact the local wildlife species. If water is obtained from the Colorado River, the impacts to threatened and endangered Colorado River species must be considered.

Bighorn sheep use these mesa tops as migratory routes during the fall. These mesa top well locations and their associated facilities may create a disruption for the travel corridor. More information will be needed to evaluate the impact to bighorn sheep travel. We have suggested a one-half mile buffer zone from the rim as a means of mitigating potential impacts to the sheep.

Increasing oil and gas development in southeast Utah continues to concern us. Wildlife impacts associated with these activities can be extremely damaging to many species. Of primary concern are the cumulative impacts these activities will have on wildlife habitat and wildlife directly. As this field is developed, cumulative impacts will become more acute.

We appreciate the opportunity to provide comments. Your personnel should direct any response you have to our concerns to:

Ken Phippen, Habitat Manager
Southeastern Region
455 W. Railroad Avenue
Price, UT 84501
Phone: 637-3310

Sincerely,


Timothy H. Provan
Director



August 27, 1991

RECEIVED

AUG 30 1991

**DIVISION OF
OIL GAS & MINING**

BUREAU OF LAND MANAGEMENT
GRAND RESOURCE AREA OFFICE
P. O. BOX M
MOAB, UTAH 84532

Attention: Mr. Elmer Duncan

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION
KANE SPRINGS FEDERAL #10-1
SEC.10-T25S-R18E
GRAND COUNTY, UTAH**

Dear Mr. Duncan:

As per your conversation with Mr. R. J. Pier this morning, I have enclosed an original and two duplicates of Columbia's Sundry Notice revising the directions to the above referenced location found in the Thirteen Point Surface Use Plan recently submitted.

If you have any questions, or require any additional information, please do not hesitate to contact me at 713/871-3482.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

Aline A. Reese
Aline A. Reese
Regulatory Clerk

*First
Location*

AAR
Encl.

cc: State of Utah Natural Resources Oil, Gas & Mining
Mr. R. J. Firth

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Columbia Gas Development Corporation 713/871-3400		7. UNIT AGREEMENT NAME Kane Springs Federal Unit	
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		8. FARM OR LEASE NAME Kane Springs Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 500' FSL & 1000' FWL of Sec. 10-T25S-R18E		9. WELL NO. #10-1	
14. PERMIT NO. N/A		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. ELEVATIONS (Show whether DF, RT, CR, etc.) Ground 5247		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 10-T25S-R18E	
		12. COUNTY OR PARISH Grand	13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FILL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	BROODING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <u>Revision to 13-point program</u>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report add Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The following are revised directions to the above captioned location to replace the existing directions in the Thirteen Point Surface Use Plane:

1. EXISTING ROADS

B. From Moab Utah:

Travel North on 191 for approx. 11 miles - Turn left onto DIVISION OF Hwy 313 & travel approx. 8.1 miles - Turn right and travel GAS & MINING approx. 7.9 miles - Turn right & travel approx. .8 of a mile - Turn right and travel approx. 250 ft. to location.



AUG 30 1991

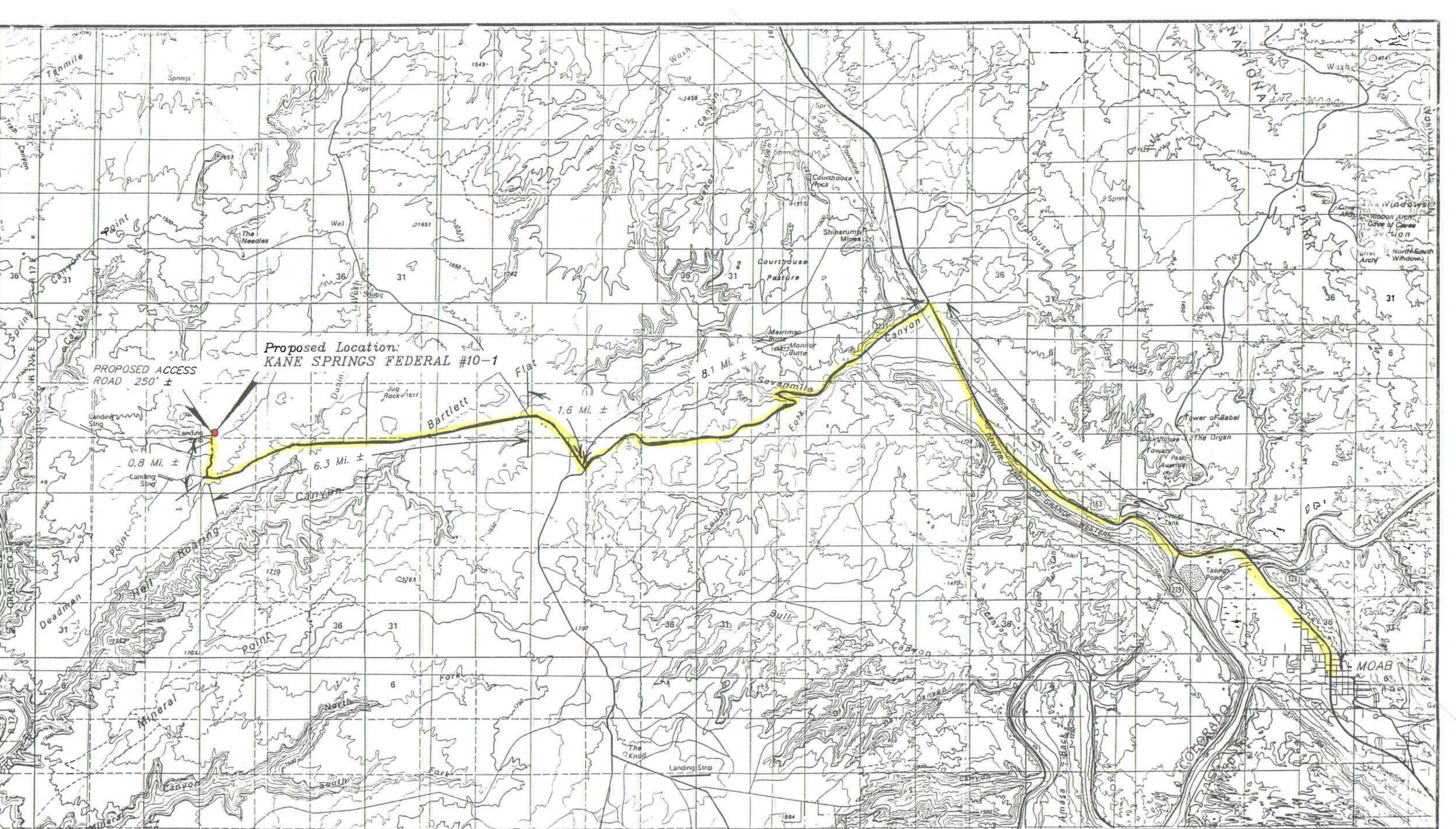
18. I hereby certify that the foregoing is true and correct:

SIGNED Aline A. Reese - TITLE Regulatory Clerk DATE 8/27/91

(This space for Federal or State office use)

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

*See Instructions on Reverse Side



Proposed Location:
KANE SPRINGS FEDERAL #10-1

PROPOSED ACCESS
ROAD 250' ±

0.8 Mi. ±

6.3 Mi. ±

1.6 Mi. ±

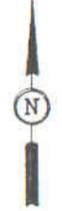
8.1 Mi. ±

11.0 Mi. ±

MOAB

TOPOGRAPHIC
MAP "A"

DATE: 5-24-91 R.E.H.



COLUMBIA GAS DEVELOPMENT CORP.

KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.

3162 (U-065)
(U-47858)

Moab District
P.O. Box 970
Moab, Utah 84532

MAY 22 1992

Columbia Gas Development Corporation
P.O. Box 1350
Houston, Texas 77251-1350

Re: Notice of Staking
Well No. Kane Springs Federal 10-1
NWSE Sec. 10, T. 25 S., R. 18 E.
Grand County, Utah
Lease U-47858

Gentlemen:

The above referenced Notice of Staking (NOS) indicating the new proposed location for the Kane Springs Federal 10-1 well was received May 19, 1992. It is our determination that the proposed change in location will require a new 30-day posting period and a new Application for Permit to Drill (APD), but will not cause an adjustment in position on the list of wells to be drilled within the Paradox/Cane Creek play.

In view of the foregoing, we are returning the original NOS and APD previously submitted for this well. We anticipate receiving a new APD within 45 days of the onsite inspection for the new 10-1 location.

If you have any questions, please contact the Branch of Fluid Minerals at (801) 259-6111.

Sincerely yours,

/S/ WILLIAM C. STRINGER

Assistant District Manager
Mineral Resources

Enclosures (2):
1-Notice of Staking
2-Application for Permit to Drill

cc: Grand Resource Area (w/o encl.)
State of Utah, Division of Oil, Gas and Mining (w/o encl.)

MRamstetter:mr:5/20/92

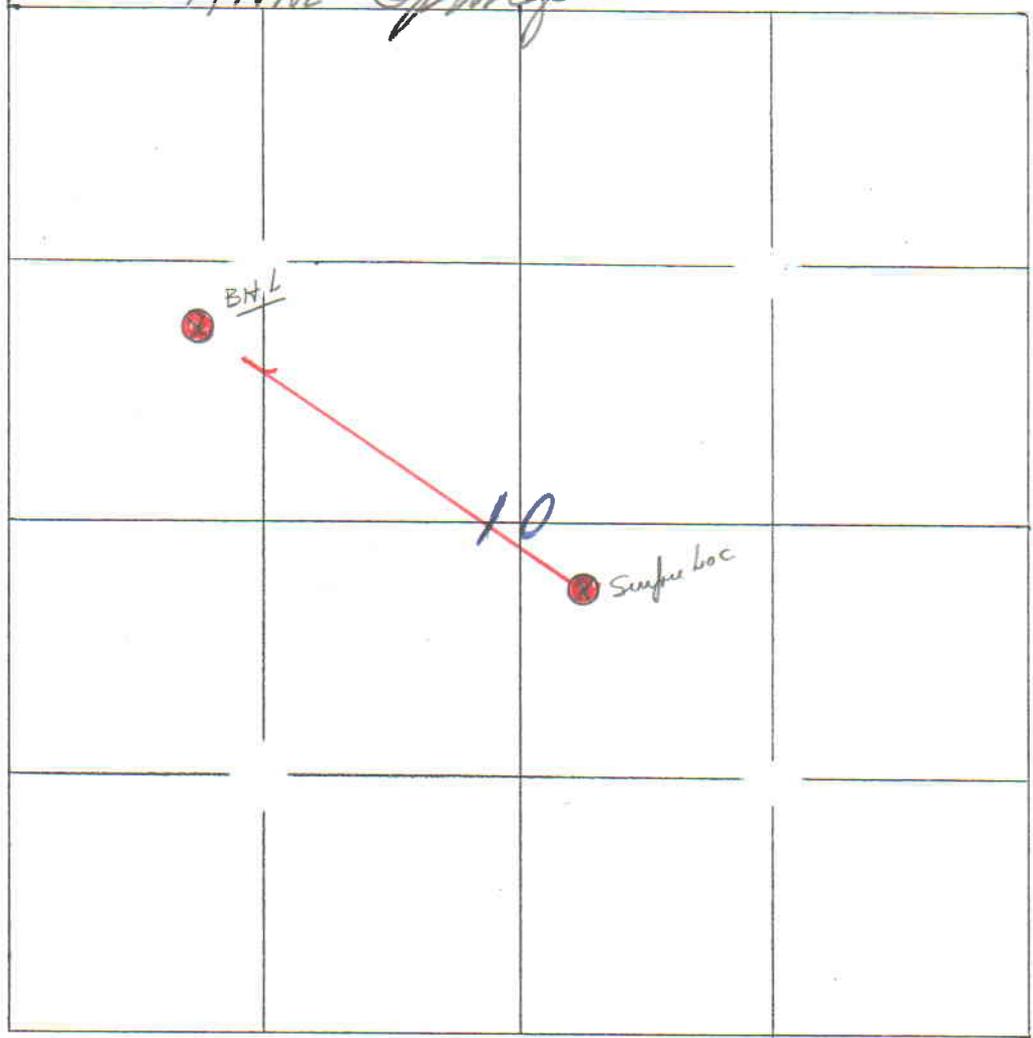
RECEIVED

MAY 26 1992

**DIVISION OF
OIL GAS & MINING**

KANE Springs Feb 10-1

R18E



T25S



VIA AIRBORNE EXPRESS

June 9, 1992

RECEIVED

JUN 10 1992

Bureau of Land Management
Grand Resource Office
Attn: Elmer Duncan
88 S. Sand Flats Road
Moab, UT 84532

DIVISION OF
OIL GAS & MINING

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Columbia Gas Development respectfully submits an amended Application for Permit to Drill for the above referenced well reflecting the change in surface and bottomhole locations.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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
 Columbia Gas Development Corporation

3. ADDRESS OF OPERATOR
 P.O. Box 1350, Houston, TX 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 2333' FSL & 2112' FEL
 At proposed prod. zone BHL: 1088' FWL & 1467' FNL *NW 1/4 SE 1/4*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 20 air miles WNW of Moab, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINK, FT. (Also to nearest drig. unit lide, if any)
 2112'

16. NO. OF ACRES IN LEASE
 1280

17. NO. OF ACRES ASSIGNED TO THIS WELL
 640

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

19. PROPOSED DEPTH
 8020TVD/10,400MD

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GL: 5272.4'

22. APPROX. DATE WORK WILL START*
 Sept. 15, 1992

5. LEASE DESIGNATION AND SERIAL NO.
 UTU-47858

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

7. UNIT AGREEMENT NAME
 Kane Springs Federal Ut

8. FARM OR LEASE NAME
 Kane Springs Federal

9. WELL NO.
 #10-1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec.10-T25S-R18E

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	94#	805'	1335 sx to Surface
17-1/2"	13-3/8"	61#	4730'	680 sx to 3730'
12-1/4"	9-5/8"	53#	8130'	1610. sx to 4500'
8-1/2"	5-1/2"	20#	8080-9720'	(production line)

RECEIVED

See attached for additional supplemental info:

JUN 10 1992

- 1) Eight Point Drilling Program
- 2) Multi-Point Surface Use Plan
- 3) BOPE Diagram
- 4) Certified surveyor's plat, cut & fill sheet, & Area Topog.
- 5) Letter of Certification

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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 Wendy G. DeCromey TITLE Regulatory Coordinator DATE 6/9/92

(This space for Federal or State office use)

PERMIT NO. 13-019-31331 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE: 6-19-92

CONDITIONS OF APPROVAL, IF ANY:

ALL SPACING: 649-2-3

*See Instructions On Reverse Side

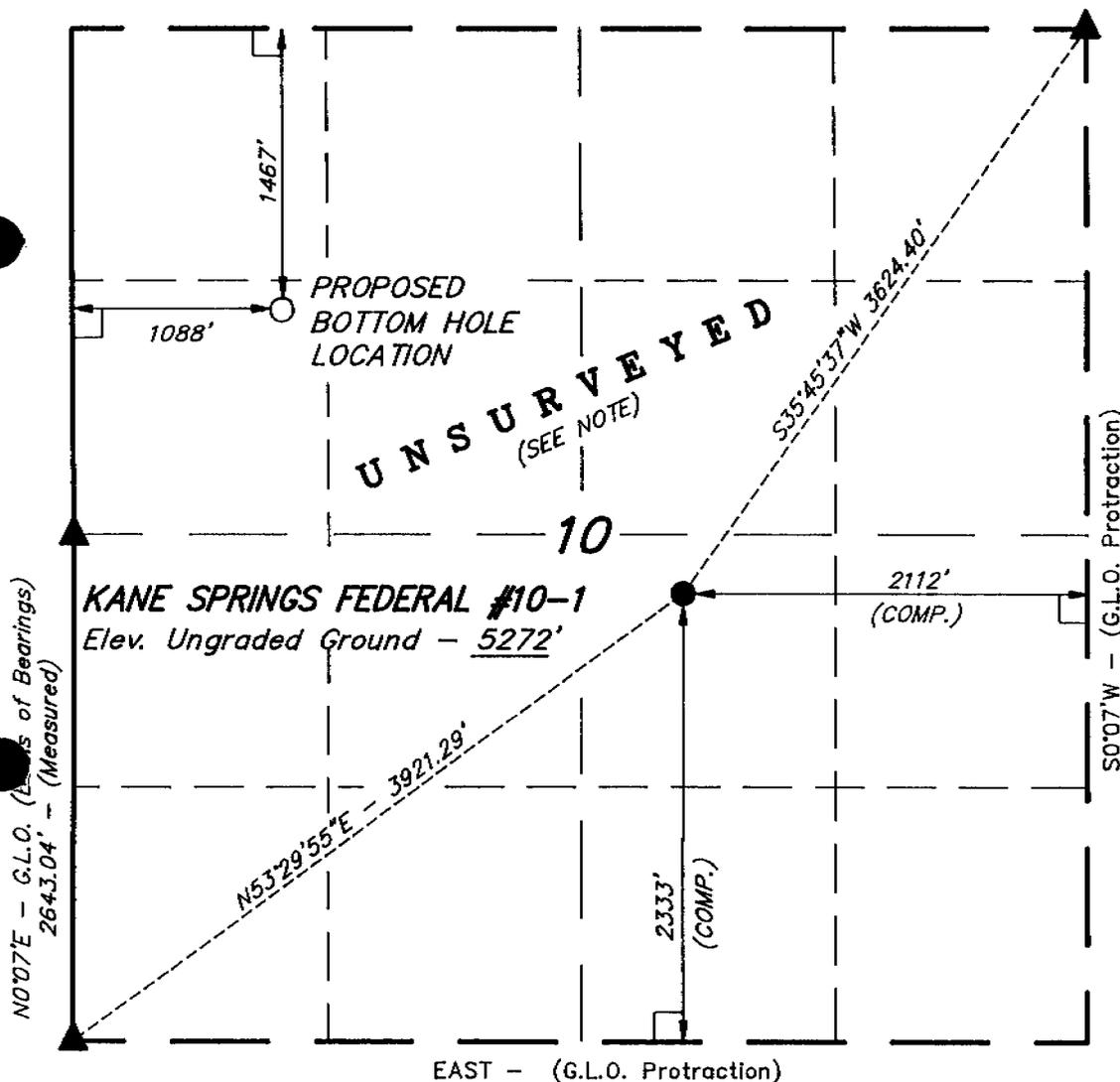
T25S, R18E, S.L.B.&M.

COLUMBIA GAS DEVELOPMENT CORP.

Well location, KANE SPRINGS FEDERAL #10-1, located as shown in the NW 1/4 SE 1/4 of Section 10, T25S, R18E, S.L.B.&M. Grand County, Utah.

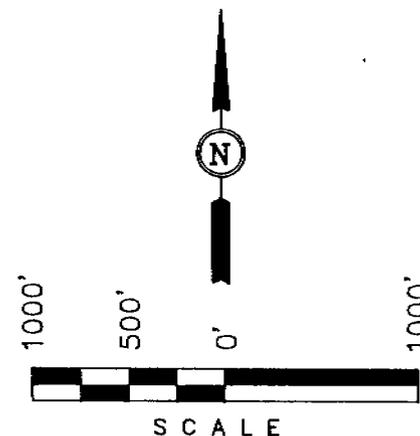
BASIS OF ELEVATION

THE WHITE TRIANGULATION STATION LOCATED IN THE SE 1/4 OF SECTION 9, T25S, R18E, S.L.B.&M. TAKEN FROM THE DUBINKY WASH QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5484 FEET.



NOTE:

THIS SECTION IS UNSURVEYED EXCEPTING ITS WEST LINE AND ITS NORTHEAST CORNER. BEARING INFORMATION ON THE SOUTH SECTION LINE IS TAKEN FROM THE G.L.O. PROTRACTION DIAGRAM OF THIS TOWNSHIP, AND THE WELL FOOTAGES WERE COMPUTED ACCORDINGLY.



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.

Robert L. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 5709
 STATE OF UTAH

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

LONGITUDE = 109°55'06"
 LATITUDE = 38°38'37"

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH - 200 EAST, VERNAL, UTAH - 84078
 (801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED 5-26-92	DATE DRAWN 5-28-92
PARTY D.A. D.S. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE COLUMBIA GAS DEV. CORP.	

CONFIDENTIAL

EIGHT-POINT DRILLING PROGRAM

COMPANY: COLUMBIA GAS DEVELOPMENT CORPORATION
WELL NAME: KANE SPRINGS FEDERAL 10-1
LOCATION: 2333' FSL & 2112' FEL
Section 10-T25S-R18E
ONSITE INSPECTION DATE: May 27, 1992

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulation (43 CFR 3100), Onshore Oil & Gas Order No.1, and the approved plan of operations. A copy of these conditions will be furnished to the field representative to insure compliance.

A. DRILLING PROGRAM

1. Estimated Geologic Markers

Formation Tops	Depth	Subsea	RKB = 26
Kayenta	Surface	+5247	
Wingate	418	+4855	
Chinle	753	+4520	
Cutler	1593	+3680	
Hermosa	2853	+2420	
Paradox Salt	4633	+ 640	
Cane Creek	7973	-2700	

2. Estimated Depths of Anticipated Water, Oil, Gas or Other Minerals

Formation Tops	Depth	Subsea	Remarks
Wingate	481	+4855	Fresh Water
Cane Creek	7973	-2700	Oil

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected.

3. Operator's Minimum Specification for Pressure Control Equipment

The Moab BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing of BOPE.

A rotating head and blooey line will be rigged up on the conductor and surface pipe. (See Exhibit C-1)

One (1) annular bag-type preventer will be utilized while drilling the surface hole.

One (1) bag-type and three (3) ram-type preventers will be utilized while drilling below the surface pipe. Ram preventers are to be tested to seventy percent (70%) of working pressure, or seventy percent (70%) of burst rating of intermediate pipe, whichever is less. Annular preventer is to be tested to fifty percent (50%) of working pressure. (See Exhibit C-2)

Choke Manifold will meet or exceed the requirements of the typical 5M manifold as in Onshore Order #2. (See Exhibit C-3)

All BOPE and testing procedures will be consistent with API RP-53 and will be conducted before drilling out casing shoe. Preventers will be inspected and operated at least once daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report.

4. Casing Program and Auxiliary Equipment

The Moab BLM Office shall be notified, with sufficient lead time, in order to have a BLM representative on location to witness the running and cementing of all casing strings.

Surface pipe:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
0-805'	20"	94	H40	STC	1530/6.9	520/1.8

TENSION/SF
1077M#/1.5

Set 50' into the Chinle. Cemented to Surface with 1335 sx Class B.

Intermediate Pipe:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
0-4730'	13-3/8	61	K55	STC	3090/1.14	1540/1.55

TENSION/SF
633M/2.19

Cemented with 265 sx lightweight plus 415 sx Class B, with estimated top of cement at 3730'. Pressure test to 2160 psi before drilling out shoe.

Collapse design based on .22 psi/ft gradient. Burst design based on shoe test of 13.5 ppg less .1 psi/ft gas gradient.

Production Pipe:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
0-8130'	9-5/8	53	S95	LTC	9410/1.92	8850/1.11

TENSION/SF
1235M/3.46

Set 5' TVD into top of Cane Creek formation.

Cement w/1610 sx Class G, with estimated top of cement at 4500'. Pressure test to 5000 psi before drilling out shoe.

Collapse design based on 1.0 psi/ft overburden gradient. Burst based on max. mud weight in offset wells (17.0 ppg) less .22 psi/ft oil gradient.

Production Liner:

INTERVAL	SIZE	WT	GR	CONN	BURST/SF	COL/SF
8080-9720'	5-1/2	20	S95	BTC	10680/NA	10680/1.51

TENSION/SF
554M/22.6

Bottom 1590' to be pre-drilled with 3/4" holes, 3' apart at 90 deg. phase.

An isolation packer will be run on top of the liner.

Collapse design based on max. mud wt in offset wells (17.0 ppg).

Auxilliary Equipment:

- A. A Kelly cock will be kept in the string at all times.
- B. A stabbing valve will be kept on the derrick floor at all times.
- C. A float will not be used, other than when air drilling.

5. Proposed Mud Program

No chromates will be used in the well.

DEPTH	MUD WT	VIS	PV	YP	WL	TYPE MUD
0-805'	---	---	---	-	--	Air/Mist
805-4730'	---	---	---	--	--	Air/Mist
4730-7950'TVD	9.6	42-46	18	21	<10	Oil Base
7950-7984'TVD	9.6-12.5	42-46	18	21	<10	Oil Base
7984-7998'TVD	16.5	54-57	35	21	<4	Oil Base

6. Coring, Logging & Testing Program

During the logging and testing of the well, a verical seismic profile survey will be completed using truck mounted vibroseis equipment.

- A. Drill Stem Tests: None planned.
- B. Well Logging & Intervals:

LOG
Induction/Sonic/GR
MWD-Induction/GR will be attempted in the horizontal section (7574-9720' MD, 7998' TVD).

INTERVAL
4730-7574'TVD

- C. Cores: A 30' oriented core will be attempted in Cane Creek formation.
- D. Directional Surveys: This well as proposed will be drilled vertically to 7574' and then drilled as a medium radius hotizontal well in the direction of N 3° E for a total dispolacement of 1903'. Inclination test will be taken at 500' and at 1000' maximum intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum

intervals. During the horizontal portion of the hole, surveys will be taken at 200' maximum intervals.

- E. Samples: Samples will be taken at 10' intervals from 4730' to TD.
- F. There will be a mud logger on location from 4730' (below intermediate pipe) to TD.
- G. Completion Procedure: To be submitted on Form 5 under "Approval of Subsequent Operations."

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations will be filed with Form 3160-4.

7. Anticipated Abnormal Pressures, Temperatures or Potential Hazards

Abnormal pressure is anticipated in the Cane Creek formation. The proposed casing program and pressure control equipment has been designed based on the anticipated abnormal pressures of the Cane Creek formation.

Hydrogen Sulfide is not anticipated.

8. Notification of Operations & Other Information

- A. Construction of Location will begin in the 3rd Quarter of 1992.
- B. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from well to be placed in a suspended status without prior approval of the AO.
- C. Spud date will be in the 3rd Quarter of 1992. The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or a holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

D. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revisions.

E. If replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Notification will be made no later than five (5) days following the date on which the well is placed on production.

Venting/Flaring of gas during initial well evaluation tests will not exceed a period of thirty days or the production of 50 MMCF of gas, whichever occurs first. An application will be filed with the District Engineer and approval received, for any Venting or Flaring beyond the initial 30 day authorized test period.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" will be filed with the AO within 30 days following completion of the well for abandonment operations.

There will be no deviation from the proposed drilling and/or workover program without prior approval of the AO. Safe drilling and operating practices will be observed.

This well, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

COMPANY : Columbia Gas Development Corporation
WELL NAME & NUMBER: Kane Springs Federal #10-1
LEASE NO.: USA 47858
LOCATION: 2333' FSL & 2112' FEL
 Sec.10-T25S-R18E
SURFACE OWNERSHIP: Bureau of Land Management

CONFIDENTIAL

NOTIFICATION REQUIREMENTS

Notify Elmer Duncan of the Grand Resource Area, at (801)259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to running and cementing surface casing;

1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801)259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Minerals Division. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed.

Dale Manchester, Petroleum Engineer Office: (801)259-6111
Home: (801)259-6239

Eric Jones, Petroleum Engineer Office: (801)259-6111
Home: (801)259-2214

If unable to reach the above individuals including weekends, holidays or after hours please call the following:

Lynn Jackson,
Chief, Branch of Fluid Minerals Office: (801)259-6111
Home: (801)259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS

ONSITE DATE: 5/27/92

THIRTEEN POINT SURFACE USE PROGRAM

MULTIPOINT REQUIREMENTS TO ACCOMPANY APD

1. EXISTING ROADS

A. Existing road and location in relation to location submitted on Exhibit "A".

B. From Moab, Utah:

Travel North on 191 for approx. 11 miles. Turn left onto Highway 313 & travel approx. 8.1 miles. Turn right on Dubinky Well Road and go 1.6 miles. Veer left at "Y" onto Spring Canyon Road. (Both the Dubinky Well Road and Spring Canyon Road are county roads.) Continue 6.3 miles on Spring Canyon Road. Turn right onto old access road to McRae Federal #1. Continue 1.3 miles. Turn right .3 miles to location.

C. Description of roads in area: All weather asphalt & two wheel jeep roads.

2. PLANNED ACCESS ROADS

A. Length: 1.3 miles of existing dirt road which will be upgraded, and approx. 0.3 miles of proposed new access.

B. Width: For drilling operations, maximum total width of upgraded dirt road and new access road will be 35 feet (will include travel surface, spoil, and ditches).

For production operations, roads will be upgraded as specified in the BLM's Surface Operating standards for Oil and Gas Exploration and Development Operations.

C. Maximum Grades: At grade.

D. Turnouts: None

E. Drainage Design: For drilling operations, flat blading of of native material. For production operations, surface will be upgraded to sixteen foot wide travel surface, crowned, with ditches (as per BLM's Surface Operating Standards for Oil and Gas Exploration and Development) and continuously maintained. Culverts will be installed at all drainages where needed.

F. Location and size of culverts and/or bridges, and brief description of any major cuts and fills: None

G. Surface Material Source: For drilling operations, native materials. For production operations, as per BLM's Surface Operating Standards for Oil and Gas Exploration and Development.

H. Necessary gates, cattleguards, or fence cuts and/or modification to existing facilities: None

All travel will be confined to existing access road.

I. Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to the construction of access road, and drill pad.

Access and location under the jurisdiction of the Bureau of Land Management.

J. Columbia Gas Development Corporation will provide Dirt Contractor with necessary maps, pad and road construction plans.

3. LOCATION OF EXISTING WELL

Within a one mile radius of this proposed well there is one well.

McRae Federal #1 - Dry Hole

Within a one mile radius of this proposed well there are no known:

Water wells, abandoned wells, disposal wells, injection wells, monitoring wells or drilling wells.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

Notification will be given to the Bureau of Land Management, District Office, with sufficient lead time, prior to construction of production facilities.

- A. If well is productive, new on-well pad facilities and lines will be submitted as "as built" under the following guidelines:
1. Tank battery and/or location will be surrounded by a dike of sufficient capacity to contain the contents of the largest vessel within the dike plus one day's production.
 2. Facilities will be placed in cut as much as possible.
 3. All internal combustion engines associated with production facilities will be equipped with noise reducing mufflers.
 4. All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat non-reflective, earthtone color to match one of the standard environmental colors as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with O.S.H.A. will be excluded.
 5. Fire prevention and suppression requirements for operations on Federal lands will be followed as per Bureau of Land Management guidelines.
 6. No permanent above ground pipelines will be installed between the wellhead and treater or between the treater and flare pit.
 7. All spills (production water or oil) or pipeline breaks outside the diked area will be reported within the 24 hours to the District office.

5. LOCATION AND TYPE OF WATER SUPPLY

The necessary permits will be obtained by the operator from the appropriate State Water Rights Division office for the use of water at the drillsite.

Fresh water & salt water will be trucked by a local trucking company.

6. SOURCE OF CONSTRUCTION MATERIALS

No construction materials will be used other than native materials. Soil from cuts will be used in fills. Firewalls and tank grade bands will have gravel.

7. METHODS FOR HANDLING WASTE DISPOSAL

A. Methods and location of proposed safe containment and disposal of each type of waste material:

1. Drill cuttings will be deposited in either the blooey pit or the reserve pit. Cuttings from air drilling will be deposited into the blooey pit. After switching to the mud system, cuttings will be deposited into the reserve pit.
2. Drilling fluids will be confined to mud tanks and reserve pit if necessary. At rig release, mud will be returned to supplier for storage.
3. Produced Water: While testing the well, all produced water will be contained in a storage tank. If well is a producer, a saltwater storage tank will be installed with tank battery.
4. Sewage will be disposed of according to county and state requirements in a portable chemical toilet or in a hole at least 15 deep excavated in the cut portion of the well pad.
5. Portable dumpsters will be used for all trash. All trash will be hauled offsite.

B. The Reserve pit shall be constructed so as not to leak, break, or allow discharge. The Reserve pit will be inspected by BLM personnel after construction. If it is determined to be necessary, the pit will be lined. The type of liner will be determined at the on-site inspection.

C. After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the ninety day period, in accordance with NTL-2B, an application for approval of permanent disposal method and location, along with required water analysis, shall be submitted for the authorized officer's approval.

8. ANCILLARY FACILITIES

No camp, airstrip or other facility will be built during the drilling of this well. Up to five trailers will be on location as temporary quarters for rig personnel during drilling operations only.

9. WELL SITE LAYOUT

A. See attachment for the Well Site Layout showing the following: Substructure, Engine, Mud pumps, Mud tanks, Diesel tank, Water Tank, Boiler, Light plant, Dog house, Bunk house, Pipe racks, Catwalk, Choke manifold, Accumulator, Derrick stand, Wireline, Mud mixer, Change house, Trailers, Trash bin, parts house, Mud manifold, Mud storage, Desander/Desilter, Winterizing or parts tub.

Also attached is a cross section diagram showing cuts & fills in relation to existing topography.

The location will be constructed large enough to accommodate the drilling rig and associated equipment with allowance made for future completion and production equipment.

No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below stripping depth.

- B. Fencing requirements - All pits will be fenced according to the following minimum standards:
1. 30-inch net wire shall be used with at least one strand of barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
 2. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of fence shall be 42-inches.
 3. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
 4. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.

5. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

10. PLANS FOR RESTORATION OF SURFACE

A. Production location

1. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.
2. Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with 43 CFR 3162.7-1
3. The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed as soon as feasible upon cessation of use. Before any dirt work takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc., will be removed.
4. Seed mixtures to be used in rehabilitation will be provided by the BLM District Office. Seed mixtures will be certified weed free and seeding will be accomplished during the spring or fall. Seed tags will be submitted to the area manager within 30 days of seeding.
5. Topsoil stockpiles will be seeded if well is productive. Seeding will be performed at time of reserve pit closure.
6. Site rehabilitation will be completed within six (6) months, weather permitting. Before any production facilities are constructed, a site reclamation plan will be submitted to the District Office for all areas not required for production facilities.

B. Dry Hole/Abandoned Location

1. At such time as well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the BLM will attach the appropriate surface rehabilitation conditions of approval.
2. The location will be rehabilitated within six (6) months, weather permitting, from the date the well is plugged.

11. SURFACE OWNERSHIP

Surface location and access roads are owned by the United States of American under jurisdiction of the Bureau of Land Management.

12. OTHER INFORMATION

- A. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archeological sites, or for collecting artifacts. If historic or archeological materials are uncovered during construction, the operator will immediately stop work that further disturb such materials, and contact the authorized officer. Columbia Gas Development Corporation will comply with the requirements set forth by the BLM Surface Use Stipulations.
- B. Columbia Gas Development Corporation has a One Hundred and Fifty Thousand (150,000) dollar Nationwide Bond - copy attached.
- C. Drilling rigs and/or equipment used during drilling operations on this wellsite will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.
- D. There will be no deviation from the proposed drilling program without prior approval from the District.

E. Sundry Notice & Report on wells (Form 3160-5) will be filed for approval of all changes of plans and other operations in accordance with 43 CFR 3164.

F. Dirt Contractor will be provided with an approved copy of the Surface Use plan.

G. Environmental Impacts.

1. Setting is approximately 20 air miles west of Moab, Utah.
2. Surface disturbance will be approximately 2.1 acres during the drilling phase and approximately 2.0 acres in the completion/production phase. The affected area has an estimated vegetation coverage of 5-10%. The topsoil will be replaced during abandonment procedures and reseeded. Surface impact will be temporary with no residual impacts. The surface area was moved as a result of the onsite meeting to reduce the amount of surface disturbance.
3. Visual impacts will be limited to the drilling phase. The top section of the derrick will be visible from Hwy 313 for approx. 50 days.
4. Audible impacts will be the greatest during the drilling and completion phases. Engine noise will be noticeable up to 3/4 mile during the drilling operations (estimated 50 days) and a 1/4 mile during the completion operations (estimated 10 days).
5. Particulate impacts will be temporary and local if dry soil conditions exist during construction and heavy traffic periods. Fugitive dust will be controlled by watering the road as necessary during pad construction and periods of heavy traffic.
6. Recreational impacts are anticipated to be minimal. There will be approximately 44 truckloads of equipment to move the drilling rig in and the same number to move the rig out. Anticipated increased traffic other than moving the rig is 10-15 more vehicles per day during the drilling phase and 5-10 more vehicles per day during the completion phase. Increased traffic in the pro-

duction phase will be one auto per day and three truckloads until a pipeline is installed. Other than some minimal increased traffic, recreational impacts would be limited to the occasional hiker or biker.

13. LESSEE'S OR OPERATOR REPRESENTATIVE AND CERTIFICATION

Columbia Gas Development Corporation
P. O. Box 1350
Houston, Texas 77251-1350
713/871-3400

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Columbia Gas Development Corporation and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM Bond # U-391050-16RR.

This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

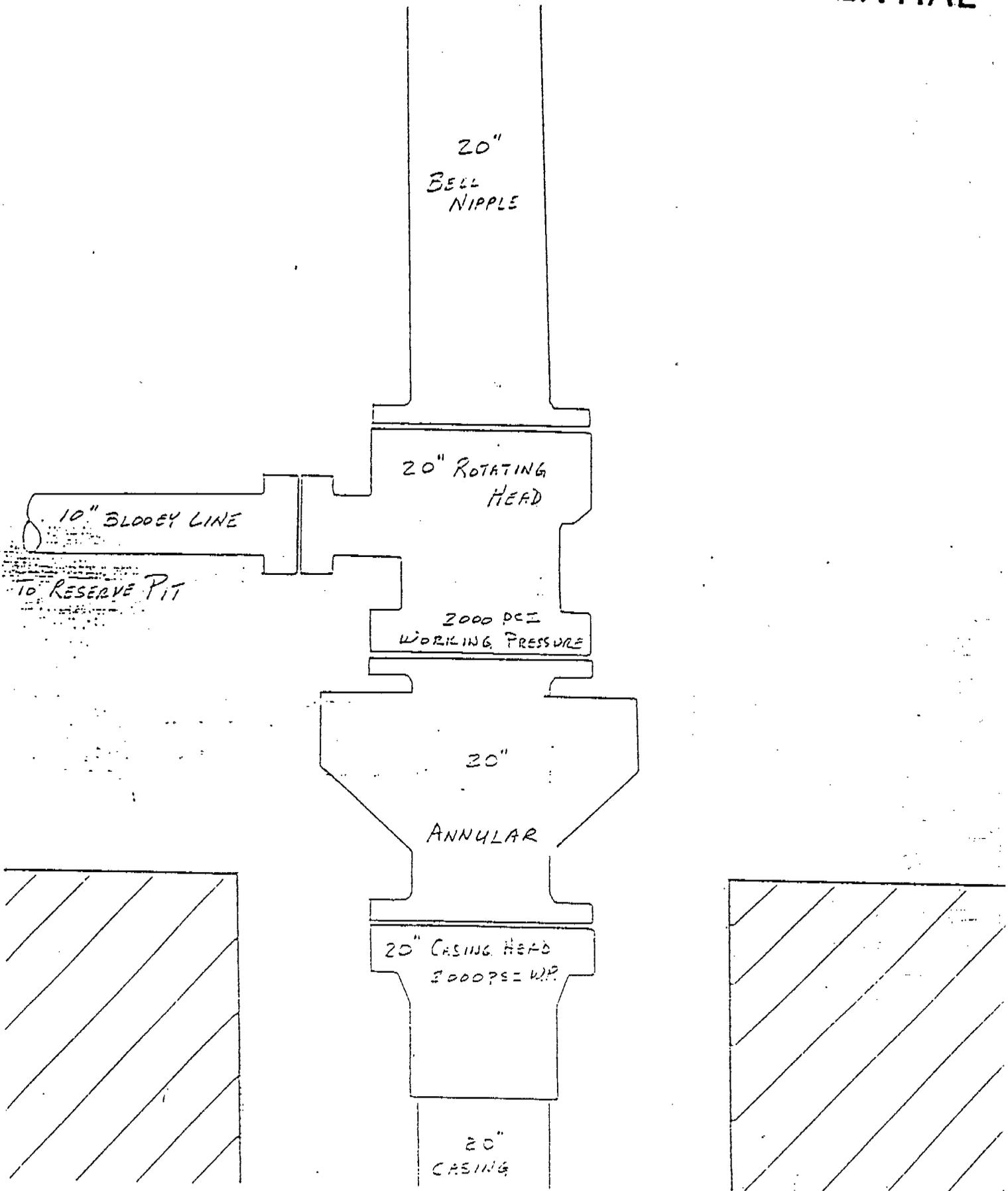
16-4-92

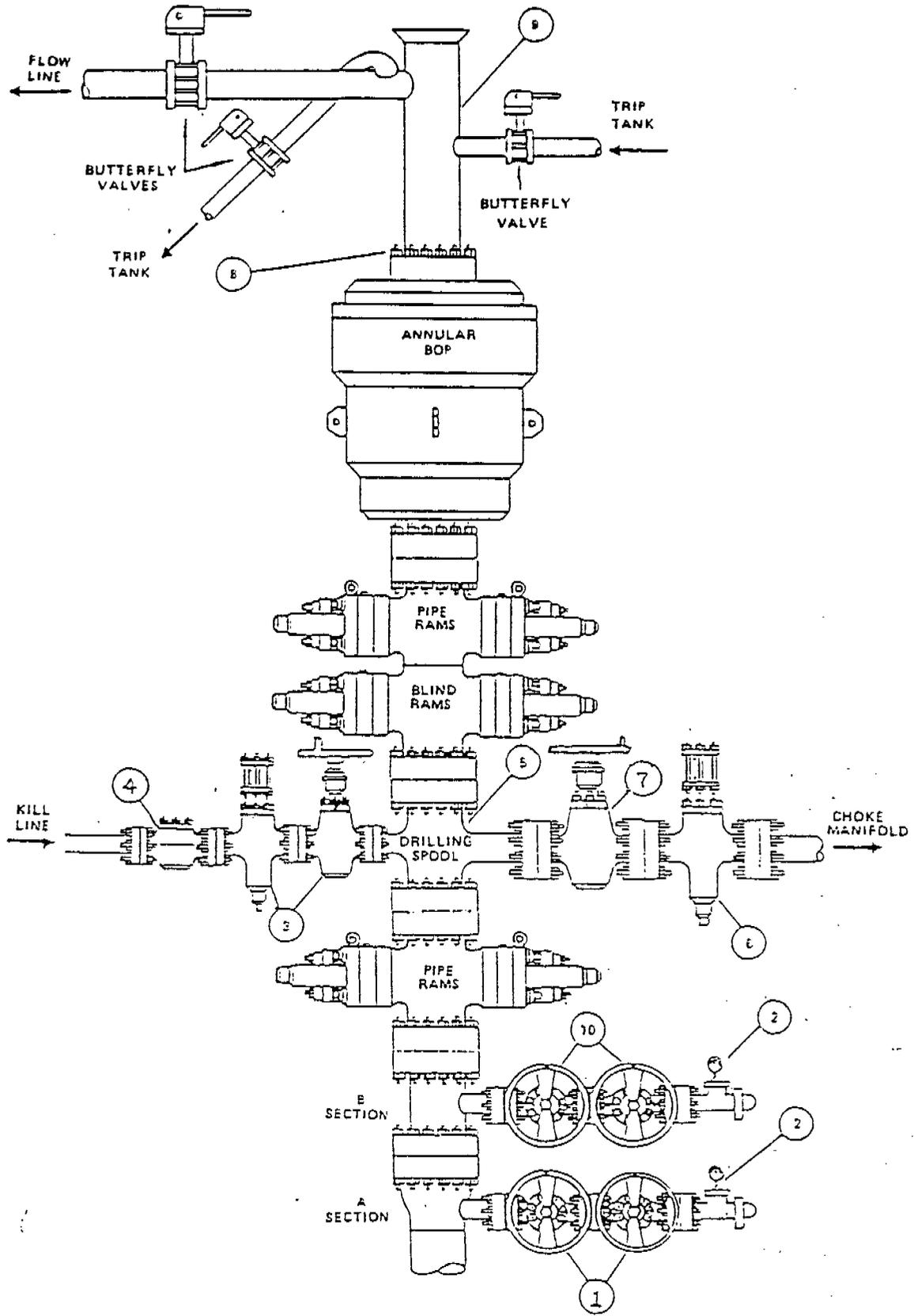
DATE

Richard A. Spell

Richard A. Spell
Manager, Environmental/Safety/
Regulatory

713/871-3400





COMPONENT SPECIFICATIONS

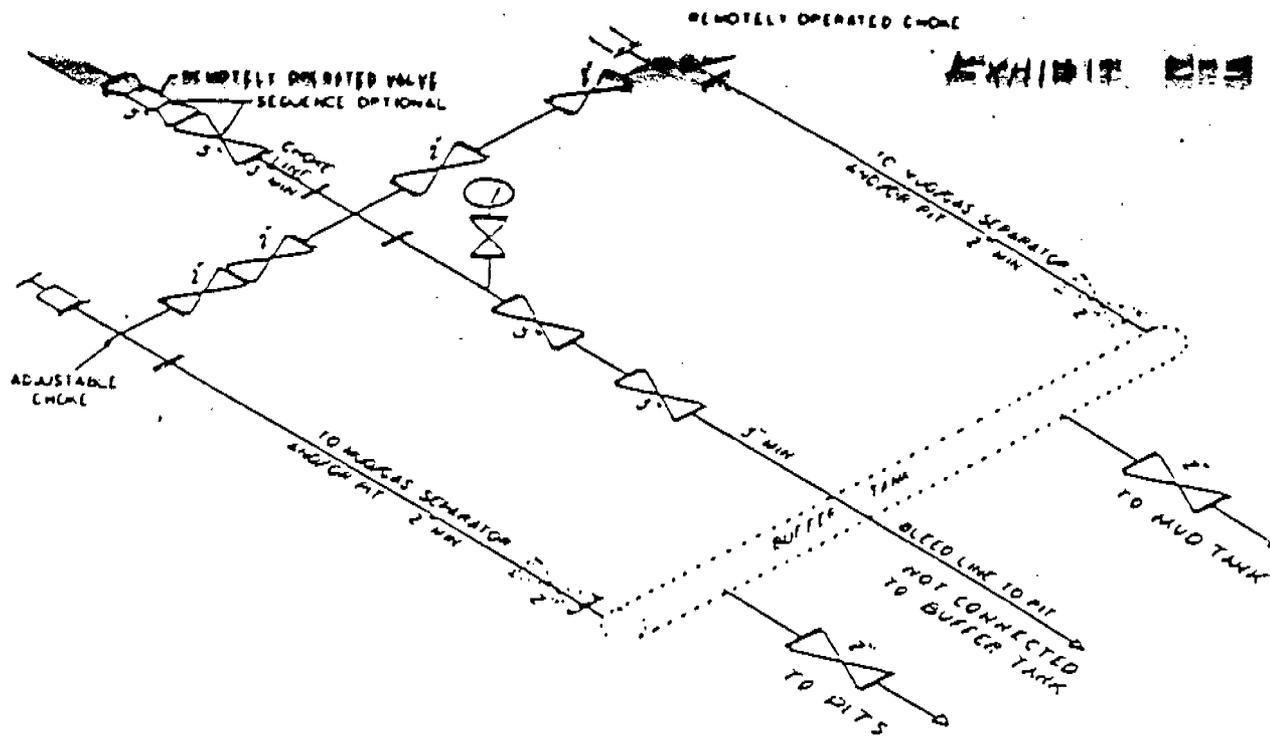
1. Screwed or flanged plug or gate valves — 2" minimum nominal dia. — same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as BOP stack. Second valve up stream may be hydraulically controlled.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets — 3" choke and 2" kill line minimum nominal dia. (See Table II-4 and Note D.)
6. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack. (See Note D.)
7. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
9. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.
10. Flanged plug or gate valve — 2" minimum nominal dia. — same working pressure as "B" section.

NOTE:

The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.

Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

CONFIDENTIAL



SM CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

Although not required for any of the choke manifold systems, buffer tanks are sometimes installed downstream of the choke assemblies for the purpose of manifolding the bleed lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a failure or malfunction without interrupting flow control. Though not shown on 2M, 3M, 10M, or 15M drawings, it would also be applicable to those situations.

[FR Doc. 88-25736 Filed 11-17-88; 8:65 am]
 BILLING CODE 4310-01-C

CONFIDENTIAL



May 17, 1991

CONFIDENTIAL

BUREAU OF LAND MANAGEMENT
Grand Resource Area Office
88 S. Sand Flats Road
Moab, Utah 84532

RE: COLUMBIA GAS DEVELOPMENT CORPORATION
LETTER OF CERTIFICATION

Columbia Gas Development Corporation hereby certifies that it is the operator of the following wells:

Kane Springs Federal #28-1
Kane Springs Federal #14-1
Kane Springs Federal #20-1
Kane Springs Federal #10-1

Columbia Gas Development Corporation shall be responsible for complying with the terms and conditions of the lease for all the operations conducted on the leased land.

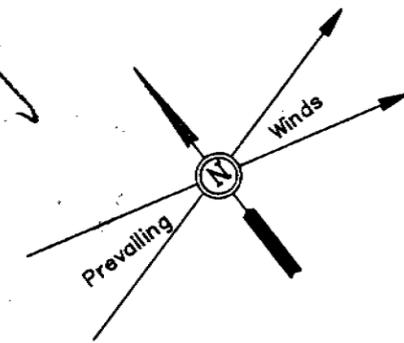
Signed this 17th day of May, 1991.



Leslie M. Moor, Jr.
Vice President, Drilling & Production

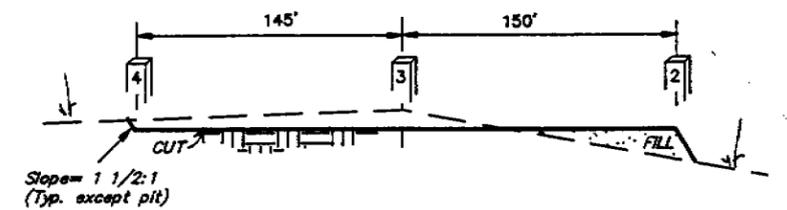
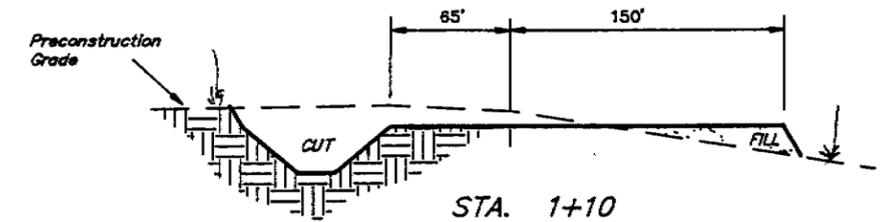
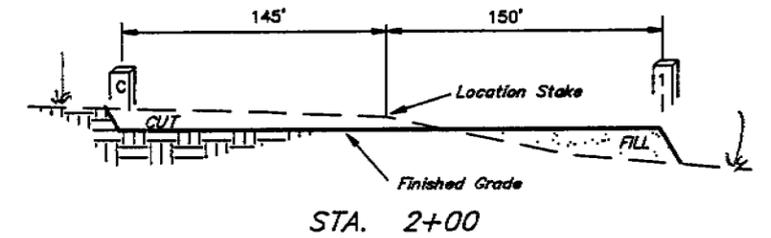
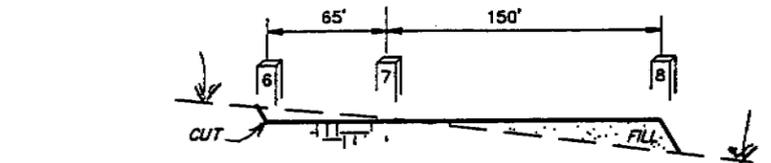
COLUMBIA GAS DEVELOPMENT CORP.

LOCATION LAYOUT FOR
KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.



SCALE: 1" = 50'
DATE: 5-28-92
Drawn By: R.E.H.
REVISED: 6-4-92 R.E.H.
REVISED: 6-8-92 J.L.G.

X-Section Scale
1" = 40'
1" = 100'



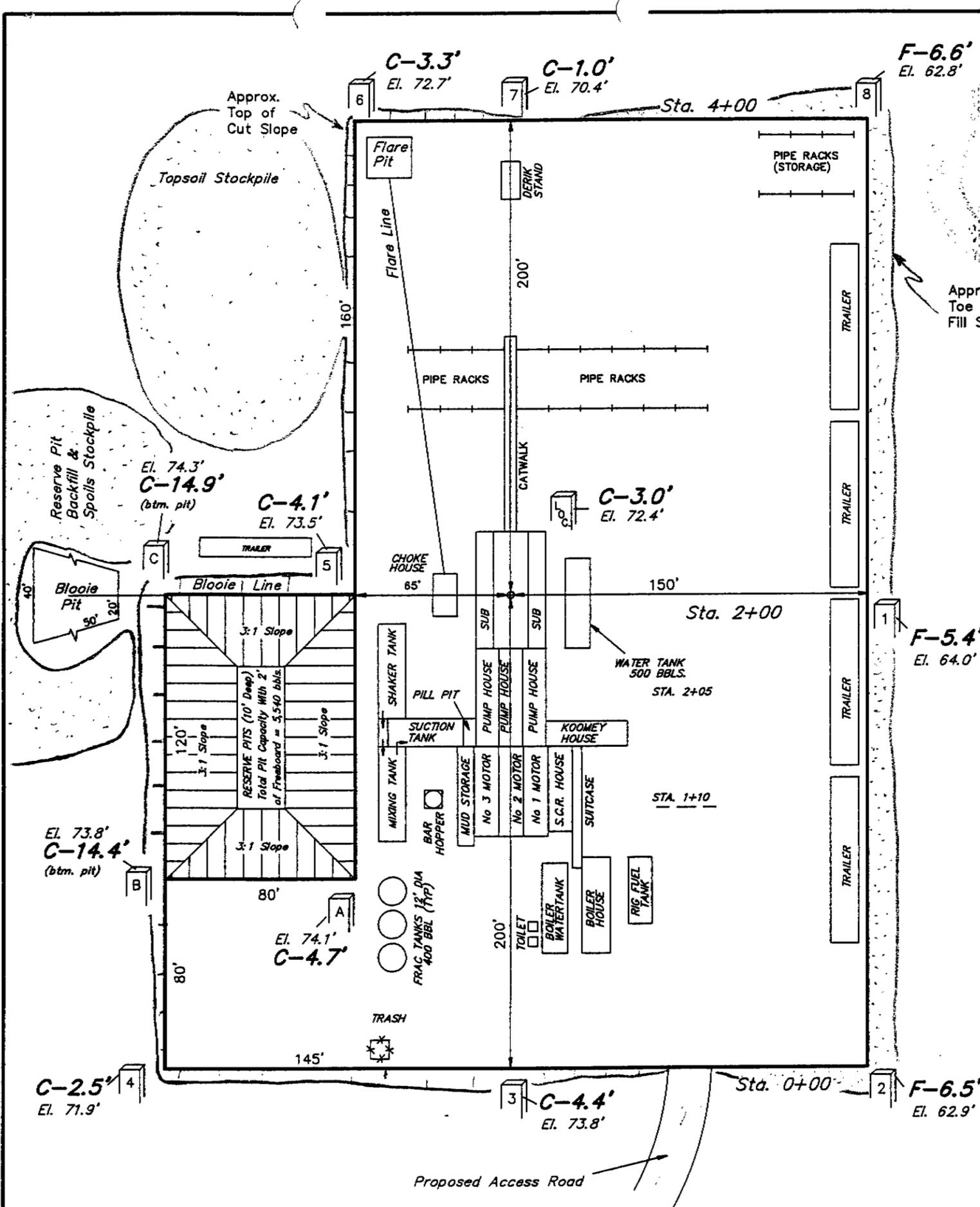
TYP. LOCATION LAYOUT
TYP. CROSS SECTIONS

APPROXIMATE YARDAGES

CUT		EXCESS MATERIAL AFTER 5% COMPACTION	= 2,780 Cu. Yds.
(6") Topsoil Stripping	= 1,890 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,780 Cu. Yds.
Remaining Location	= 8,270 Cu. Yds.	EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.
TOTAL CUT	= 10,160 CU.YDS.		
FILL	= 7,010 CU.YDS.		

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5272.4'
FINISHED GRADE ELEV. AT LOC. STAKE = 5269.4'



EL. 73.8'
C-14.4'
(btm. pit)

C-2.5'
EL. 71.9'

EL. 74.3'
C-14.9'
(btm. pit)

EL. 74.1'
C-4.7'

C-4.1'
EL. 73.5'

C-3.3'
EL. 72.7'

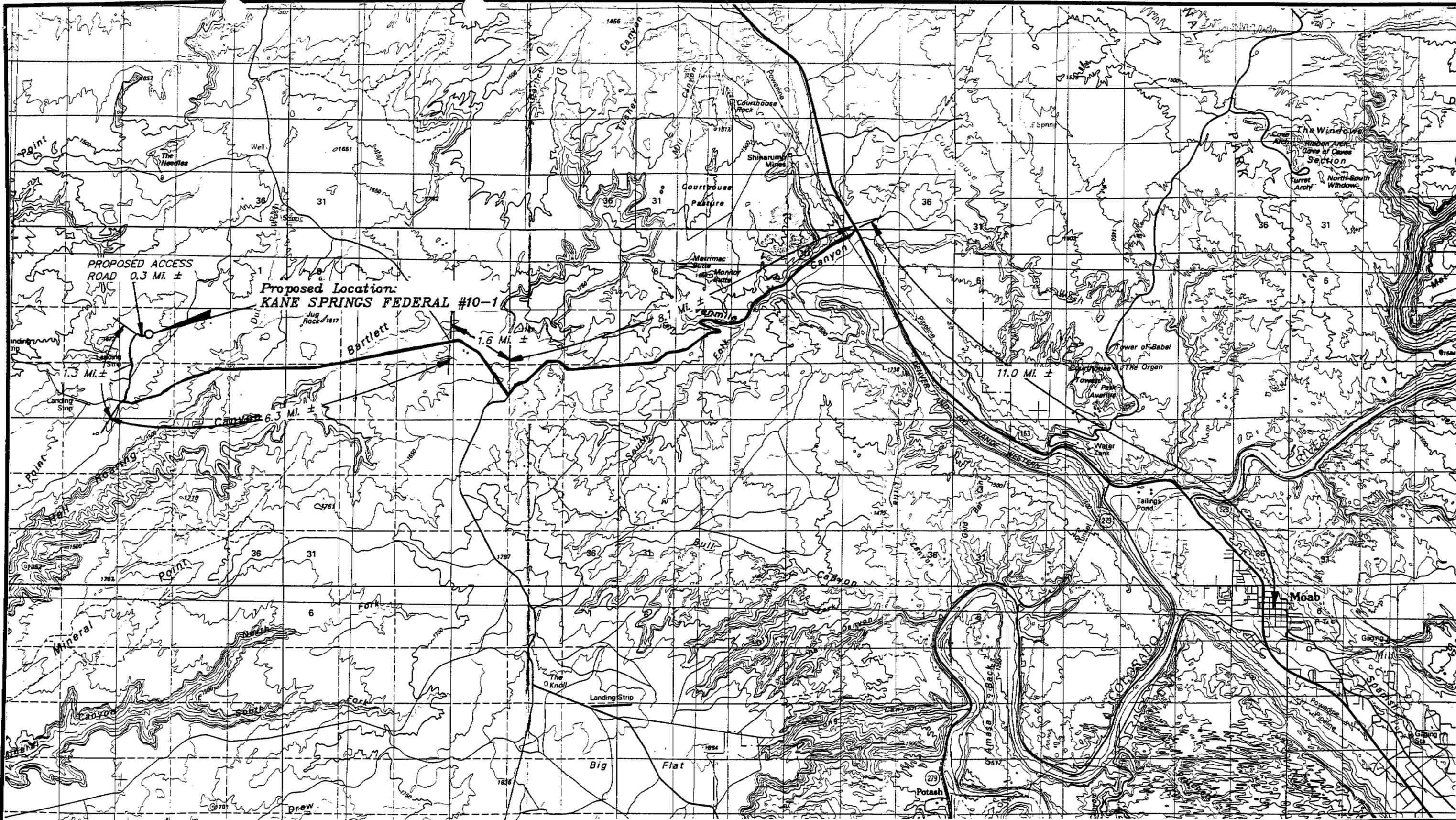
C-1.0'
EL. 70.4'

C-3.0'
EL. 72.4'

F-5.4'
EL. 64.0'

F-6.5'
EL. 62.9'

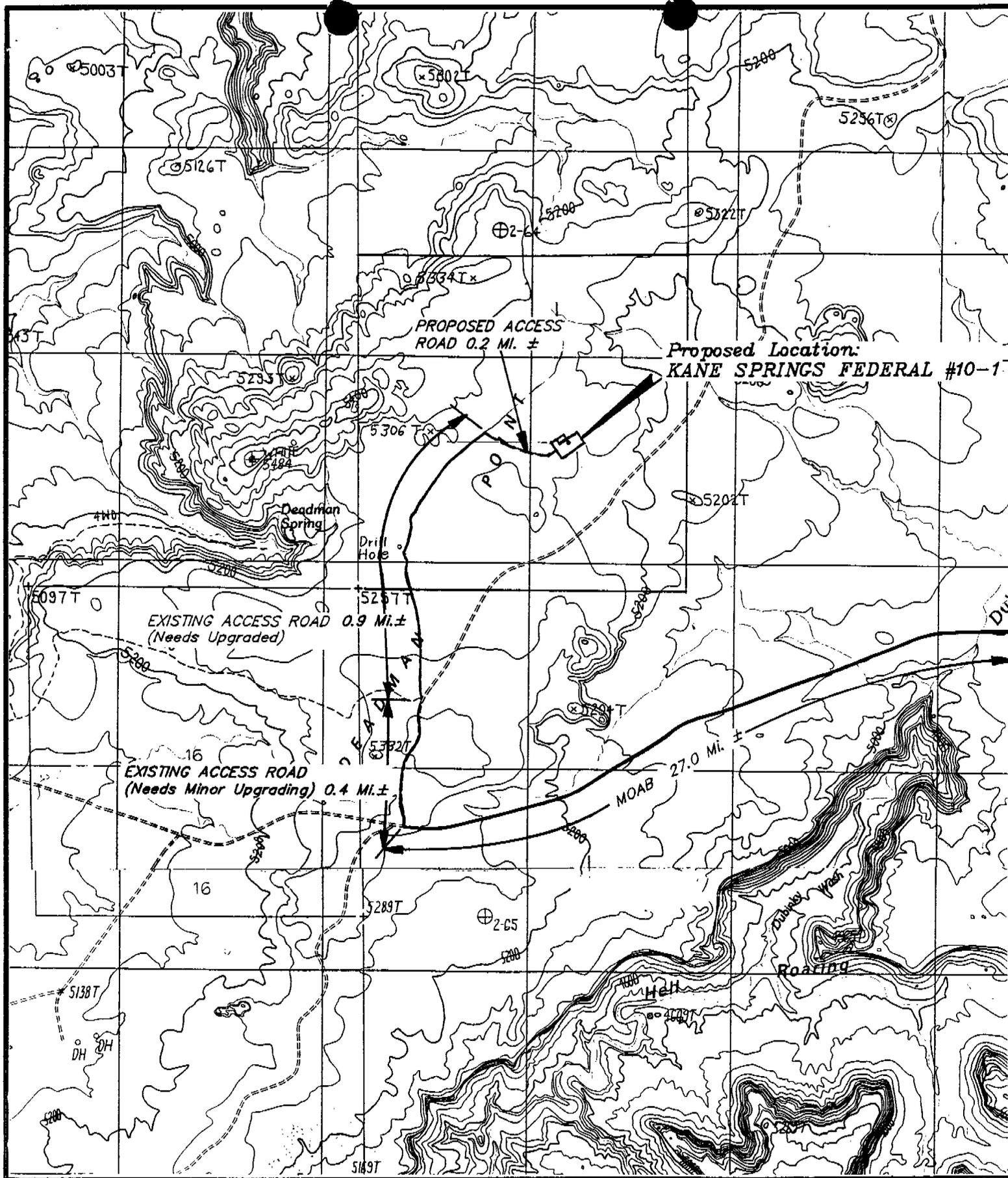
F-6.6'
EL. 62.8'



Proposed Location:
KANE SPRINGS FEDERAL #10-1

TOPOGRAPHIC
 MAP "A"
 DATE: 5-28-92 J.L.G.

COLUMBIA GAS DEVELOPMENT CORP.
 KANE SPRINGS FEDERAL #10-1
 SECTION 10, T25S, R18E, S.L.B.&M.



TOPOGRAPHIC
MAP "B"

SCALE: 1" = 2000'

DATE: 5-28-92 J.L.G.



COLUMBIA GAS DEVELOPMENT CORP.

KANE SPRINGS FEDERAL #10-1
SECTION 10, T25S, R18E, S.L.B.&M.



RECEIVED

June 24, 1992

JUL 10 1992

DIVISION OF OIL, GAS & MINING

United States Department of the Interior
Bureau of Land Management
Utah State Office
P. O. Box 45155
Salt Lake City, UT 84155

APPROVED - EFFECTIVE JUL 6 1992
(Orig. Sgd.) R. A. Henricks

DEPARTMENT OF LAND MINERALS
BUREAU OF LAND MANAGEMENT

Attn: Mr. Robert Henricks

RE: Plan of Development
Kane Springs Federal Unit
Grand and San Juan Counties, UT

Dear Mr. Henricks:

Pursuant to our telephone conversation of June 24, 1992 with Mickey Coulthard, Columbia Gas Development Corporation, hereby, submits the following underlined changes to the Plan of Development for the Kane Springs Federal Unit:

The Kane Springs Federal #10-1 Well will spud on or before September 15, 1992. The surface location for the well is Township 25 South-Range 18 East Section 10; NW/4NW/4SE/4 with a bottom hole location in the NE/4SW/4NW/4 of Section 10. This provides for approximately 2,000' of horizontal displacement in the Cane Creek Zone.

If there are any questions or comments, or if there is anything further we need to do in this regard, please advise.

Very truly yours,

Michael K. Mendenhall
Michael K. Mendenhall, CPL
Senior Landman

/ccf

bcc: Columbia Gas Development
Fernando Flores
Rich Newhart
Richard Spell

EP Operating Company, LP
Attn: Gregg Abell

Exxon Company, USA
Attn: Robert Fields

DOG M

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858
6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other
2. Name of Operator
Columbia Gas Development Corporation
3. Address and Telephone No.
P. O. Box 1350, Houston, TX 77251 713/871-3400
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

7. If Unit or CA, Agreement Designation
Kane Springs Federal Ut
8. Well Name and No.
Kane Springs Fed. 10-1
9. API Well No.
10. Field and Pool, or Exploratory Area
Wildcat
11. County or Parish, State
Grand County, Utah

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

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

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

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

The following are corrections/clarification to the Eight Point Drilling Program submitted as part of the APD:

Item 3: We will be running a 5,000# BOP System/Cnoke Manifold.

Item 4: Intermediate Pipe: Burst design based on a shoe test of 17.0 ppge less .1 psi/ft gas gradient.

As per your request, attached is a copy of a typical cement design used in Kane Springs.

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

Signed _____ Title Regulatory Coordinator Date 7/24/92

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side

THE WESTERN COMPANY
CEMENTING RECOMMENDATION

REVISED HOLE SIZE SURF. CSG.

OPERATOR	COLUMBIA GAS
WELL	KANE SPRING FED 28-1
COUNTY, STATE	GRAND, UT
PREPARED BY	LEE BURLESON
DATE	10-25-91

TYPE OF JOB: SURFACE CASING

ANNULAR GEOMETRIES

ANNULAR I.D. (IN)	DEPTH (FEET)	TVD (FEET)
26.000 HOLE	650	650

SUSPENDED PIPES

OUTER DIAMETER (IN)	DEPTH (FEET)
20.000	650

MUD DENSITY	8.3	lb/gal
EST. STATIC TEMP	60	deg F
EST. CIRC. TEMP	60	deg F

THE WESTERN COMPANY
CEMENTING RECOMMENDATION

REVISED HOLE SIZE SURF. CSG.
 TYPE OF JOB: SURFACE CASING

VOLUME CALCULATIONS

650 FEET X 1.5053 CU FT X 1.20 WASH OUT FACTOR = 1174 CU FT
 TOTAL SLURRY VOLUME: 1174 CU FT
 209 BARRELS

SLURRY NO.	VOLUME CU FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
1	1174 /	1.14 =	1030 SACKS CLASS G + 44.000 % WATER

CEMENT PROPERTIES

	SLURRY NO.1
SLURRY WEIGHT (POUNDS PER GALLON)	15.81
SLURRY YIELD (CU FT PER SACK)	1.14
AMOUNT OF MIX WATER (GAL PER SACK)	4.97
ESTIMATED PUMP TIME (HR:MM)	3:00
COMPRESSIVE STRENGTH:	
24.0 HR.@ 60 F (PSI)	1500

THE WESTERN COMPANY
CEMENTING RECOMMENDATION
COST ESTIMATE FOR SURFACE CASING

MATERIALS:

1030	SKS	PREMIUM CEMENT	@ 9.650	9,939.50
MATERIAL TOTAL				\$9,939.50
MATERIAL TOTAL (DISCOUNTED @ 25.00%)				\$7,454.62

EQUIPMENT CHARGES:

1	EA	CEMENT PUMP CHARGES	@ 902.000	902.00
75	MILE	MILEAGE CHARGE 1 VEHICLE(S)	@ 2.600	195.00
75	MILE	PICKUP MILEAGE 1 VEHICLE(S)	@ 1.350	101.25
1030	FT3	SERVICE CHARGE	@ 1.200	1,236.00
3631	T-M	TON MILE DELIVERY	@ 0.800	2,904.80
EQUIPMENT TOTAL				\$5,339.05
EQUIPMENT TOTAL (DISCOUNTED @ 25.00%)				\$4,004.29
MATERIAL AND EQUIPMENT TOTAL				\$15,278.55
DISCOUNTED TOTAL				\$11,458.91

TOTAL COST ESTIMATE	\$11,458.91
---------------------	-------------

THE TECHNICAL DATA CONTAINED IN THIS PROPOSAL ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF WRITING AND ARE SUBJECT TO FURTHER ANALYSIS AND TESTING.
 THE PRICING DATA CONTAINED IN THIS PROPOSAL ARE ESTIMATES ONLY AND MAY VARY DEPENDING ON THE WORK ACTUALLY PERFORMED. PRICING DOES NOT INCLUDE FEDERAL, STATE AND LOCAL TAXES, OR ROYALTIES, OR STATE PRICE ADJUSTMENTS.
 THIS QUOTATION REMAINS IN EFFECT FOR THIRTY (30) DAYS FROM THE DATE OF PROPOSAL.

PRODUCT DESCRIPTIONS

CLASS G CEMENT (API) [Premium Cement]

Intended for use as a basic cement from surface to 8000 Ft. as manufactured, or can be used with accelerators and retarders to cover a wide range of well depths and temperatures.

THE WESTERN COMPANY
CEMENTING RECOMMENDATION
ORIGINAL

OPERATOR	COLUMBIA GAS
WELL	KANE SPRING FED 28-1
COUNTY, STATE	GRAND, UT
PREPARED BY	DALE LARSEN
DATE	10-02-91

TYPE OF JOB: INTERMEDIATE CSG.

ANNULAR GEOMETRIES

ANNULAR I.D. (IN)	DEPTH (FEET)	TVD (FEET)
19.166 CASING	650	650
17 1/2 HOLE	4500	4500

SUSPENDED PIPES

OUTER DIAMETER (IN)	DEPTH (FEET)	WEIGHT (LBS/FT)
13 3/8	4500	77.00

MUD DENSITY	16.5	lb/gal
EST. STATIC TEMP	97	deg F
EST. CIRC. TEMP	80	deg F

THE WESTERN COMPANY
CEMENTING RECOMMENDATION

ORIGINAL
TYPE OF JOB: INTERMEDIATE CSG.

VOLUME CALCULATIONS

400 FEET X 0.6946 CU.FT. X 1.20 WASH OUT FACTOR = 333 CU.FT.
 500 FEET X 0.6946 CU.FT. X 1.20 WASH OUT FACTOR = 417 CU.FT.

TOTAL SLURRY VOLUME: 750 CU.FT.
 134 BARRELS

SLURRY NO.	VOLUME CU.FT.	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
			40 BBL(225 CU.FT.) APS-1 @ 17.00 LB/GAL
1	333 /	2.00 =	170 SACKS PACESETTER LITE (G) + 6.000 % GEL(BENTONITE) + 3.000 % SALT + 105.000 % WATER
2	417 /	1.14 =	365 SACKS CLASS G + 44.000 % WATER

CEMENT PROPERTIES

	SLURRY NO.1	SLURRY NO.2
SLURRY WEIGHT (POUNDS PER GALLON)	12.46	15.81
SLURRY YIELD (CU. FT. PER SACK)	2.00	1.14
AMOUNT OF MIX WATER (GAL PER SACK)	10.97	4.97
ESTIMATED PUMP TIME (HH:MM)	4:30	2:30
COMPRESSIVE STRENGTH:		
24.0 HR.@ 97 F (PSI)	550	2100

THE WESTERN COMPANY
CEMENTING RECOMMENDATION
COST ESTIMATE FOR INTERMEDIATE CSG.

MATERIALS:

40	BBL	APS-1	@	75.000	3,000.00
19480	LB	BARITE	@	0.170	3,311.60
170	SKS	PACESETTER LITE	@	8.400	1,428.00
500	LB	SALT	@	0.110	55.00
365	SKS	PREMIUM CEMENT	@	9.650	3,522.25
702	FT3	SERVICE CHARGE	@	1.200	842.40
2622	T-M	TON MILE DELIVERY	@	0.800	2,097.60
MATERIAL TOTAL					\$14,256.85
MATERIAL TOTAL					\$10,692.64
(DISCOUNTED @ 25.00%)					

EQUIPMENT CHARGES:

1	EA	CEMENT PUMP CHARGES	@	1652.00	1,652.00
75	MILE	MILEAGE CHARGE 1 VEHICLE(S)	@	2.60	195.00
75	MILE	PICKUP MILEAGE 1 VEHICLE(S)	@	1.35	101.25
EQUIPMENT TOTAL					\$1,948.25
EQUIPMENT TOTAL					\$1,461.19
(DISCOUNTED @ 25.00%)					

AFTER THE INITIAL 8 HOURS, PUMP CHARGES WILL BE \$170.25/HOUR AFTER DISCOUNT.

FLOAT EQUIPMENT CHARGES: 8-RD, K-55 UNLESS OTHERWISE NOTED.

1	EA	13-3/8" FLOAT COLLAR	@	918.00	918.00
7	EA	13-3/8" CENTRALIZER	@	96.00	672.00
2	EA	13-3/8" STOP COLLARS	@	35.00	70.00
2	EA	THREAD LOCK	@	21.60	43.20
1	EA	13-3/8" GUIDE SHOE	@	378.00	378.00
FLOAT EQUIPMENT TOTAL					\$2,081.20
FLOAT EQUIPMENT TOTAL					\$1,769.02
(DISCOUNTED @ 15.00%)					

TOTAL COST ESTIMATE	\$13,922.85
----------------------------	--------------------

THE TECHNICAL DATA CONTAINED IN THIS PROPOSAL ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF WRITING AND ARE SUBJECT TO FURTHER ANALYSIS AND TESTING.
 THE PRICING DATA CONTAINED IN THIS PROPOSAL ARE ESTIMATES ONLY AND MAY VARY DEPENDING ON THE WORK ACTUALLY PERFORMED. PRICING DOES NOT INCLUDE FEDERAL, STATE AND LOCAL TAXES, OR ROYALTIES, OR STATE PRICE ADJUSTMENTS.
 THIS QUOTATION REMAINS IN EFFECT FOR THIRTY (30) DAYS FROM THE DATE OF PROPOSAL.

THE WESTERN COMPANY
CEMENTING RECOMMENDATION
ORIGINAL

OPERATOR	COLUMBIA GAS
WELL	KANE SPRING FED 28-1
COUNTY, STATE	GRAND, UT
PREPARED BY	DALE LARSEN
DATE	10-02-91

TYPE OF JOB: LONG STRING

ANNULAR GEOMETRIES

ANNULAR I.D. (IN)	DEPTH (FEET)	TVD (FEET)
12.275 CASING	4500	4500
12 1/4 HOLE	7450	7450

SUSPENDED PIPES

OUTER DIAMETER (IN)	DEPTH (FEET)	WEIGHT (LBS/FT)
9 5/8	7450	43.50

MUD DENSITY	16.5	lb/gal
EST. STATIC TEMP	117	deg F
EST. CIRC. TEMP	90	deg F

THE WESTERN COMPANY
CEMENTING RECOMMENDATION

ORIGINAL

TYPE OF JOB: LONG STRING

VOLUME CALCULATIONS

400 FEET X 0.3165 CU.FT. X 1.00 WASH OUT FACTOR = 127 CU.FT.
 2950 FEET X 0.3132 CU.FT. X 1.50 WASH OUT FACTOR = 1386 CU.FT.
 TOTAL SLURRY VOLUME: 1513 CU.FT.
 269 BARRELS

SLURRY NO.	VOLUME CU.FT.	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
			40 BBL (225 CU.FT.) APS-1 @ 17.00 LB/GAL
1	1513 /	0.99 =	1525 SACKS CLASS G + 0.300 % TF-4 + 34.000 % WATER

CEMENT PROPERTIES

	SLURRY NO.1
SLURRY WEIGHT (POUNDS PER GALLON)	16.94
SLURRY YIELD (CU. FT. PER SACK)	0.99
AMOUNT OF MIX WATER (GAL PER SACK)	3.84
ESTIMATED PUMP TIME (HH:MM)	3:00
COMPRESSIVE STRENGTH:	
24.0 HR. @ 117 F (PSI)	3750

* Add "G" + Hemite + Retard. #2% water.

Pump in Slurry For 7 1/2 hours

7680

THE WESTERN COMPANY
CEMENTING RECOMMENDATION
COST ESTIMATE FOR LONG STRING

MATERIALS:

40	BBL	APS-1	@	75.000	3,000.00
19480	LB	BARITE	@	0.170	3,311.60
1525	SKS	PREMIUM CEMENT	@	9.650	14,716.25
430	LB	TF-4	@	4.050	1,741.50
1670	FT3	SERVICE CHARGE	@	1.200	2,004.00
6123	T-M	TON MILE DELIVERY	@	0.800	4,898.40
MATERIAL TOTAL					\$29,671.75
MATERIAL TOTAL (DISCOUNTED @ 25.00%)					\$22,253.81

EQUIPMENT CHARGES:

1	EA	CEMENT PUMP CHARGES	@	2252.00	2,252.00
75	MILE	MILEAGE CHARGE 1 VEHICLE(S)	@	2.60	195.00
75	MILE	PICKUP MILEAGE 1 VEHICLE(S)	@	1.35	101.25
1	EA	RUBBER TOP PLUG	@	130.00	130.00
1	EA	RUBBER BOTTOM PLUG	@	194.00	194.00
EQUIPMENT TOTAL					\$2,872.25
EQUIPMENT TOTAL (DISCOUNTED @ 25.00%)					\$2,154.19

AFTER THE INITIAL 8 HOURS, PUMP CHARGES WILL BE
 \$170.25/HOUR AFTER DISCOUNT.

FLOAT EQUIPMENT CHARGES: 8-RD, K-55 UNLESS OTHERWISE NOTED.

1	EA	9-5/8" FLOAT SHOE	@	529.00	529.00
1	EA	9-5/8" FLOAT COLLAR	@	518.00	518.00
15	EA	9-5/8" CENTRALIZER	@	69.00	1,035.00
2	EA	9-5/8" STOP COLLARS	@	22.00	44.00
2	EA	THREAD LOCK	@	21.60	43.20
FLOAT EQUIPMENT TOTAL					\$2,169.20
FLOAT EQUIPMENT TOTAL (DISCOUNTED @ 15.00%)					\$1,843.82

TOTAL COST ESTIMATE	\$26,251.82
----------------------------	--------------------

THE TECHNICAL DATA CONTAINED IN THIS PROPOSAL ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF WRITING AND ARE SUBJECT TO FURTHER ANALYSIS AND TESTING.
 THE PRICING DATA CONTAINED IN THIS PROPOSAL ARE ESTIMATES ONLY AND MAY VARY DEPENDING ON THE WORK ACTUALLY PERFORMED. PRICING DOES NOT INCLUDE FEDERAL, STATE AND LOCAL TAXES, OR ROYALTIES, OR STATE PRICE ADJUSTMENTS.
 THIS QUOTATION REMAINS IN EFFECT FOR THIRTY (30) DAYS FROM THE DATE OF PROPOSAL.

PRODUCT DESCRIPTIONS

APS-1

=====
A WATER-EXTERNAL PHASE SPACER DESIGNED TO EFFECTIVELY REMOVE DRILLING MUD AND WALL CAKE DURING CEMENTING TO PREVENT CONTAMINATION OF THE CEMENT SLURRY AND IMPROVE BONDING. APS-1 IS COMPATIBLE WITH ALL OIL BASE MUDS, WATER BASE MUDS AND CEMENT SYSTEMS AND LEAVES THE DOWNHOLE SURFACES WATER WET THROUGH THE USE OF A SPECIAL SURFACTANT. APS-1 SPACER CAN BE MIXED AT 8-22 LB/GAL.

BARITE

=====
BARITE IS A NATURALLY OCCURRING MINERAL (BARIUM SULFATE) HAVING A SPECIFIC GRAVITY OF 4.23. IT IS WIDELY USED AS A WEIGHTING MATERIAL IN CEMENT SPACERS, AND OCCASIONALLY IN CEMENT SLURRIES.

CLASS G CEMENT

=====
INTENDED FOR USE AS A BASIC CEMENT FROM SURFACE TO 8000 FT. DEPTH AS MANUFACTURED, OR CAN BE USED WITH ACCELERATORS AND RETARDERS TO COVER A WIDE RANGE OF WELL DEPTHS AND TEMPERATURES.

PACESETTER LITE

=====
PACESETTER LITE IS A BLEND OF PORTLAND CEMENT WITH POZ A AND GEL AT A RATIO OF 65:35, CEMENT TO POZ A. DEPENDING ON THE DENSITY USED, IT CAN BE A LIGHTWEIGHT, ECONOMICAL FILLER SLURRY, OR AN INTERMEDIATE DENSITY PRODUCTION CEMENT. PACESETTER LITE SLURRIES HAVE GOOD RESISTANCE TO SULFATE ATTACK AND ALSO STRENGTH RETROGRESSION ABOVE 230 DEGREES FAHRENHEIT (BHST).

SODIUM CHLORIDE

=====
SODIUM CHLORIDE, COMMONLY CALLED SALT, IS USED TO REDUCE DAMAGE CAUSED BY CEMENT FILTRATE AND TO PROMOTE BETTER BONDING. AT LOW CONCENTRATIONS, LESS THAN 10% BY WEIGHT OF MIXING WATER, IT ACTS AS AN ACCELERATOR, WHILE AT CONCENTRATIONS GREATER THAN 15-18%, IT WILL RETARD THICKENING TIME AND STRENGTH DEVELOPMENT.

PRODUCT DESCRIPTIONS
(cont)

TF-4

A HIGH MOLECULAR WEIGHT POLYMER USED AS A DISPERSANT AND
TURBULENT FLOW INDUCER.



VIA AIRBORNE EXPRESS

July 24, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1 and 20-1-20
Grand County, Utah**

Dear Mr. Manchester:

As per your request, attached is a Sundry Notice detailing corrections/clarifications to the Eight Point Drilling Programs for the above referenced wells. Also attached is a copy of a typical cement program used in Kane Springs.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Regulatory Coordinator

WGD
Attachments

cc: State of Utah - Mr. R. J. Firth

JUL 27 1992

DIVISION OF
OIL GAS & MINES

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Kane Springs Federal Ut

8. Well Name and No.
Kane Springs Fed. 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Columbia Gas Development Corporation

3. Address and Telephone No.
P. O. Box 1350, Houston, TX 77251 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

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

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

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

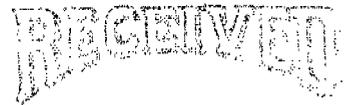
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to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

The following are corrections/clarification to the Eight Point Drilling Program submitted as part of the APD:

Item 3: We will be running a 5,000# BOP System/Choke Manifold.

Item 4: Intermediate Pipe: Burst design based on a shoe test of 17.0 ppge less .1 psi/ft gas gradient.

As per your request, attached is a copy of a typical cement design used in Kane Springs.



JUL 27 1992

DIVISION OF

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

Signed _____ Title Regulatory Coordinator Date 7/24/92

(This space for Federal or State office use)

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

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



RECEIVED

AUG 18 1992

**DIVISION OF
OIL GAS & MINING**

VIA AIRBORNE EXPRESS

August 17, 1992

Bureau of Land Management
Moab District Office
82 E. Dogwood
Moab, Utah 84532

Attention: Dale Manchester

Reference: Columbia Gas Development Corporation
Kane Springs Federal #10-1 Sec 10 T255 R18E
Grand County, Utah 43-019-31331

Dear Mr. Manchester:

As per our telephone conversation earlier today, attached is a page with the correction to the horizontal displacement for the 10-1. Also attached are signed copies of the Sundry Notices submitted for the 10-1 and 20-1-20.

Please let me know if you have any further questions or require any additional information.

Sincerely,

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

WGD
Attachments

cc: R. J. Firth, State of Utah

RECEIVED

AUG 18 1992

DIVISION OF
OIL GAS & MINING

Auxilliary Equipment:

- A. A Kelly cock will be kept in the string at all times.
- B. A stabbing valve will be kept on the derrick floor at all times.
- C. A float will not be used, other than when air drilling.

5. Proposed Mud Program

No chromates will be used in the well.

DEPTH	MUD WT	VIS	PV	YP	WL	TYPE MUD
0-805'	---	---	---	-	--	Air/Mist
805-4730'	---	---	---	--	--	Air/Mist
4730-7950'TVD	9.6	42-46	18	21	<10	Oil Base
7950-7984'TVD	9.6-12.5	42-46	18	21	<10	Oil Base
7984-7998'TVD	16.5	54-57	35	21	<4	Oil Base

6. Coring, Logging & Testing Program

During the logging and testing of the well, a verical seismic profile survey will be completed using truck mounted vibroseis equipment.

- A. Drill Stem Tests: None planned.
- B. Well Logging & Intervals:

LOG	INTERVAL
Induction/Sonic/GR	4730-7574'TVD
MWD-Induction/GR will be attempted in the horizontal section (7574-9720' MD, 7998' TVD).	

- C. Cores: A 30' oriented core will be attempted in Cane Creek formation.
- D. Directional Surveys: This well as proposed will be drilled vertically to 7574' and then drilled as a medium radius horizontal well in the direction of N 54.5° W for a total displacement of 2554'. Inclination test will be taken at 500' and at 1000' maximum intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum

*Drilling Program
Correction.*

Kane Springs 10-1

RECEIVED

AUG 18 1992

Auxilliary Equipment:

- A. A Kelly cock will be kept in the string at all times.
- B. A stabbing valve will be kept on the derrick floor at all times.
- C. A float will not be used, other than when air drilling.

DIVISION OF
OIL GAS & MINING

5. Proposed Mud Program

No chromates will be used in the well.

DEPTH	MUD WT	VIS	PV	YP	WL	TYPE MUD
0-805'	---	---	---	-	--	Air/Mist
805-4730'	---	---	---	--	--	Air/Mist
4730-7950'TVD	9.6	42-46	18	21	<10	Oil Base
7950-7984'TVD	9.6-12.5	42-46	18	21	<10	Oil Base
7984-7998'TVD	16.5	54-57	35	21	<4	Oil Base

6. Coring, Logging & Testing Program

During the logging and testing of the well, a verical seismic profile survey will be completed using truck mounted vibroseis equipment.

- A. Drill Stem Tests: None planned.
- B. Well Logging & Intervals:

LOG INTERVAL
Induction/Sonic/GR 4730-7574'TVD
MWD-Induction/GR will be attempted in the horizontal section (7574-9720' MD, 7998' TVD).

- C. Cores: A 30' oriented core will be attempted in Cane Creek formation.
- D. Directional Surveys: This well as proposed will be drilled vertically to 7574' and then drilled as a medium radius horizontal well in the direction of N 54.5° W for a total displacement of 2554'. Inclination test will be taken at 500' and at 1000' maximum intervals until KOP. At KOP a multi-shot will be taken. During the angle build portion, surveys will be taken at 90' maximum



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

August 19, 1992

Columbia Gas Development Corporation
P.O. Box 1350
Houston, Texas 77215-1350

Gentlemen:

Re: Kane Springs Federal #10-1 Well, 2333 feet from the south line, 2112 feet from the east line, NW 1/4 SE 1/4, Section 10, Township 25 South, Range 18 East, Grand County, Utah

Pursuant to Utah Code Ann. § 40-6-18, (1953, as amended), Utah Admin. R. 649-2-3, Application of Rules to Unit Agreements and R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., Oil and Gas Conservation General Rules.
2. Notification within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068.

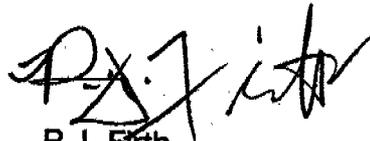
Page 2
Columbia Gas Development Corporation
Kane Springs Federal #10-1 Well
August 19, 1992

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

Trash and sanitary waste should be properly contained and transported to approved disposal locations, not retained in or disposed of in pits on location or downhole. Prior to the commencement of drilling operations, the operator should consult the local/county sanitarian and/or the Department of Environmental Quality, Division of Drinking Water/Sanitation, regarding appropriate disposal of sanitary waste.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-019-31331.

Sincerely,



R.J. Firth
Associate Director, Oil and Gas

ldc
Enclosures
cc: Bureau of Land Management
J.L. Thompson
WO11

**VIA AIRBORNE EXPRESS**

August 19, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find attached a Sundry Notice detailing a reduction in the proposed hole size and casing for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

AUG 20 1992

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA. Agreement Designation

Kane Springs Federal

8. Well Name and No.

Kane Springs Fed. 10-1

9. API Well No.

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL; Sec.10-T25S-R18E

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other _____
- Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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

Proposed Casing & Cementing Program

Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Quantity of Cement
17-1/2"	13-3/8"	61#	875'	650 sx to Surface
12-1/4"	9-5/8"	40#	5180'	380 sx to 3730'
8-3/4"	7"	29#	8357'	600 sx to 4800'
6"	4-1/2"	13.5#	8200-10400'	Production Hole

RECEIVED

AUG 20 1992

DIVISION OF OIL GAS & MINING

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

Signed Wendy Holmbeck

Title Regulatory Coordinator

Date 8/19/92

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
UTU-47858

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

7. UNIT AGREEMENT NAME
Kane Springs Federal Ut

8. FARM OR LEASE NAME
Kane Springs Federal

9. WELL NO.
#10-1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec.10-T25S-R18E

12. COUNTY OR PARISH
Grand

13. STATE
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
Columbia Gas Development Corporation

3. ADDRESS OF OPERATOR
P.O. Box 1350, Houston, TX 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 2333' FSL & 2112' FEL

At proposed prod. zone
BHL: 1088' FWL & 1467' FNL *73-019-31231*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
20 air miles WNW of Moab, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2112'
16. NO. OF ACRES IN LEASE 1280
17. NO. OF ACRES ASSIGNED TO THIS WELL 640

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A
19. PROPOSED DEPTH 8020TVD/10,400MD
20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL: 5272.4'

22. APPROX. DATE WORK WILL START*
Sept. 15, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
--------------	----------------	-----------------	---------------	--------------------

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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 Wendy G. DeCorney TITLE Regulatory Coordinator DATE 6/9/92

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
/s/ WILLIAM C. STRINGER Assistant District Manager
APPROVED BY _____ TITLE for Minerals DATE AUG 19 1992
CONDITIONS OF APPROVAL, IF ANY:

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A

Dated 1/1/80

*See Instructions On Reverse Side

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

Dog...

RECEIVED

AUG 21 1992

T25S, R18E, S.L.B.&M.

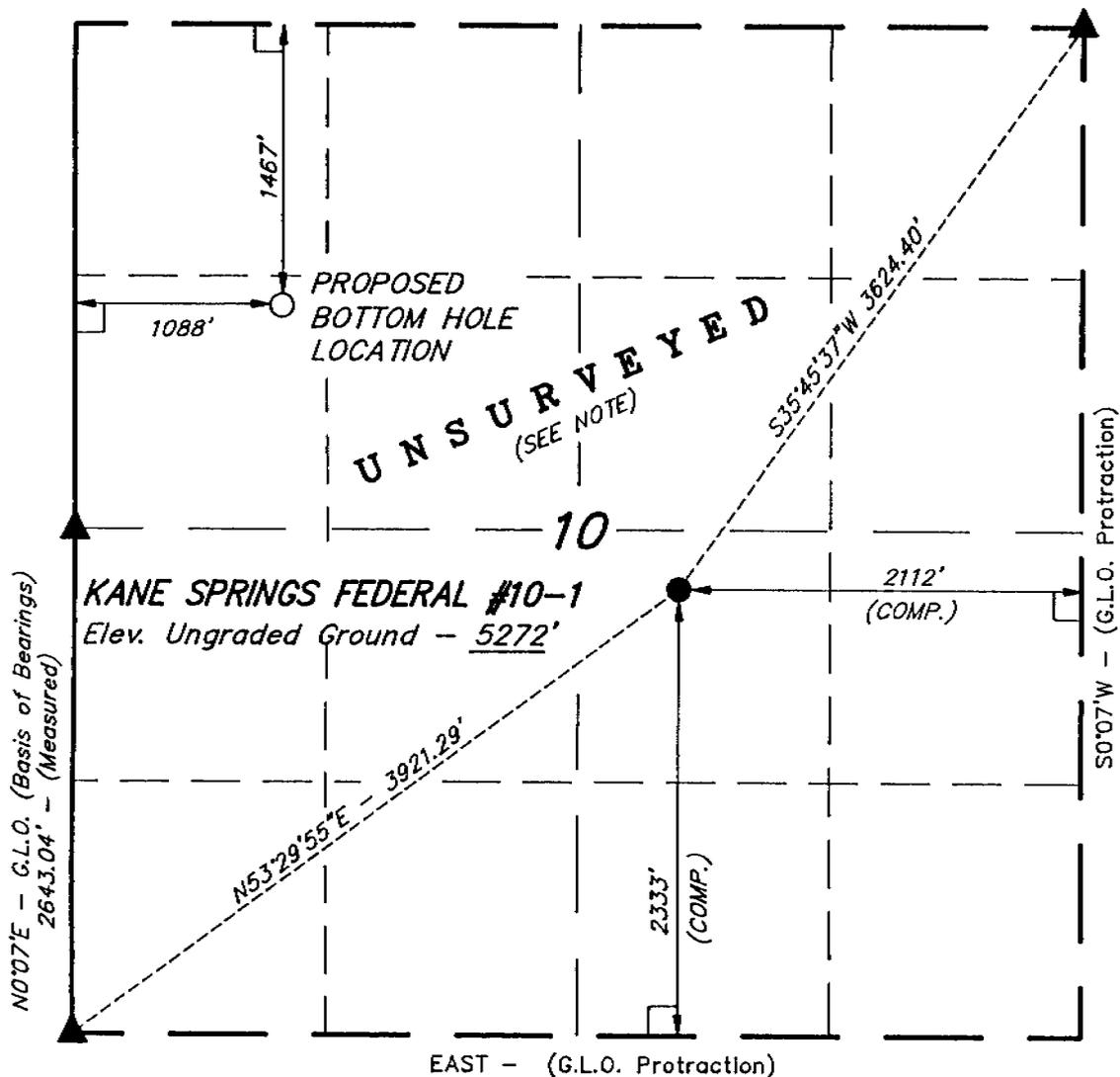
DIVISION OF
OIL GAS & MINING

COLUMBIA GAS DEVELOPMENT CORP.

Well location, KANE SPRINGS FEDERAL #10-1, located as shown in the NW 1/4 SE 1/4 of Section 10, T25S, R18E, S.L.B.&M. Grand County, Utah.

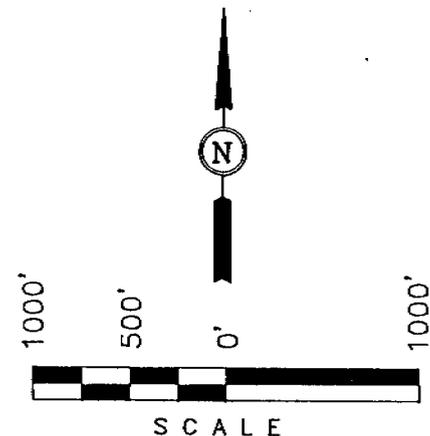
BASIS OF ELEVATION

THE WHITE TRIANGULATION STATION LOCATED IN THE SE 1/4 OF SECTION 9, T25S, R18E, S.L.B.&M. TAKEN FROM THE DUBINKY WASH QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5484 FEET.



NOTE:

THIS SECTION IS UNSURVEYED EXCEPTING ITS WEST LINE AND ITS NORTHEAST CORNER. BEARING INFORMATION ON THE SOUTH SECTION LINE IS TAKEN FROM THE G.L.O. PROTRACTION DIAGRAM OF THIS TOWNSHIP, AND THE WELL FOOTAGES WERE COMPUTED ACCORDINGLY.



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

Robert L. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 5709
STATE OF UTAH

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED. (Brass Caps)

LONGITUDE = 109°55'06"
LATITUDE = 38°38'37"

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH - 200 EAST, VERNAL, UTAH - 84078
(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED 5-26-92	DATE DRAWN 5-28-92
PARTY D.A. D.S. R.E.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE COLUMBIA GAS DEV. CORP.	

Columbia Gas Development Corp.
Kane Spring Fed. No. 10-1
NWSE Sec. 10, T. 25 S., R. 18 E.
Grand County, Utah
Lease Surface Loc. U-47858

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Columbia Gas Development Corp., is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by CO0356 (Principal - Columbia Gas Development Corp.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. A one-time, 90 day extension of this period may be granted. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

A. DRILLING PROGRAM

1. There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. "Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2. Safe drilling and operating practices must be observed.

2. No trivalent or hexavalent chromate additives shall be used in the mud system. Due to potential for contamination of usable quality water aquifers, chromates are banned from Federal leases.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

3. A 2000 lb. 20 inch annular preventer and BOP system shall be installed, tested and in working condition prior to drilling through the surface casing shoe according to Onshore Order No. 2 specifications. According to the diagram within the APD a choke manifold was not shown to be run with the 2000 lb. BOP system. The choke manifold shall be installed, tested and in working condition prior to drilling through the surface casing shoe according to Onshore Order No. 2 specifications.

4. As stated under item No. 3 (BOP tests) ram preventers are to be tested to seventy percent (70%) of working pressure, or seventy percent (70%) of the burst rating of the intermediate pipe, whichever is lesser. To be in compliance with the minimum requirements of Onshore Order No. 2., ram preventers shall be tested to the approved stack working pressure if isolated by a test plug or to 70% of internal yield pressure of casing if the BOP stack is not isolated from the casing.

5. BOP systems shall be consistent with API RP 53 and Onshore Oil and Gas Order No. 2. Pressure tests of the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Ram preventers shall be inspected and operated each trip (no more than once a day is necessary), and annular preventers shall be inspected and operated weekly to ensure good mechanical working order. These inspections shall be recorded on the daily drilling report.

6. When the completion program is determined, a sundry notice describing the completion shall be submitted to this office for approval.

7. Should the well become productive, the BLM, District Office must be notified no later than five business days after production begins. Notification shall be by letter or sundry notice, or orally to be followed by a letter or sundry notice.

8. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 Mmcf following its completion, whichever comes first, without prior written approval of the Authorized Officer. Surface casing shall have centralizer on each of the bottom three joints.

9. Surface casing shall be set 50 feet into the Chinle Formation regardless of the depth the Chinle is encountered.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

10. Intermediate casing shall be set 50 ft into the second clastic zone within the Paradox Formation regardless of the depth this zone is encountered.

11. According to the cement volume calculations submitted by Columbia Gas Development/Western Cement Company, the volume of cement is not sufficient to circulate the top of cement to 400 feet above the intermediate casing shoe. The volume of cement shall be sufficient to circulate the top of cement to 400 feet above the intermediate casing shoe.

12. To determine cement top and bond quality, a cement bond log (CBL) or cement evaluation tool (CET) shall be run after the 13 3/8" and the 9 5/8" casings are run and cemented in place.

13. As proposed, the horizontal portion of the well is to be drilled from a KOP at 7574 ft MD in a direction of N 54.5° E. The bearing of the hole shall not deviate more than $\pm 10^\circ$ without prior approval from the authorized officer.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

B. SURFACE USE PLAN

1. Employees will be notified that under the authority of 43 CFR 8365.1-2, camping stays within BLM's Moab District are limited to 14 days within a 10 mile radius during any 28 day period. Personal property may not be left unattended on public lands for more than 48 hours without written permission.
2. No construction or drilling operations will be authorized between February 1 and July 15, unless additional raptor surveys are completed prior to conducting operations to identify and avoid raptor nesting sites within 1/2 mile of the proposed action. Any peregrine falcon nesting areas identified within the project area will be avoided by 1 mile.
3. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer. Within five working days the authorized officer will inform the operator as to:
 - whether the materials appear eligible for the National Register of Historic Places;
 - the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and,
 - a timeframe for the authorized officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the authorized officer are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the authorized officer will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The authorized officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the authorized officer that the required mitigation has been completed, the operator will then be allowed to resume construction.

4. If drilling water is obtained from a source identified as a water depletion of the Upper Colorado River, the operator will be required to pay a water depletion charge for the number of acre-feet removed from the Colorado River. As specified in the Biological Opinion, "reasonable and prudent measures" will be utilized to prevent incidental take of fish when pumping water from the Colorado river channel. These measures include use of screening to cover the intake hose. The screen mesh will not exceed 1/8 inch during periods when young are known to drift (May 15 through July 30). During the remainder of the year, screen mesh will not exceed 1/4 inch. Intake hoses will not be placed in low-velocity portions of the river and water will be taken from fast current areas.
5. The Grand Resource Area will be contacted prior to VSP operations to ensure that archaeological sites 42GR2440 and 42GR2496 are avoided. Vibrator truck traffic will

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

be restricted to existing roads and trails unless the Grand Resource Area has verified that cultural resource clearances have been completed along the proposed truck route.

6. An encroachment permit will be required from the Grand County Road department prior to maintaining or upgrading county roads.
7. Surface disturbance and vehicular travel will be limited to the approved location and 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.
8. Access (ingress and egress) will be controlled by appropriate signs as needed along the road.
9. The access road and well pad will be sprinkled with water as needed to control dust.
10. During night-time drilling, all lights that can be modified within safety standards should be shielded from major viewsheds and their intensity minimized.
11. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6. When the well is plugged and abandoned, a plate with the information required in 43 CFR 3162.6 will be installed over the wellbore to lie horizontal with the ground surface.
12. In addition to procedures identified in the APD, these requirements will be followed during construction and reclamation of the reserve pit:
 - a. The reserve pit will be lined with bentonite unless specifications for an alternate method of lining are approved by the authorized officer.

Bentonite will be spread to a uniform depth over the reserve pit at an application rate of not less than 5 pounds per square foot. No bulk bentonite will be distributed when winds exceed 10 mph, and no sacked bentonite will be spread when winds exceed 20 mph unless approved in writing by the authorized officer.

After bentonite has been uniformly applied over the reserve pit, the bentonite will be thoroughly mixed with the underlying soil to a depth of 4 inches. Disking, rototilling, or a similar technique will be used to mix the bentonite with the soil. A minimum of two passes at right angles to each other will be made at the full depth of mixing.

If a synthetic liner is used, liner will be designed and installed in such a manner to assure it will not be punctured during installation or drilling operations.

- b. Upon completion of drilling operations, the reserve pit will be de-watered. Depending on the conditions at the time of disposal, the waste water will be (a) disposed of off-site at an approved disposal facility, (b) reinjected with the appropriate Underground Injection Control Permit from the State Division of Oil, Gas and Mining with concurrent approval by the Bureau of Land Management, Moab District Office, or (c) allowed to evaporate.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

- c. The remaining reserve pit solids will be tested prior to stabilization. At least three samples will be taken from different areas of the pit. These samples will be analyzed by an independent laboratory for salt properties (electrical conductivity, sodium adsorption ratio and exchangeable sodium percentage), heavy metal content and oil and grease content. The results of these tests will be provided to the Moab District Office within 30 days of analysis.
 - d. The reserve pit contents will then be mixed with fly ash, kiln dust, or bentonite to stabilize the salt adhered to the cuttings. Quantities of the mixing agent will be sufficient to assure the physical properties of the stabilized pit are similar to the physical properties of the native subsoils.
 - e. The mixed contents will be sampled and tested for leachability of salts and heavy metals. There will be a minimum of 5 samples taken from the mixed pit remains. The samples will come from each corner section of the pit and from the middle. These samples will also be analyzed by an independent laboratory. The results of this testing will be provided to the Moab District Office within 30 days of analysis.
 - f. If a synthetic liner is used, the remaining liner material will be folded over the edges of the mixed contents of the pit.
 - g. The mixed pit contents will be covered by a minimum of one foot of native subsoils. If required, a thicker application may be allowed to bring the top of this cap nearly up to grade. The pit will then be allowed to set up for a minimum of 5 days prior to additional work on the pit involving the bentonite cap.
 - h. A bentonite cap will be applied to the top of the pit. The bentonite will be a commercial grade and will be mixed with the native subsoils at the rate of 2-4 pounds per square foot of coverage. The cap will be at least 1 foot thick in the middle and grade to no less than 6 inches on the sides. The bentonite and subsoil mixture will be disked in to assure maximum effectiveness of the impervious cap. The cap will be crowned at the middle to allow proper drainage. The cap will extend at least 10 feet beyond the original pit boundaries to allow drainage away from the pit and prevent leaching of salts and heavy metals.
 - i. The bentonite cap will then be covered with approximately 2 feet of subsoil and topsoil. The intent is to bring the topsoil and subsoil mixture including the cap slightly above grade with enough soil to allow for revegetation and compensate for settling.
 - j. The Grand Resource Area Office will be kept informed of the timetables for all operations described above so that they can be witnessed.
13. At the end of drilling operations and prior to reclamation of the reserve pit, the fourth side of the pit will be fenced and the top of the pit will be covered with netting of one inch or less to prevent access by birds.
 14. During production, topsoil stockpiles will be spread over the reclaimed portions of the well pad, contoured and seeded. A portion of this topsoil would later be used for rehabilitation of the remaining portion of the well pad when it is abandoned.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

15. A conference will be held with the Grand Resource Area prior to installing production facilities. The conference will be utilized to maximize the screening abilities of nearby ridges, vegetation and sandstone outcrops. A flat, nonreflective, earthtone color will be specified for the production facilities at the conference.
16. Columbia will evaluate the feasibility of low-visibility flaring systems and incorporate the design into the production facilities if economically practical.
17. All site security guidelines identified in 43 CFR 3162.7-5 regulations will be followed.
18. All off-lease storage, off-lease measurement, or commingling (on-lease or off-lease) shall have prior written approval from the Assistant District Manager.
19. Prior to construction of pipelines, a plan or plans of development that describe in detail the construction, operation, maintenance, and termination of the right-of-way and its associated improvements and/or facilities. The degree and scope of these plans will vary depending upon (1) the complexity of the right-of-way or its associated improvement and/or facilities, (2) the anticipated technical information required by the authorized officer. The plans will be reviewed and, if appropriate, modified and approved by the authorized officer. An approved plan of development shall be made a part of the right-of-way grant.
20. In the event the road is graveled or surfaced, the material will be removed prior to recontouring the surface for rehabilitation.
21. The disturbed area will be recontoured and the topsoil will be spread over the recontoured area.
22. The surface will be scarified or ripped to a depth of 4 inches. The scarification will be perpendicular to the slope to intercept and retain runoff.
23. The area will be seeded at a time determined by the authorized officer using a pure live seed mixture as follows:

Indian Ricegrass	2 lbs/acre
Sand Dropseed	1 lbs/acre
Needle-and-thread	2 lbs/acre
Galleta	1.5 lbs/acre
Scarlet globemallow	0.5 lbs/acre
Lewis flax	1 lbs/acre
Torrey Mormon Tea	1 lbs/acre
Winterfat	1.5 lbs/acre

If the seed is broadcast, the above rates will be doubled.

24. The reseeded well pad will be fenced with 4 strands of barbed wire. The fence will be maintained until a vegetative cover is established to control erosion and to blend into the surrounding landscape, and then the operator will remove the fence.

RECEIVED

AUG 21 1992

**DIVISION OF
OIL GAS & MINING**

C. REQUIRED NOTIFICATIONS AND APPROVALS

Required verbal notifications are summarized in Table 1, attached.

Spud- Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District office within twenty-four (24) hours after spudding (regardless of whether spud was made with a dry hole digger or big rig). If the spudding occurs on a weekend or holiday, the written report will be submitted on the following work day.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the District Office on a weekly basis.

Undesirable Events/Immediate Reports- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the Resource Area in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Area Manager is to be notified.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Authorized Officer. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

First Production- Should the well be successfully completed for production, the Assistant District Manager, Minerals Division will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and /or gas) will be submitted when requested by the Assistant District Manager.

RECEIVED

AUG 21 1992

DIVISION OF
OIL GAS & MINING

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the BLM, Moab District Office prior to initiating plugging operations. Table 1 of this document provides the after-hours phone numbers of personnel who are authorized to give plugging instructions.

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker with a plate, cap, or beaded-on with a welding torch:

"Fed" or "Ind", as applicable. "Well number, location by 1/4 1/4 section, township and range". "Lease number".

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Assistant District Manager, Minerals Division within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Venting/Flaring of Gas- NTL-4A allows venting/flaring of gas during the initial well evaluation period not to exceed 30 days or 50 Mmcf. Venting/flaring beyond the initial test period threshold must be approved by the District Office.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Assistant District Manager for off-lease measurement, off-lease storage or commingling (either down-hole or at the surface).

TABLE 1

NOTIFICATIONS

Notify Elmer Duncan or Rich McClure of the Grand Resource Area, at (801) 259-8193 for the following:

- 2 days prior to commencement of dirt work, construction or reclamations;
- 1 day prior to spudding;
- 50 feet prior to reaching surface and intermediate casing depths;
- 3 hours prior to testing BOP's;
- 12 hours prior to reaching kickoff point depth;
- 24 hours prior to closing the reserve pit.

RECEIVED

AUG 21 1992

**DIVISION OF
OIL GAS & MINING**

If the person(s) at the above number cannot be reached, notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If unsuccessful, then notify one of the following people listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab District Office, Branch of Fluid Minerals at (801) 259-6111. If approval is needed after work hours, you may contact the following:

Dale Manchester, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-6239
Eric Jones, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-2214

If unable to reach the above individuals including weekends, holidays, or after hour please call the following:

Lynn Jackson, Chief, Branch of Fluid Minerals	Office Phone: (801) 259-6111
	Home Phone: (801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS



September 4, 1992

RECEIVED

SEP 08 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

DIVISION OF
OIL GAS & MINING

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1 ST
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find enclosed a Sundry Notice and revised location plat for the above-referenced location.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Kane Springs Federal

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

Kane Springs Fed. 10-1

2. Name of Operator

Columbia Gas Development Corporation

9. API Well No.

43-019-3/33/

3. Address and Telephone No.

P. O. Box 1350, Houston, TX 77251-1350 713/871-3400

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL; Sec.10-T25S-R18E

11. County or Parish, State

Grand County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other _____
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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

See Attached for Revised Location Layout.

An increase in location size was necessary to accommodate a larger rig (Forwest Rig No. 6) and change in pit configuration.

RECEIVED

SEP 08 1992

DIVISION OF
OIL GAS & MINING

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

Signed Wendy A. DesChamps

Title Regulatory Coordinator

Date 9/3/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

*See Instruction on Reverse Side



September 14, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1 ST
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find enclosed a Sundry Notice reporting the spud date and time for the above-referenced well. Weekly activity reports will be submitted each Monday, commencing next week.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads 'Wendy G. DesOrmeaux'.

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

SEP 17 1992

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal U

8. Well Name and No.

Kane Springs. Fed. 10-

9. API Well No.

43-019-31331

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, TX 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Section 10-T25S-R18E

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Spud Date
- Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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

The above-referenced well was spud on 9/13/92 at 11:45 p.m.

RECEIVED

SEP 17 1992

DIVISION OF
OIL GAS & MINING

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

Signed Wendy A. Desormeaux
(This space for Federal or State office use)

Title Regulatory Coordinator

Date 9/14/92

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

*See Instruction on Reverse Side



RECEIVED

SEP 17 1992

DIVISION OF
OIL, GAS & MINING

September 14, 1992

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1 ST
Sec.10-T25S-R18E
Grand County, Utah**

Dear Mr. Firth:

Please find enclosed an Entity Action Form (Form 6) on the above referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Columbia Gas Development Corp. OPERATOR CODE N 5035
 ADDRESS P. O. Box 1350 PHONE NO. 713, 871-3400
Houston, Texas 77251-1350

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	11414	43-019-31331	Kane Springs Fed. #10-1		10	25S	18E	Grand	9/13/92	9/13/92

COMMENTS:
 Establish entity No. for new, single well
 Entity added 9-18-92. Jc

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

RECEIVED

SEP 17 1992

- ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)
 B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)
 C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
 D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
 E - OTHER (EXPLAIN IN COMMENTS SECTION)

(SEE INSTRUCTIONS ON BACK OF FORM)

DIVISION OF
OIL AND GAS MINING

Wendy L. Desormeaux
 SIGNATURE
 Regulatory Coord. 9/14/92
 TITLE DATE



September 17, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1 ST
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find enclosed a Sundry Notice reporting a change in casing program for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

SEP 21 1992

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Kane Springs Federal

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

Kane Springs Fed.10-1

2. Name of Operator

Columbia Gas Development Corporation

9. API Well No.

43-019-31331

3. Address and Telephone No.

P. O. Box 1350, Houston, TX 77251-1350

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec.10-T25S-R18E

11. County or Parish, State

Grand County, Utah

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

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

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

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

The following reflects a slight change in the casing program as listed in the APD:

9/16/92: Ran 13-3/8", 61#, K-55 casing as follows:

Guide Shoe	3'
8 Joints STC	343'
1 X/O Jt. - STC → BTC	40'
11 Jts. BTC	482'
	<hr/> 868'

RECEIVED

SEP 21 1992

DIVISION OF
OIL GAS & MINING

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

Signed Wendy D. DeGimenez

Title Regulatory Coordinator

Date 9/17/92

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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

*See Instruction on Reverse Side



September 21, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads 'Wendy G. DesOrmeaux'.

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

SEP 24 1992

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal U

8. Well Name and No.

Kane Springs Fed. 10-1

9. API Well No.

43-019-31331

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

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

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

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

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

SEE ATTACHED FOR ACTIVITY REPORT.

CONFIDENTIAL

RECEIVED

SEP 24 1992

DIVISION OF
OIL, GAS & MINING

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

Signed Wendy S. Dolan

Title Regulatory Coordinator

Date 9/21/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

Kane Springs Federal #10-1

9/13/92 RU. Well spud @ 2345 hours. Drilling to 105'.

9/14/92 Drilling w/air 105-550'.
Last Survey - 512' - 3/4°

9/15/92 Drilling to 874'. POOH. Hole tight. TIH. Break
circ w/air mist. Circ. Clean hole.
Last Survey - 858' - 1/4°

9/16/92 Finish circ hole. POOH. RU csg crew. Ran 8 jts
13-3/8", 61#, K-55, ST&C csg (343'), one X-0 jt
(40'), and 11 jts 13-3/8", 61#, K-55 Butress
(482'). RD csg crew. Cmt. w/200 sx 35/65 Poz @
12.1 ppg followed by 230 sx Cl G @ 15.8 ppg. WOC.
(Witnessed by Jack Johnson & Eric Jones - BLM)

9/17/92 Cut off 20" conductor & 13-3/8" csg. Made final
cut & weld on head. Test head to 1200#. NU BOP.

9/18/92 Test BOPE to 2500# for 10 min. Cmt base plate, NU
blooie line. TIH w/D.C. Test csg to 2160# - okay.
Drlg 874-890'.

9/19/92 Drlg 890-1102'.
Last Survey - 1054' - 3/4°

9/20/92 Drlg to 1857'. Short trip. PU string float and
unload hole. Drlg to 2031'.
Last Survey - 1934' - 1/2°

CONFIDENTIAL

RECEIVED

SEP 24 1992

DIVISION OF
ENERGY & MINERALS



RECEIVED

SEP 25 1992

DIVISION OF
OIL, GAS & MINING

September 22, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached a Sundry Notice detailing a change in plans for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Columbia Gas Development Corporation

3. Address and Telephone No.
P.O. Box 1350, Houston, TX 77251-1350 713/871-3482

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

7. If Unit or CA, Agreement Designation
Kane Springs Federal U

8. Well Name and No.
Kane Springs Fed. 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

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

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

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

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

RE: Deviation from Item A-12, APD Conditions of Approval
Running of Cement Bond Log

As agreed upon by the BLM and Columbia Gas Development Corporation, a cement bond log will not be run after the cementing of the 9-5/8" casing. In lieu of a cement bond log, an acceptable shoe test will be performed.

9-29-92
Matthew

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

Signed Wendy L. Desormeaux Title Regulatory Coordinator Date 9/22/92

(This space for Federal or State office use)

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

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



RECEIVED

SEP 30 1992

DIVISION OF
OIL, GAS & MINING

September 28, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Kane Springs Federal Ut

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

Kane Springs Fed.10-1

2. Name of Operator

Columbia Gas Development Corporation

9. API Well No.

43-019-31331

3. Address and Telephone No.

P.O. Box 1350, Houston, Texas 77251 713/871-3400

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

11. County or Parish, State

Grand Cty., Utah

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

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

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

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

See attached for Activity Report

RECEIVED

SEP 30 1992

DIVISION OF
OIL & GAS REVENUE

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

Signed Wendy A. Desormeaux

Title Regulatory Coordinator

Date 9/28/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

*See instruction on Reverse Side

Kane Springs Federal #10-1

9/21/92 Drilling w/air mist to 2584'.
Last Survey: 2250' - 1/2°

9/22/92 Unload hole, wash & ream 28' to bottom 15' of fill.
Drilling to 3088'. Blow hole w/air mist.
Last Survey: 2883' - 1°

9/23/92 Drilling & unloading hole to 3415'. No wtr returns
after 3393'.
Last Survey: 3245' - 1/2°

9/24/92 Drilling 3415 - 3681'.
Last Survey: 3636' - 1°

9/25/92 Drilling 3681-4007'. Switched from air to water @
3970'.
Last Survey: 3890' - 1-1/2°

9/26/92 Drilling 4007 - 4042'. Trip for new bit. Drlg
4042 - 4081'.
Last Survey 4042' - 1-1/4°

9/27/92 Switched to air drilling from 4186 - 4378'.
Switched from air to water 4378 - 4418'.
Last Survey: 4264' - 1-1/4°

RECEIVED

SEP 30 1992

DIVISION OF
OIL & GAS REGULATION



October 5, 1992

RECEIVED

OCT 09 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

RECEIVED
OCT 09 1992

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached the weekly activity report for the above-referenced well and additional information for the week of September 21st (as per Rich McClure's request).

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

SUBMIT IN TRIPLICATE

607 6 9 1992

7. If Unit or CA, Agreement Designation

Kane Springs Federal Ut

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

KaneSprings Fed. 10-1

2. Name of Operator

Columbia Gas Development Corporation

9. API Well No.

43-019-31331

3. Address and Telephone No.

P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

11. County or Parish, State

Grand County, Utah

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

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

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

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

SEE ATTACHED FOR ACTIVITY REPORT.

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

Signed

Wendy A. Sedberry

Title

Regulatory Coordinator

Date

10/5/92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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

*See Instruction on Reverse Side

Kane Springs Federal #10-1

- 9/28/92 Drlg with aerated water to 4678'.
Gained 1400 bbls water - chlorides 15,000 ppm.
Last Survey: 4485' - 1-1/4°
- 9/29/92 Drlg w/aerated water to 5010'.
Last Survey: 4769' - 1°
- 9/30/92 Drlg to 5010'. POOH. LD 9" DC & stabilizers.
Circ & cond hole for 9-5/8" csg.
Chlorides @ 4852' - 38,000 ppm; @ 5010'-120,000 ppm.
- 10/1/92 Circ w/full returns. Ran 113 jts 9-5/8" K-55, 40#,
ST&C Cl "A" csg 5118'; STBC 5150. RD csg crew.
TIH w/drill pipe.
- 10/2/92 Fin TIH w/tag-in adaptor on DP. Sting into collar.
RU Dowell. Cmt csg w/135 sx High Lite @ 11 ppg,
3.91 yield; followed by 118 sx Kolite @ 14.2 ppg,
1.61 yield. POOH. Lift stack, set slips. Set
spool, would not test. Wait on Cameron X-bushing.
- 10/3/92 NU head & test to 1080#, okay. NU BOP's & test
same. Tst csg to 5000#.
- 10/4/92 Fin tstg BOP's. Fill & tst csg to 2765. PU BHA &
TIH. Drld cmt, shoe & 10' form to 5166'. Perform
leak off tst. Clean pits. Transfer oil mud to
pits.

Kane Springs Federal #10-1

Additional Information for Activities the week of 9/21/92

- 9/20/92** Hit water @ 1797' - chlorides 800 ppm.
- 9/23/92** Averaged 280 Bbls water/hour. Hauled 7100 BW from reserve pit - dumped on road & location. Chlorides 2100 ppm.
- 9/24/92** Avg. 283 bbls water/hour. Pulled 2500 bbls water from reserve pit & dumped on road and location.
- 9/25/92** Hit saltwater @ 3841' - chlorides jumped to 12,000 ppm. Ceased putting on road & location.
- 9/28/92** While drlg w/air, gained 1400 bbls - 15,000 ppm chlorides.



RECEIVED

OCT 14 1992

DIVISION OF
OIL GAS & MINING

October 12, 1992

Bureau of Land Management
Attn: Dale Manchester
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads 'Wendy G. DesOrmeaux'.

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal

8. Well Name and No.
Kane Springs Fed. 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand Cty, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

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

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Weekly Activity
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

OCT 14 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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

Signed Wendy A. DeCunzio

Title Regulatory Coordinator

Date 10/12/92

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

Kane Springs Federal #10-1

10/5/92 Fin filling pits w/oil base mud. Displace fresh water in hole w/oil base mud. Drlg 5166-5480'. LS 5256' - 1°.

10/6/92 Drlg 5480-6075'. LS 6053' - 3°. MW 11.6

10/7/92 Drlg 6075-6227, ream every 10'. Drlg 6227-6400'. LS 6334' - 3-3/4°, MW 11.8

10/8/92 Drlg 6400 - 6920. LS 6849' - 2-3/4° MW 11.6

10/9/92 Drlg 6920-6940'. Short trip to 5115'. Drlg 6940-7200'. LS 7154' - 2-1/2°, MW 11.7

10/10/92 Drlg 7200 - 7280'. POOH to log w/Halliburton - would not work. RD Halliburton, RU Sperry Sun MWD. Test MWD. TIH. MW 11.8

10/11/92 RU Halliburton. Ran gyro thru DP - could not get thru at 6738'. Survey w/MWD to 7280'. Drill 7280-7390'. Work stuck pipe free. Unload data from MWD. LD DC's & other tubulars. MW 12.1

CONFIDENTIAL



RECEIVED

OCT 23 1992

DIVISION OF
OIL GAS & MINING

October 20, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Ut

8. Well Name and No.

Kane Springs Fed 10-1

9. API Well No.

43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State

Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Weekly Activity Rpt
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT

RECEIVED

OCT 23 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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

Signed Wendy A. DeMaury

Title Regulatory Coordinator

Date 10/20/92

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

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

*See Instruction on Reverse Side

Kane Springs Federal #10-1

10/12/92 PU MWD tools & motor - test. TIH. Circulate & wash to bottom. Sliding w/motor to kick off hole. LS 7440' - 8° - N 60.2° W

10/13/92 Sliding & building angle 7485-7630'. LS 7566' - 30.6° - N 53° W

10/14/92 Drlg 7630 - 7649'. POOH. PU BHA, LD motor. Test MWD. TIH. Break circ @ 5920'. Tag up @ 7480'. Wash & ream 7480 - 7649'. Drlg 7649-7700'. MW 12.6
LS 7631' - 38.9° - N 51.3° W

10/15/92 Work pipe thru tite spot @ 7687'. Rotate & slide 7702-7878'. MW 13.8
LS 7820' - 52.1° - N 55.6° W

10/16/92 Rotate & slide 7878-8130'. MW 14.5
LA 8071' - 67.2° - N 55.8° W

10/17/92 Rotate & slide 8130-8355'. Replace Kelly hose. MW 15.5
LS 8314' - 75.5° - N 56.2° W

10/18/92 Rotate 8355-8385'. Short trip to 5065'. Replace swab & monitor well. TIH - no fill. Rotate & slide 8385-8555'. MW 15.6

10/19/92 Rotate & slide 8555-8775'. MW 15.7

CONFIDENTIAL



October 27, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

OCT 29 1992

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Kane Springs Federal Ut

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Kane Springs Fed 10-1

2. Name of Operator
Columbia Gas Development Corporation

9. API Well No.
43-019-31331

3. Address and Telephone No.
P. O. Box 1350, Houston, TX 77251-1350 713/871-3482

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

11. County or Parish, State
Grand County, Utah

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

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

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

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

See Attached for Weekly Activity Report.

RECEIVED

OCT 29 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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

Signed Wendy L. Dealmeida Title Regulatory Coordinator Date 10/27/92

(This space for Federal or State office use)

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

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

*See Instruction on Reverse Side

Kane Springs Federal #10-1

10/20/92 Wash & ream 60' to btm. Drlg/rotating 8775-8897'.
MW 15.8

10/21/92 Rotate 8890-8948'. Circ & cond mud - raise wt to
15.9. Pump slug. POOH 17 stds. LD 5" DP.

10/22/92 PU 3-1/2" DP & BHA. PU kelly. Wash to btm. Circ
btm up & slug DP. POOH to run 7" csg.

10/23/92 RU & ran 208 jts 7", 29#, S-95 LT&C csg. Set at
8948'. Cmt w/30 bbl mud push mixed @ 16 ppg and
675 sx salt bond mixed @ 16.5 ppg, yield 1.13
cu.ft/sk. Set head, test 1080 - ok. NU BOP.

10/24/92 Test BOPE 2500#. TIH. Test csg 2000#, ok. Drlg
cmt & shoe.

10/25/92 Drlg 8948-57'. Test shoe @ 8957' w/700#. PU core
bbl, cut core #1. MW 15.4

10/26/92 PU mud mtr & new BHA. TIH. Log. Sliding 8976-
8983'. MW 15.4

CONFIDENTIAL



RECEIVED

NOV 05 1992

DIVISION OF
OIL GAS & MINING

November 3, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T258-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal Ut

8. Well Name and No.
Kane Springs Fed. 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Columbia Gas Development Corporation

3. Address and Telephone No.
P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

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

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

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

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

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

14. I hereby certify that the foregoing is true and correct
Signed Wendy N. DeComes Title Regulatory Coordinator Date 11/3/92

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

Kane Springs Federal #10-1

10/27/92 Slide & rotate 8983-9040'.
MW 15.3

10/28/92 Slide & rotate 9040-9058'. Circ thru choke and
raised mud wt. to 16.8.

10/29/92 Circ thru choke. Raise mud wt to 17#. Circ well
thru flowline & gas buster. Drill 9058-9062 thru
gas buster. Pull one std DP. Monitor well for
flow - well flowing after 36 min. Circ. Build mud
wt to 17.5. Pull one stand. Monitor well for
flow. Well stable.

10/30/92 POOH. C/O MWD. FTIH. Circ btms up. Wash & ream
to btm. No fill. Drlg 9062-9078. MW 17.6

10/31/92 Drlg 9078-9080. POOH. LD MWD & motor. TIH. Circ
gas out. POOH to run 4-1/2" liner.

11/1/92 PU 11 jts 4-1/2" csg, 13.5#, S-95 BUTT & hanger,
153' perforated csg, 265' regular csg. TIH. Hang
line @ 8657.81'. Circ btms up. Mud cut 17.5 to
14.4. Pump slug. POOH w/hanger setting tool. PU
DB pkr. Tugger line slipped off, pkr fell breaking
top slips off. WO new pkr.

11/2/92 TIH open ended. Circ mud cut to 15.4 on btms up.
Make up pkr assy. Test to 7500# for 15 min. PU
pkr & TIH.



RECEIVED

NOV 12 1992

DIVISION OF
OIL GAS & MINING

November 10, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T258-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Kane Springs Federal Unit

8. Well Name and No.
Kane Springs Fed.10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand Cty., Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Columbia Gas Development Corporation

3. Address and Telephone No.
P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

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

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

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

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

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED
NOV 12 1992
DIVISION OF
OIL, GAS & MINING

CONFIDENTIAL

14. I hereby certify that the foregoing is true and correct
Signed Wendy S. Dedman Title Regulatory Coordinator Date 11/10/92

(This space for Federal or State office use)

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

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

Kane Springs Federal #10-1

- 11/3/92 TIH w/Bkr DB pkr. Set pkr @ 8450'. Tstd to 1000 psi/15 min. - okay. POOH w/stinger. Set Model "G" bridge plug @ 8375'. Cleaned up floor & BOP stack to ND.
- 11/4/92 NU BOP's. Tested to 5000# - ok. TIH w/Baker BP retrieving tool. Latched onto BP. POOH - no BP. Broke down retrieving tool. Found top latch assy in tool. WO fishing tools.
- 11/5/92 TIH w/overshot, basket grapple & bumper jars to Baker BP @ 8375'. Released BP. TOOH w/fish. TIH to 8350 w/ 3-1/2" DP open-ended.
- 11/6/92 RU to run tbg. Tbg tester broke. WO replacement part.
- 11/7/92 RD & released Wilson Tbg Testers. WO new tbg testers - RU same. Ran 274 jts 2-7/8" AB STC 6.5# N80 tbg. Spacing out tbg string.
- 11/8/92 Fin spacing out tbg. Pump CaCl₂. Monitor well.
- 11/9/92 ND BOP's. NU tree. Clean rig & pits.

66-131311



November 18, 1992

RECEIVED
NOV 20 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

DIVISION OF
ON LAND ADMINISTRATION

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Kane Springs Federal Ut

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.

Kane Springs Fed.10-1

2. Name of Operator
Columbia Gas Development Corporation

9. API Well No.

43-019-31331

3. Address and Telephone No.
P.O. Box 1350, Houston, TX 77251-1350

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

11. County or Parish, State

Grand County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other Activity Report
- Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

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

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

NOV 20 1992

DIVISION OF
OIL & GAS REGULATION

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

Signed Wendy A. DesComaux

Title Regulatory Coordinator

Date 11/18/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

*See Instruction on Reverse Side

Kane Springs Federal #10-1

11/10/92 Clean pits. Release rig 1800 hrs 11/10/92.
11/11/92 Clean rig.
11/12/92 Ready rig to move out. Lower derrick.
11/13/92 Load out and move out rig.
11/14/92 Haul out rig. Clean up location.
11/15/92 Clean up location.
11/16/92 Clean oil mud storage tanks. Blade location.
Evaporate pit.
11/17/92 Blade around wellhead. Finish cleaning storage
tanks.
11/18/92 Preparing to move in test equipment to flow test
well.

RECEIVED

NOV 20 1992

DIVISION OF
OIL & GAS TRAINING

COLUMBIA GAS
Development



November 20, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached a Sundry Notice showing the date testing began and the date and amount of first oil movement.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

NOV 23 1992

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA. Agreement Designation
Kane Springs Federal Unit

8. Well Name and No.
Kane Springs Fed.10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P.O. Box 1350, Houston, TX 77251-1350

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec.10-T25S-R18E

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

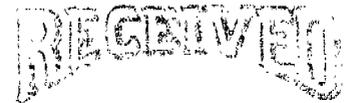
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input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

C.N.C.R.

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

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

DATE OF FIRST PRODUCTION: 11/19/92
 DATE TESTING BEGAN: 11/19/92 - 7:00 AM
 AMOUNT OF OIL - 1ST LOAD: 275.55 Bbls
 PURCHASER: Amoco Production Company
 TRANSPORTER: D. B. Taylor



NOV 23 1992

DIVISION OF
OIL, GAS & MINING

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

Signed Wendy A. Desormeaux Title Regulatory Coordinator Date 11/20/92

(This space for Federal or State office use)

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

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



RECEIVED

NOV 30 1992

DIVISION OF
OIL GAS & MINING

November 24, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T258-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Kane Springs Federal

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Kane Springs Fed.10-1

2. Name of Operator
Columbia Gas Development Corporation

9. API Well No.
43-019-31331

3. Address and Telephone No.
P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

11. County or Parish, State
Grand County, Utah

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

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

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

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

SEE ATTACHED FOR WEEKLY ACTIVITY REPORT.

RECEIVED

NOV 30 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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

Signed Wendy A. DeOrmeaux Title Regulatory Coordinator Date 11/24/92

(This space for Federal or State office use)

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

Kane Springs Federal #10-1

11/19/92 Preparing to flow test well. RU lines & equipment.
11/20/92 Testing well. Shipped 275.55 bbls oil.
11/21/92 Continue well test to 2130 hrs. SI & RD from test.
11/22/92 Began RD test equipment.
11/23/92 Load out rental equipment. Cleaned last of test
oil out of test tanks. Installing fence around
reserve pit area.
11/23/92 SI for reservoir build-up.

CONFIDENTIAL

RECEIVED

NOV 30 1992

DIVISION OF
OIL, GAS & MINING



RECEIVED

DEC 07 1992

DIVISION OF
OIL GAS & MINING

December 2, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T258-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Kane Springs Federal Ut

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Kane Springs Fed. 10-1

2. Name of Operator
Columbia Gas Development Corporation

9. API Well No.
43-019-31331

3. Address and Telephone No.
P.O. Box 1350, Houston, Texas 77251-1350 713/871-3400

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

11. County or Parish, State
Grand County, Utah

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

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

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

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

11/24/92 - 12/1/92 SI for reservoir build-up.

RECEIVED

DEC 07 1992

DIVISION OF
OIL, GAS & MINING

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

Signed Wendy H. DeSormeau

Title Regulatory Coordinator

Date 12/2/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

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

*See Instruction on Reverse Side



RECEIVED

DEC 11 1992

DIVISION OF
OIL GAS & MINING

December 8, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached the weekly activity report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Kane Springs Federal

1. Type of Well

Oil Well Gas Well Other

8. Well Name and No.

Kane Springs Fed.10-1

2. Name of Operator

Columbia Gas Development Corporation

9. API Well No.

43-019-31331

3. Address and Telephone No.

P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

11. County or Parish, State

Grand County, Utah

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other Weekly Activity
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

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

12/4/92 Removed bombs - information being processed.

12/1 - 12/8/92 Building production facilities

RECEIVED

DEC 11 1992

DIVISION OF
OIL GAS & MINING

CONFIDENTIAL

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

Signed Wendy A. Desormeaux

Title Regulatory Coordinator

Date 12/8/92

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:



December 15, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find attached the weekly activity report and pit closure summary for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

A rectangular stamp with the word "RECEIVED" in a bold, outlined, sans-serif font.

DEC 17 1992

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation
Kane Springs Federal

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
Kane Springs Fed.10-1

2. Name of Operator
Columbia Gas Development Corporation

9. API Well No.
43-019-31331

3. Address and Telephone No.
P. O. Box 1350, Houston, TX 77251-1350 713/871-3482

10. Field and Pool, or Exploratory Area
Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

11. County or Parish, State
Grand County, Utah

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

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

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

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

12/9/92 - 12/15/92 Building production facilities.

RECEIVED

DEC 17 1992

DIVISION OF
OIL, GAS & MINING

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

Signed Wendy H. DeChateau

Title Regulatory Coordinator

Date 12/15/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Kane Springs Federal

8. Well Name and No.
Kane Springs Fed 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P. O. Box 1350, Houston, Texas 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec.10-T25S-R18E

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

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

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

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

12/8/92 Hauled in track hoe and dozer. 167 tons of bentonite delivered.

12/9/92 Started mixing soil with pit cuttings. Took four samples from pit (SE, SW, NE, & NW corners) to be analyzed.

12/10/92 Mixed and worked 167 tons bentonite into pit. Dressed off top of pit. Work observed and approved by Elmer Duncan - BLM.

Will let pit settle for 30 days, then will install cap.

RECEIVED

DEC 17 1992

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

Signed

Wendy L. DeCineay

Title

Regulatory Coordinator

DIVISION OF

DATE 12/15/92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:



VIA AIRBORNE EXPRESS

RECEIVED

DEC 21 1992

DIVISION OF
OIL GAS & MINING

December 18, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Dear Mr. Jones:

Please find enclosed an original and two copies of Columbia's Completion Report regarding the above-referenced location. Also enclosed are two copies of the logs. We are waiting for our final copy of the directional survey and will submit this to you upon receipt.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

WGD
Enclosures

cc: State of Utah, Office of Natural Resources
Division of Oil, Gas & Mining - Mr. R. J. Firth

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other
 b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RENVR. Other

2. NAME OF OPERATOR
Columbia Gas Development Corporation

3. ADDRESS OF OPERATOR
P.O. Box 1350, Houston, Texas 77251-1350

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface 2333' FSL & 2112' FEL of Sec.10-T25S-R18E
 At top prod. interval reported below 3088' FSL & 3236' FEL
 At total depth 3918' FSL & 3341' FEL

14. PERMIT NO. 43-019-31331 DATE ISSUED 8-19-92

5. LEASE DESIGNATION AND SERIAL NO.
UTU-47858

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

7. UNIT AGREEMENT NAME
Kane Springs Federal

8. FARM OR LEASE NAME
Kane Springs Federal

9. WELL NO.
#10-1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 10-T25S-R18E

12. COUNTY OR PARISH Grand STATE Utah

15. DATE SPUDDED 9-13-92 16. DATE T.D. REACHED 10-31-92 17. DATE COMPL. (Ready to prod.) 11-19-92 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5274.4 GL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 9080MD/8109TVD 21. PLUG BACK T.D., MD & TVD 9080MD/8109TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. ROTARY TOOLS X 25. CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
From 8948' MD/8083' TVD To: 9080' MD/8109' TVD (CNCR)
25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DGWD Gamma Log, LSS 27. WAS WELL CORRED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	Conductor	60'	Driven	---	--
13-3/8"	40	870'	17-1/2	200 sx 35/65 Poz + 230	sx Cl G --
9-5/8	40	5150'	12-1/4	135 sx High Lite + 118	sx Kolite --
7"	29	8948'	8-3/4	30 bbl mud push + 675	sx Salt Bond

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	8658'	9080'	Pkr @ 8450		2-7/8	8483'	8450'

31. PERFORATION RECORD (Interval, size and number)
Preperfed w/1 hole per 3 feet

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.
 DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED
 N/A

33.* PRODUCTION

DATE FIRST PRODUCTION 11-19-92 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) Shut-in (as of 12/17)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11-20-92	24	10/64	→	1272.9	757	46.75	594
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
4445	1200	→	1272.9	757	46.75	41.4	

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

35. LIST OF ATTACHMENTS
Logs, directional survey will follow under separate cover

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

SIGNED Wendy L. Desbarnay TITLE Regulatory Coordinator DATE 12/18/92

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	TOP	
				MEAS. DEPTH	TRUE VERT. DEPTH	
White Rim	1710'	1940'	Porous sandstone w/fresh water; water flows encountered @ 1797' while drilling with air.	Chinle White Rim	820' 1780'	820' 1780'
Cane Creek interval of Paradox Fm.	8890' MD 8069'TVD	Well TD'd in zone	Fractured, overpressured shale, siltstone, and anhydrite containing oil and gas	Cutler Paradox Salt Cane Creek	1940' 4768' 8890'	1940' 4768' 8069'
Core Interval:	8956'MD	8976' MD		TD:	9080'	8109'



RECEIVED

DEC 22 1992

DIVISION OF
OIL, GAS & MINING

December 17, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T258-R18E
Grand County, Utah**

Gentlemen:

Please find attached a Sundry Notice reporting the total amount of test oil sold from the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads 'Wendy G. DesOrmeaux'.

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Alionee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Kane Springs Federal

8. Well Name and No.
Kane Springs Fed.10-1.

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Columbia Gas Development Corporation

3. Address and Telephone No.
P. O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

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

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

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

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

Testing of the above-referenced well was completed on 11/21/92.

Total amount of test oil sold was 2497 bbls.

RECEIVED

DEC 22 1992

DIVISION OF
OIL GAS & MINING

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

Signed Wendy G. DeLamare

Regulatory Coordinator

12/17/92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

COLUMBIA GAS

Development

**VIA FAX**

December 23, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E 43-019-31331
Grand County, Utah

Gentlemen:

The above-referenced well was put on production and flaring begun under the initial 30 day period for new wells at 3:45 PM on 12/22/92. Please find attached a Sundry Notice reporting this.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

Wendy G. DesOrmeaux
Regulatory Coordinator

cc: Mr. Bob Pruitt

FAX COVER SHEET

**COLUMBIA GAS DEVELOPMENT CORP.
P.O. BOX 1350
ONE RIVERWAY
HOUSTON, TX 77251**

December 23, 1992

TO:	MR. RON FIRTH
COMPANY:	STATE OF UTAH, DIV. OF OIL, GAS & MINING
LOCATION:	SALT LAKE CITY, UTAH

NUMBER OF PAGES:	cover + 2
-------------------------	------------------

FROM:	WENDY DESORMEAUX REGULATORY COORDINATOR
LOCATION:	HOUSTON
PHONE NUMBER:	(713) 871-3482
FAX NUMBER:	(713) 871-3485

COMMENTS:	MR. FIRTH, FOLLOWING IS A LETTER AND SUNDRY NOTICE ADVISING YOU OF THE START OF PRODUCTION AND FLARING AT COLUMBIA'S KANE SPRINGS 10-1 WELL. A HARD COPY WILL FOLLOW BY MAIL. HAPPY HOLIDAYS! <i>Wendy</i>
------------------	--

Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

FORM APPROVED

Budget Bureau No. 1004-0135

Expires: March 31, 1993

5. Lease Designation and Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Kane Springs Federal

8. Well Name and No.

Kane Springs Fed.10-1

9. API Well No.

43-019-31331

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well

 Oil Well Gas Well Other

2. Name of Operator

Columbia Gas Development Corporation

3. Address and Telephone No.

P.O. Box 1350, Houston, TX 77251-1350 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2333' FSL & 2112' FEL of Sec.10-T25S-R18E

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

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

The above-referenced well was put on production and flaring begun under the initial 30 day period for new wells at 3:45 PM on December 19, 1992.

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

Signed Wendy L. Redman

Title

Regulatory Coordinator

Date

12/23/92

(This space for Federal or State office use)

Approved by _____

Conditions of approval, if any: _____

Title _____

Date _____

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

*See instruction on Reverse Side



December 23, 1992

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Reference: Columbia Gas Development Corporation
Kane Springs #10-1 43-019-21331
Sec.10-T25S-R18E
Grand County, Utah

Gentlemen:

Please find attached two copies of the directional survey report for the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

DEC 28 1992

DIVISION OF
OIL GAS & MINING



DIRECTIONAL DRILLING INC.

COLUMBIA GAS
GRAND COUNTY UTAH
KANE SPRINGS FEDERAL 10-1

"COMPLETION REPORT"

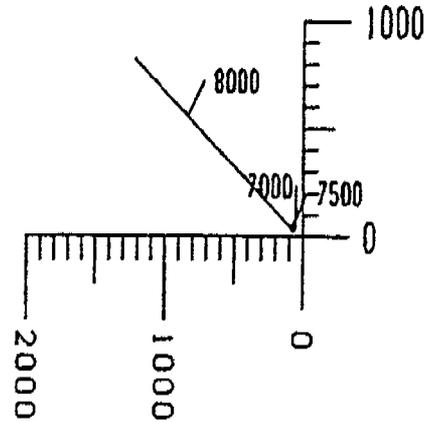
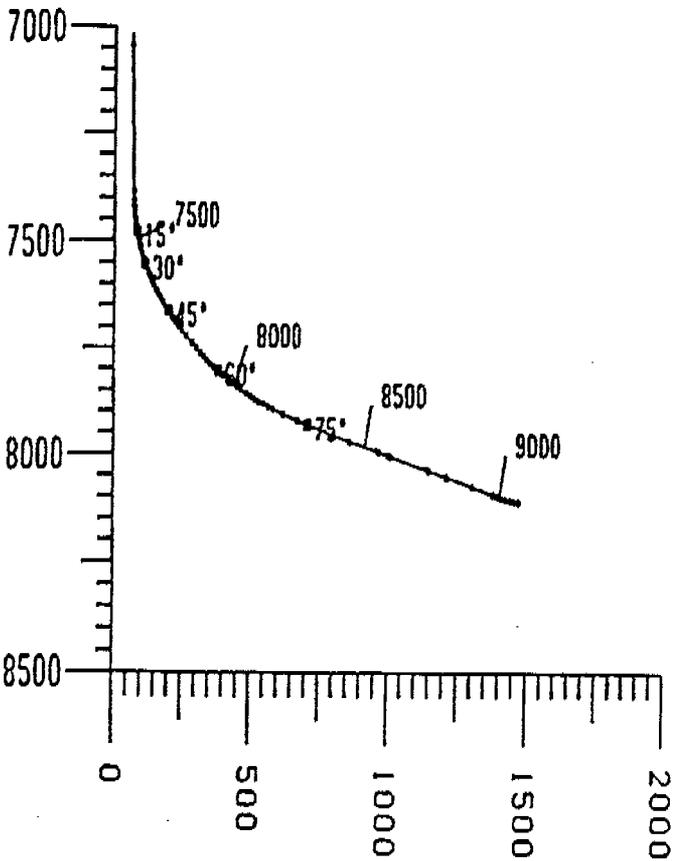
COBB HORIZONTAL TECHNOLOGY
318-237-7070

NORTH



VERTICAL SCALE: 1" = 500'

HORIZONTAL SCALE: 1" = 1000'



WELL INFORMATION:

KOP: 7701' 0.0°
BUILD RATE: 13.5'/100'
PBHL: 2090' FSL & 1917' FWL

PLANE OF VERT SECTn N55.89W

PLOT DATE 12-18-1992

TARGET DETAILS

No	TVD	Lal	Dep

COBB DIRECTIONAL DRILLING \ HORIZONTAL TECHNOLOGY

COLUMBIA GAS
 WINE SPRINGS FEDERAL 10-1

MINIMUM CURVATURE CALCULATIONS

18-DEC-92 Page 1

MEASURED DEPTH (Ft)	INC. Deg	DIR. Deg		TVD (Ft)	VERT. (Ft)	N / S (Ft)		E / W (Ft)		LEASE LINE		CLOSURE		DLEG SEV. /100(Ft)
		FNL (Ft)	FWL (Ft)			AZIMUTH Deg Min	DIST (Ft)							
0.0	0.00	N	0.00 E	0.0	0.0	0.0	0.0	-2917.0	3138.0	N 0 0 E	0	0.00		
100.0	0.30	N	23.80 E	100.0	0.0	0.2	0.1	-2916.8	3138.1	N 23 48 E	0	0.30		
200.0	0.20	N	3.70 W	200.0	0.2	0.7	0.2	-2916.3	3138.2	N 17 2 E	1	0.15		
300.0	0.14	N	38.80 W	300.0	0.4	0.9	0.1	-2916.1	3138.1	N 6 56 E	1	0.12		
400.0	0.50	N	66.70 W	400.0	1.0	1.2	-0.4	-2915.8	3137.6	N 17 3 W	1	0.38		
500.0	0.40	N	30.20 W	500.0	1.7	1.7	-0.9	-2915.3	3137.1	N 29 29 W	2	0.30		
600.0	0.15	N	87.00 W	600.0	2.1	2.0	-1.2	-2915.0	3136.8	N 32 18 W	2	0.34		
700.0	0.14	N	81.10 W	700.0	2.4	2.0	-1.5	-2915.0	3136.5	N 36 52 W	2	0.02		
800.0	0.39	N	67.20 W	800.0	2.8	2.1	-1.9	-2914.9	3136.1	N 41 58 W	3	0.26		
900.0	0.42	N	53.50 W	900.0	3.5	2.5	-2.5	-2914.5	3135.5	N 45 29 W	4	0.10		
1000.0	0.46	N	69.81 W	1000.0	4.3	2.9	-3.2	-2914.1	3134.8	N 48 22 W	4	0.13		
1100.0	0.16	S	58.30 W	1100.0	4.7	2.9	-3.7	-2914.1	3134.3	N 51 46 W	5	0.38		
1200.0	0.23	S	28.11 W	1200.0	4.7	2.7	-3.9	-2914.3	3134.1	N 55 45 W	5	0.12		
1300.0	0.46	S	66.50 W	1300.0	4.9	2.3	-4.4	-2914.7	3133.6	N 61 59 W	5	0.31		
1400.0	0.49	S	69.50 W	1400.0	5.4	2.0	-5.2	-2915.0	3132.8	N 68 33 W	6	0.04		
1500.0	0.47	S	72.00 W	1500.0	5.9	1.7	-5.9	-2915.3	3132.1	N 73 37 W	6	0.03		
1600.0	0.37	S	77.10 W	1600.0	6.4	1.5	-6.6	-2915.5	3131.4	N 76 53 W	7	0.11		
1700.0	0.40	S	70.99 W	1700.0	6.8	1.4	-7.3	-2915.6	3130.7	N 79 25 W	7	0.05		
1800.0	0.54	S	52.29 W	1800.0	7.2	1.0	-8.0	-2916.0	3130.0	N 83 9 W	8	0.21		
1900.0	0.46	S	34.00 W	1900.0	7.3	0.3	-8.6	-2916.7	3129.4	N 87 44 W	9	0.18		
2000.0	0.31	S	37.01 W	2000.0	7.3	-0.2	-9.0	-2917.2	3129.0	S 88 40 W	9	0.15		
2100.0	0.50	S	70.59 W	2100.0	7.6	-0.6	-9.6	-2917.6	3128.4	S 86 35 W	10	0.30		
2200.0	0.57	S	39.70 W	2200.0	7.9	-1.1	-10.3	-2918.1	3127.7	S 83 55 W	10	0.29		
2300.0	0.31	S	46.81 W	2300.0	8.0	-1.7	-10.8	-2918.7	3127.2	S 81 14 W	11	0.26		
2400.1	0.61	S	60.88 W	2400.0	8.3	-2.1	-11.5	-2919.1	3126.5	S 79 34 W	12	0.32		
2500.1	0.54	S	31.41 W	2500.0	8.5	-2.8	-12.2	-2919.8	3125.8	S 77 11 W	12	0.30		
2600.1	0.60	S	57.29 W	2600.0	8.7	-3.5	-12.9	-2920.5	3125.1	S 74 57 W	13	0.26		
2700.1	0.81	S	35.81 W	2700.0	8.9	-4.3	-13.7	-2921.3	3124.3	S 72 33 W	14	0.33		
2800.1	0.53	S	43.90 W	2800.0	9.0	-5.2	-14.4	-2922.2	3123.6	S 70 8 W	15	0.29		
2900.1	0.90	S	45.29 W	2900.0	9.3	-6.1	-15.3	-2923.1	3122.7	S 68 17 W	16	0.37		

DEC 19 1992 03:14PM 0485 P.03
 FRUIT COBB 2 P FUSI INHX
 10:11
 10:11

COBB DIRECTIONAL DRILLING \ HORIZONTAL TECHNOLOGY

LUMBIA GAS
NE SPRINGS FEDERAL 10-1

MINIMUM CURVATURE CALCULATIONS

MEASURED DEPTH (Ft)	INC. Deg	DIR. Deg	TVD (Ft)	VERT. (Ft)	N / S (Ft)	E / W (Ft)	LEASE LINE		CLOSURE		DLEG SEV. /100(Ft)
							FNL (Ft)	FWL (Ft)	AZIMUTH Deg Min	DIST (Ft)	
3000.1	0.70	S 28.32 W	3000.0	9.4	-7.2	-16.2	-2924.2	3121.8	S 66 1 W	18	0.31
3100.1	0.80	S 44.78 W	3100.0	9.4	-8.2	-17.0	-2925.2	3121.0	S 64 7 W	19	0.24
3200.1	0.80	S 27.52 W	3200.0	9.5	-9.3	-17.8	-2926.3	3120.2	S 62 16 W	20	0.24
3300.1	0.90	S 46.27 W	3300.0	9.6	-10.5	-18.7	-2927.5	3119.3	S 60 37 W	21	0.29
3400.1	0.90	S 24.92 W	3400.0	9.6	-11.8	-19.6	-2928.8	3118.4	S 58 59 W	23	0.33
3500.1	0.90	S 42.27 W	3500.0	9.6	-13.1	-20.4	-2930.1	3117.6	S 57 25 W	24	0.27
3600.2	0.99	S 22.32 W	3600.0	9.5	-14.4	-21.3	-2931.4	3116.7	S 55 51 W	26	0.34
3700.2	0.90	S 34.96 W	3700.0	9.4	-15.9	-22.1	-2932.9	3115.9	S 54 15 W	27	0.23
3800.2	0.90	S 11.52 W	3800.0	9.1	-17.3	-22.7	-2934.3	3115.3	S 52 39 W	29	0.37
3900.2	1.10	S 22.28 W	3900.0	8.6	-18.9	-23.2	-2935.9	3114.8	S 50 44 W	30	0.27
4000.2	1.00	S 14.71 W	4000.0	8.1	-20.7	-23.8	-2937.7	3114.2	S 48 58 W	32	0.17
4100.2	1.20	S 21.11 W	4100.0	7.6	-22.5	-24.4	-2939.5	3113.6	S 47 17 W	33	0.23
4200.3	1.12	S 24.47 W	4200.0	7.2	-24.4	-25.1	-2941.4	3112.9	S 45 54 W	35	0.10
4300.3	1.04	S 14.03 W	4300.0	6.7	-26.1	-25.8	-2943.1	3112.2	S 44 36 W	37	0.21
4400.3	1.33	S 23.67 W	4400.0	6.2	-28.1	-26.5	-2945.1	3111.5	S 43 18 W	39	0.35
4500.3	1.14	S 14.86 W	4500.0	5.6	-30.1	-27.2	-2947.1	3110.8	S 42 4 W	41	0.27
4600.3	1.22	S 33.57 W	4600.0	5.3	-32.0	-28.0	-2949.0	3110.0	S 41 15 W	43	0.39
4700.4	1.13	S 25.91 W	4700.0	5.1	-33.7	-29.0	-2950.7	3109.0	S 40 44 W	45	0.18
4800.4	1.62	S 55.58 W	4800.0	5.5	-35.4	-30.6	-2952.4	3107.4	S 40 52 W	47	0.85
4900.4	1.60	S 52.89 E	4900.0	4.6	-37.0	-30.7	-2954.0	3107.3	S 39 39 W	48	2.61
5000.4	0.84	S 24.56 E	5000.0	2.6	-38.5	-29.3	-2955.5	3108.7	S 37 13 W	48	0.95
5100.4	0.40	N 34.71 W	5100.0	2.3	-38.9	-29.1	-2955.9	3108.9	S 36 50 W	49	1.24
5200.4	1.00	N 25.06 E	5200.0	2.8	-37.8	-29.0	-2954.8	3109.0	S 37 27 W	48	0.87
5300.5	1.50	N 15.84 E	5300.0	3.3	-35.8	-28.2	-2952.8	3109.8	S 38 18 W	46	0.54
5400.5	2.00	N 2.71 E	5400.0	4.6	-32.8	-27.8	-2949.8	3110.2	S 40 19 W	43	0.64
5500.6	2.30	N 5.29 E	5500.0	6.5	-29.0	-27.5	-2946.0	3110.5	S 43 30 W	40	0.32
5600.7	2.70	N 4.30 E	5600.0	8.7	-24.7	-27.2	-2941.7	3110.8	S 47 47 W	37	0.40
5700.8	2.80	N 6.91 E	5700.0	11.1	-19.9	-26.8	-2936.9	3111.2	S 53 28 W	33	0.16
5800.9	2.70	N 2.07 W	5800.0	13.7	-15.1	-26.7	-2932.1	3111.3	S 60 36 W	31	0.44
5901.0	3.10	N 9.16 W	5900.0	16.9	-10.0	-27.2	-2927.0	3110.8	S 69 47 W	29	0.54

COBB DIRECTIONAL DRILLING \ HORIZONTAL TECHNOLOGY

COLUMBIA GAS
NE SPRINGS FEDERAL 10-1

MINIMUM CURVATURE CALCULATIONS

MEASURED DEPTH (Ft)	INC. Deg	DIR. Deg	TVD (Ft)	VERT. (Ft)	N / S (Ft)	E / W (Ft)	LEASE LINE		CLOSURE		DLEG SEV. /100(Ft)
							FNL (Ft)	FWL (Ft)	AZIMUTH Deg Min	DIST (Ft)	
6001.2	3.40	N 5.05 W	6000.0	20.7	-4.4	-27.9	-2921.4	3110.1	S 81 4 W	28	0.38
6101.4	3.40	N 8.98 W	6100.0	24.6	1.5	-28.7	-2915.5	3109.3	N 87 1 W	29	0.23
6201.6	3.50	N 8.00 W	6200.0	28.7	7.5	-29.6	-2909.5	3108.4	N 75 50 W	30	0.12
6301.7	3.60	N 14.66 W	6300.0	33.1	13.5	-30.8	-2903.5	3107.2	N 66 16 W	34	0.42
6401.9	3.33	N 18.25 W	6400.0	37.7	19.3	-32.5	-2897.7	3105.5	N 59 14 W	38	0.34
6502.1	2.99	N 31.09 W	6500.0	42.4	24.3	-34.7	-2892.7	3103.3	N 54 59 W	42	0.78
6602.2	2.60	N 35.89 W	6600.0	46.9	28.4	-37.4	-2888.6	3100.6	N 52 48 W	47	0.45
6702.3	2.78	N 53.38 W	6700.0	51.5	31.7	-40.7	-2885.3	3097.3	N 52 5 W	52	0.84
6802.4	2.33	N 65.63 W	6800.0	55.8	33.8	-44.4	-2883.2	3093.6	N 52 43 W	56	0.70
6902.5	1.92	N 78.07 W	6900.0	59.3	35.1	-47.9	-2881.9	3090.1	N 53 48 W	59	0.62
7002.5	1.86	S 88.96 W	7000.0	62.2	35.4	-51.1	-2881.6	3086.9	N 55 18 W	62	0.43
7102.6	2.29	S 69.52 W	7100.0	64.7	34.7	-54.6	-2882.3	3083.4	N 57 33 W	65	0.82
7202.7	2.37	S 59.83 W	7200.0	66.7	33.0	-58.3	-2884.0	3079.7	N 60 29 W	67	0.40
7302.8	2.66	S 54.75 W	7300.0	68.4	30.5	-61.9	-2886.5	3076.1	N 63 47 W	69	0.36
7402.9	3.65	N 87.51 W	7400.0	70.6	28.3	-66.1	-2888.7	3071.9	N 66 49 W	72	2.24
7505.1	19.58	N 55.68 W	7500.0	89.4	37.9	-82.3	-2879.1	3055.7	N 65 18 W	91	16.23
7620.4	37.59	N 54.11 W	7600.0	145.8	71.2	-127.9	-2845.8	3010.1	N 60 53 W	146	15.62
7759.7	49.54	N 55.05 W	7700.0	242.4	126.7	-206.9	-2790.3	2931.1	N 58 31 W	243	8.59
7930.5	59.90	N 54.90 W	7800.0	380.6	205.0	-320.8	-2712.0	2817.2	N 57 25 W	381	6.07
8182.7	72.83	N 55.90 W	7900.0	611.4	335.5	-511.2	-2581.5	2626.8	N 56 43 W	611	5.14
8590.2	75.92	N 54.01 W	8000.0	1006.2	558.6	-837.0	-2358.4	2301.0	N 56 17 W	1006	0.88
9021.3	79.08	N 54.91 W	8100.0	1425.4	798.7	-1180.7	-2118.3	1957.3	N 55 55 W	1425	0.76
9071.0	82.00	N 55.00 W	8108.2	1474.5	826.9	-1220.8	-2090.1	1917.2	N 55 53 W	1474	5.88

172
3A4

2118
1208
2238

20

172
1957
2129

43-019-31331

Kane Springs Federal # 10-1
Cand County, Utah
Bleie Pit Samples



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

December 15, 1992

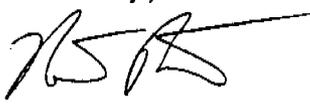
Mr. Randy Bayne
Columbia Gas Development
P.O. Box 1350
Houston, Texas 77251

Dear Mr. Bayne:

Enclosed you will find the results of analysis for three sludge samples that were submitted to Hazen Research on October 21, 1992 by Mr. Michael Cowan of Unibar Energy Services, Inc. The procedures that were used on these samples are as follows:

Parameter	Method
Arsenic	SW846 7062 (modified)
Barium	SW846 6010
Cadmium	SW846 7130
Chromium	SW846 7190
Lead	SW846 7420
Mercury	SW846 7471 (modified)
Selenium	SW846 7742 (modified)
Silver	SW846 7760
Oil & Grease	SW846 9017
Moisture	ASTM D2216-80
Conductivity	EPA 120.1 (modified)
Sodium Absorption Ratio	USDA Handbook 60
Exchangeable Sodium Percentage	USDA Handbook 60

If you have any questions about this, or if I can be of any other help, please contact me.

Sincerely,

Robert Rostad
Manager
General Analytical



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE December 15 1992
HRI PROJECT 002-64K
HRI SERIES NO. J389/92
DATE RECD. 10/21/92
CUST P.O.# None Rec'd

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston TX 77251

REPORT OF ANALYSIS

SAMPLE NO. J398-1
SAMPLE IDENTIFICATION: Sample #1

Arsenic,mg/kg (dry basis)	7.2
Arsenic,mg/kg (as rec'd basis)	5.5
Barium,mg/kg (dry basis)	790
Barium,mg/kg (as rec'd basis)	600
Cadmium,mg/kg (dry basis)	4
Cadmium,mg/kg (as rec'd basis)	3
Chromium,mg/kg (dry basis)	71
Chromium,mg/kg (as rec'd basis)	53
Lead,mg/kg (dry basis)	41
Lead,mg/kg (as rec'd basis)	31
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as rec'd basis)	<0.08
Selenium,mg/kg (dry basis)	<0.5
Selenium,mg/kg (as rec'd basis)	<0.4
Silver,mg/kg (dry basis)	<1
Silver,mg/kg (as rec'd basis)	<0.8
Oil and Grease,mg/kg (as rec'd basis)	175
Moisture,% (as rec'd basis)	24.3
Conductivity,umhos/cm*	45800
Sodium Absorption Ratio**	69.3
Exchangeable Sodium,%**	16.1

By:


Robert Rostad
Laboratory Manager

*Saturated Soil Paste.

**Analysis done on as received sample.



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE December 15 1992
HRI PROJECT 002-64K
HRI SERIES NO. J389/92
DATE RECD. 10/21/92
CUST P.O.# None Rec'd

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston TX 77251

REPORT OF ANALYSIS

SAMPLE NO. J398-2
SAMPLE IDENTIFICATION: Sample #2

Arsenic,mg/kg (dry basis)	5.2
Arsenic,mg/kg (as rec'd basis)	4.2
Barium,mg/kg (dry basis)	430
Barium,mg/kg (as rec'd basis)	350
Cadmium,mg/kg (dry basis)	4
Cadmium,mg/kg (as rec'd basis)	3
Chromium,mg/kg (dry basis)	60
Chromium,mg/kg (as rec'd basis)	48
Lead,mg/kg (dry basis)	36
Lead,mg/kg (as rec'd basis)	29
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as rec'd basis)	<0.08
Selenium,mg/kg (dry basis)	<0.5
Selenium,mg/kg (as rec'd basis)	<0.4
Silver,mg/kg (dry basis)	<1
Silver,mg/kg (as rec'd basis)	<0.8
Oil and Grease,mg/kg (as rec'd basis)	69
Moisture,% (as rec'd basis)	20.1
Conductivity,umhos/cm*	71300
Sodium Absorption Ratio**	75.8
Exchangeable Sodium,%**	35.2

By:

Robert Rostad
Laboratory Manager

*Saturated Soil Paste.

**Analysis done on as received sample.



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE December 15 1992
HRI PROJECT 002-64K
HRI SERIES NO. J389/92
DATE RECD. 10/21/92
CUST P.O.# None Rec'd

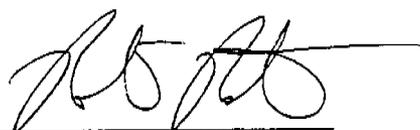
Columbia Gas Development
Randy Bayne
PO Box 1350
Houston TX 77251

REPORT OF ANALYSIS

SAMPLE NO. J398-3
SAMPLE IDENTIFICATION: Sample #3

Arsenic,mg/kg (dry basis)	7.3
Arsenic,mg/kg (as rec'd basis)	5.3
Barium,mg/kg (dry basis)	3860
Barium,mg/kg (as rec'd basis)	2820
Cadmium,mg/kg (dry basis)	6
Cadmium,mg/kg (as rec'd basis)	4
Chromium,mg/kg (dry basis)	65
Chromium,mg/kg (as rec'd basis)	47
Lead,mg/kg (dry basis)	75
Lead,mg/kg (as rec'd basis)	54
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as rec'd basis)	<0.07
Selenium,mg/kg (dry basis)	<0.5
Selenium,mg/kg (as rec'd basis)	<0.4
Silver,mg/kg (dry basis)	<1
Silver,mg/kg (as rec'd basis)	<0.7
Oil and Grease,mg/kg (as rec'd basis)	776
Moisture,% (as rec'd basis)	27.1
Conductivity,umhos/cm*	131000
Sodium Absorption Ratio**	282
Exchangeable Sodium,%**	3.68

By:


Robert Rostad
Laboratory Manager

*Saturated Soil Paste.

**Analysis done on as received sample.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

December 28, 1992

Richard A. Spell, Manager
Environmental, Safety and Regulatory
Columbia Gas Development Corporation
P.O. Box 1350
Houston, Texas 77251-1350

Dear Mr. Spell:

Re: Administrative Approval - Gas Flaring or Venting, Kane Springs Federal No. 10-1 Well, Section 10, Township 25 South, Range 18 East, Grand County, Utah

Pursuant to Utah Admin. R. 649-3-20-3, Columbia Gas Development Corporation ("Columbia") is authorized to flare gas from the referenced well at an unrestricted rate for up to 30 days of testing or no more than 50 MMCF of gas, whichever is less, starting with the date of first production. This approval is in response to Columbia's letter of request dated December 23, 1992.

Flaring of gas in an amount greater than provided for by this administrative approval requires the approval of the Board of Oil, Gas and Mining in accordance with Utah Admin. R. 649-3-20-5. Columbia filed a petition on December 23, 1992, requesting an exception pursuant to Utah Admin. R. 649-3-20 for authorization by the Board for additional flaring. This matter is scheduled for hearing on January 27, 1993.

If you have questions regarding this administrative approval, contact R.J. Firth at (801) 538-5340.

Best regards,


Dianne R. Nielson
Director

lsj

cc: R. J. Firth
Well file

Division of Oil, Gas and Mining
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File Kone Spring Fed 10-1 Suspense Other

(Location) Sec 10 Twp 25s Rng 18E (Return Date) _____
(API No.) 43-019-31331 (To - Initials) _____

1. Date of Phone Call: 1-6-93 Time: 1:15 pm

2. DOGM Employee (name) Jim Thompson (Initiated Call)
Talked to:

Name Wendi (Initiated Call) - Phone No. ()

of (Company/Organization) Columbia Oil & Gas

3. Topic of Conversation: Warning information on Sunday
Notice submitted to DOGM.

4. Highlights of Conversation: Sunday notice should
read.

13 3/8" casing weight 61 H's per foot
13 3/8" casing set @ 874 ft.

We'll re submit Sunday w/ correct information.



January 6, 1992

State of Utah
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

Attention: Mr. Frank Matthews

Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah

Dear Mr. Matthews:

Please find attached a Sundry Notice correcting the casing weight and depth set for the 13-3/8" casing as noted on the Completion Report.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

JAN 11 1993

DIVISION OF
OIL GAS & MINING

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

6. Lease Designation and Serial Number

UTU-47858

7. Indian Allottee or Tribe Name

N/A

8. Unit or Communitization Agreement

Kane Springs Federal Unit

9. Well Name and Number

Kane Springs Federal 10-1

10. API Well Number

43-019-31331

11. Field and Pool, or Wildcat

Wildcat

1. Type of Well

- Oil Well Gas Well Other (specify)

2. Name of Operator

Columbia Gas Development Corporation

3. Address of Operator

P.O. Box 1350, Houston, Texas 77251-1350

4. Telephone Number

713/871-3400

5. Location of Well

Footage : 2333' FSL & 2112' FEL

County : Grand

QQ, Sec. T., R., M. : NW SE Sec. 10-T25S-R18E

State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate Date Work Will Start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Correction to casing information on</u> | |

Completion Report

Date of Work Completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.

* Must be accompanied by a cement verification report.

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

The weight and depth set of the 13-3/8" casing was incorrect on the recently submitted Completion Report. The following is the correct information:

13-3/8" - 61# - set at 874'.

RECEIVED

JAN 11 1993

DIVISION OF

OIL, GAS & MINING

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

Name & Signature

Wendy G. DesOrmeaux

Wendy G. DesOrmeaux

Title

Regulatory Coord.

Date

1/6/93

(State Use Only)



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
P. O. Box 970
Moab, Utah 84532

3160
(U-47858)
(UT-065)

JAN 26 1993

Mr. Richard Spell
Columbia Gas Development Corporation
P. O. Box 1350
Houston, Texas 77251-1350

Re: Authorization to Flare Gas NTL-4A
Kane Springs Federal 10-1 43-019-31331
Lease U-47858
Section 10 T. 25 S., R. 18 E.
Grand County, Utah

Dear Mr. Spell:

We have reviewed the economic data supporting Columbia's request for natural gas flaring approval under NTL-4A from the Kane Springs Federal No. 10-1 well. Despite the higher volume of gas production seen from this well, the field does not yet produce enough gas to justify the expense of installing a pipeline and processing plant.

Since the economics of gas recovery must be viewed on a field wide basis, this approval will run concurrently with the NTL-4A approval for the other two wells in the field. Therefore, Columbia is approved to flare gas from the Kane Springs Federal No. 10-1 well until May 11, 1993, under the following conditions:

1. Should economic conditions substantially change favoring marketing of the gas during the term of this approval, the Bureau of Land Management (BLM) will revise its position authorizing gas flaring. Such conditions affecting economics could include gas price increase, reduction in costs to drill wells, revising the gas pipeline route, or any other circumstance that would act to lessen gas marketing costs or reduce operating costs.

If Columbia perceives that a gas sales contract will not be negotiated and a pipeline will not be constructed by May 11, 1993, a new application for gas flaring shall be submitted prior to the expiration of this approval.

2. As additional wells are brought on line, they will be automatically approved to flare during the initial thirty day test period. However, Columbia will be required to submit a request to continue extended flaring in accordance with NTL-4A.

-2-

3. All gas produced shall be measured in accordance with Onshore Oil and Gas Order No. 5.
4. All gas not being used on the lease shall be flared in a pit designed to reduce the flare from sight of the general public.
5. BLM shall be kept apprised of negotiations regarding the gas pipeline.
6. BLM shall be kept apprised of feasibility studies to reinject the gas or re-route the proposed pipeline that could significantly change the economics favoring the conservation of the natural gas.

If you have any questions regarding these conditions of approval, please contact Eric Jones at (801) 259-6111.

Sincerely,

/S/ WILLIAM C. STRINGER

Assistant District Manager
Mineral Resources

cc: UT-068, BLM Grand Resource Area
UT-922, BLM Utah State Office ✓
State of Utah
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180



March 17, 1993

RECEIVED

MAR 22 1993

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

**DIVISION OF
OIL GAS & MINING**

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find attached a Sundry Notice and results of analyses of samples taken from the blooie pit on the above-referenced well.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UTU-47858
2. Name of Operator Columbia Gas Development Corporation	6. If Indian, Allottee or Tribe Name N/A
3. Address and Telephone No. P. O. Box 1350, Houston, Texas 77251-1350	7. If Unit or CA, Agreement Designation Kane Springs Federal
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2333' FSL & 2112' FEL of Sec. 10-T25S-R18E	8. Well Name and No. Kane Springs Fed. #10-1
	9. API Well No. 43-019-31331
	10. Field and Pool, or Exploratory Area Wildcat
	11. County or Parish, State Grand County, Utah

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

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

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

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

Attached please find the results of analysis for samples from the blooie pit of the above-referenced well submitted on 12/22/92.

RECEIVED

MAR 22 1993

DIVISION OF
OIL GAS & MINING

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

Signed Wendy L. DeCimeaux Title Regulatory Coordinator Date 3/17/93

(This space for Federal or State office use)

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

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



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

March 1, 1993

Mr. Randy Bayne
Columbia Gas Development
P.O. Box 1350
Houston, Texas 77251

Dear Mr. Bayne:

Enclosed you will find the results of analysis for three sludge samples that were submitted to Hazen Research on December 22, 1992 by Mr. Michael Cowan of Unibar Energy Services, Inc. The procedures that were used on these samples are as follows:

Parameter	Method
Arsenic	SW846 7062 (modified)
Barium	SW846 6010
Cadmium	SW846 7130
Chromium	SW846 7190
Lead	SW846 7420
Mercury	SW846 7471 (modified)
Selenium	SW846 7742 (modified)
Silver	SW846 7760
Oil & Grease	SW846 9017
Moisture	ASTM D2216-80
Conductivity	EPA 120.1 (modified)
Sodium Absorption Ratio	USDA Handbook 60
Exchangeable Sodium Percentage	USDA Handbook 60

Please note that we were not able to determine the Sodium Absorption Ratio or the Exchangeable Sodium Percentage on this set of samples. The analyses were repeated for each sample, however the results were very unusual not repeatable. The organic in the sample may have caused the observed problems, but we are not sure. There is no charge for these two analyses.

If you have any questions about this, or if I can be of any other help, please contact me.

Sincerely,

Robert Rostad
Manager
General Analytical



Hazen Research, Inc.
4601 Indiana St. - Golden, Colo. 80403
Tel: (303) 279-4501 - Telex 45-860
FAX: (303) 278-1528

DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-1
SAMPLE IDENTIFICATION: Sample #1

Arsenic,mg/kg (dry basis)	4.3
Arsenic,mg/kg (as received basis)	3.8
Barium,mg/kg (dry basis)	750
Barium,mg/kg (as received basis)	660
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	66
Chromium,mg/kg (as received basis)	58
Lead,mg/kg (dry basis)	23
Lead,mg/kg (as received basis)	20
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	246
Moisture,% (as received basis)	12.3
Conductivity,umhos/cm*	28000
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By: 

Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-2
SAMPLE IDENTIFICATION: Sample #2

Arsenic,mg/kg (dry basis)	3.7
Arsenic,mg/kg (as received basis)	3.3
Barium,mg/kg (dry basis)	450
Barium,mg/kg (as received basis)	400
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	160
Chromium,mg/kg (as received basis)	140
Lead,mg/kg (dry basis)	52
Lead,mg/kg (as received basis)	46
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	95
Moisture,% (as received basis)	11.0
Conductivity,umhos/cm*	24100
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By:


Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-3
SAMPLE IDENTIFICATION: Sample #3

Arsenic,mg/kg (dry basis)	3.7
Arsenic,mg/kg (as received basis)	3.4
Barium,mg/kg (dry basis)	440
Barium,mg/kg (as received basis)	400
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	150
Chromium,mg/kg (as received basis)	130
Lead,mg/kg (dry basis)	42
Lead,mg/kg (as received basis)	38
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	267
Moisture,% (as received basis)	9.3
Condustivity,umhos/cm*	16900
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By: 

Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

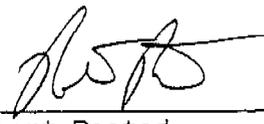
DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-4
SAMPLE IDENTIFICATION: SE Corner

Arsenic,mg/kg (dry basis)	2.6
Arsenic,mg/kg (as received basis)	2.3
Barium,mg/kg (dry basis)	41000
Barium,mg/kg (as received basis)	36700
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	200 ✓
Chromium,mg/kg (as received basis)	180
Lead,mg/kg (dry basis)	50
Lead,mg/kg (as received basis)	44
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	33800 ✓
Moisture,% (as received basis)	10.5
Condustivity,umhos/cm*	179000
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By: 

Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc. -
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

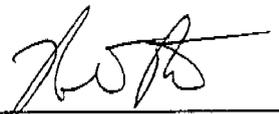
Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-5
SAMPLE IDENTIFICATION: SW Corner

Arsenic,mg/kg (dry basis)	3.2
Arsenic,mg/kg (as received basis)	2.9
Barium,mg/kg (dry basis)	65500
Barium,mg/kg (as received basis)	58400
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	190 ✓
Chromium,mg/kg (as received basis)	170
Lead,mg/kg (dry basis)	54
Lead,mg/kg (as received basis)	49
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	18000 ✓
Moisture,% (as received basis)	10.8
Conductivity,umhos/cm*	91000
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By:


Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

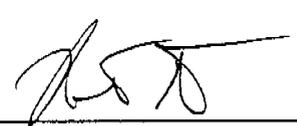
DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-6
SAMPLE IDENTIFICATION: NE Corner

Arsenic,mg/kg (dry basis)	5.5
Arsenic,mg/kg (as received basis)	4.9
Barium,mg/kg (dry basis)	51800
Barium,mg/kg (as received basis)	46300
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	280
Chromium,mg/kg (as received basis)	250
Lead,mg/kg (dry basis)	49
Lead,mg/kg (as received basis)	43
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	12100
Moisture,% (as received basis)	10.5
Condustivity,umhos/cm*	187000
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By: 

Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-7
SAMPLE IDENTIFICATION: NW Corner

Arsenic,mg/kg (dry basis)	4.5
Arsenic,mg/kg (as received basis)	4.0
Barium,mg/kg (dry basis)	48400
Barium,mg/kg (as received basis)	43200
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	160
Chromium,mg/kg (as received basis)	140
Lead,mg/kg (dry basis)	33
Lead,mg/kg (as received basis)	30
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	19800
Moisture,% (as received basis)	10.8
Conduivity,umhos/cm*	123000
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By: 

Robert Rostad
Laboratory Manager

*Saturated Soil Paste



Hazen Research, Inc.
4601 Indiana St. • Golden, Colo. 80403
Tel: (303) 279-4501 • Telex 45-860
FAX: (303) 278-1528

DATE March 1, 1993
HRI PROJECT 002-36L
HRI SERIES NO. L378/92
DATE REC'D. 12/22/92
CUST P.O.#

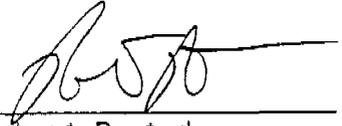
Columbia Gas Development
Randy Bayne
PO Box 1350
Houston, TX 77251

REPORT OF ANALYSIS

SAMPLE NO. L378-8

SAMPLE IDENTIFICATION: Unidentified Sample (in small glass jar) *Center.*

Arsenic,mg/kg (dry basis)	3.8
Arsenic,mg/kg (as received basis)	3.4
Barium,mg/kg (dry basis)	53000
Barium,mg/kg (as received basis)	47700
Cadmium,mg/kg (dry basis)	<5
Cadmium,mg/kg (as received basis)	<4
Chromium,mg/kg (dry basis)	150
Chromium,mg/kg (as received basis)	130
Lead,mg/kg (dry basis)	35
Lead,mg/kg (as received basis)	31
Mercury,mg/kg (dry basis)	<0.1
Mercury,mg/kg (as received basis)	<0.09
Selenium,mg/kg (as dry)	<0.5
Selenium,mg/kg (as received basis)	<0.4
Silver,mg/kg (dry basis)	<5
Silver,mg/kg (as received basis)	<4
Oil and Grease,mg/kg (as rec'd basis)	23700
Moisture,% (as received basis)	10.1
Conductivity,umhos/cm*	193000
Sodium Absorption Ratio	NA
Exchangeable Sodium Percentage	NA

By: 

Robert Rostad
Laboratory Manager

*Saturated Soil Paste



RECEIVED

APR 13 1993

DIVISION OF
OIL GAS & MINING

April 12, 1993

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs Federal #10-1
Sec.10-T25S-R18E
Grand County, Utah**

Gentlemen:

Please find attached a Sundry Notice reporting a 10 bbl oil spill at the above-referenced location.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script that reads "Wendy G. DesOrmeaux".

Wendy G. DesOrmeaux
Regulatory Coordinator

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Kane Springs Federal Unit

8. Well Name and No.
Kane Springs Fed. 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Grand County, Utah

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Columbia Gas Development Corporation

3. Address and Telephone No.
P.O. Box 1350, Houston, TX 77251 713/871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

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

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

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

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

DATE & TIME OF SPILL: 4/9/93, 11:30 AM

SPILL TYPE & AMOUNT: 10 bbls oil

CAUSE OF SPILL: Separator carryover during paraffin cutting operations

DESCRIPTION: High level shut-downs were locked out during paraffin cutting operations. The vessels plugged with paraffin causing a 10 bbl carryover to the flare pit where the oil burned off. No offsite impact.

RECEIVED

APR 15 1993

DIVISION OF

OIL GAS & MINING
4/12/93

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

Signed Wendy A. Deslauriers

Title Regulatory Coordinator

Date

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:



United States Department of the Interior

BUREAU OF LAND MANAGEMENT



IN REPLY REFER TO:

Moab District
P. O. Box 970
Moab, Utah 84532

RECEIVED

APR 26 1993

DIVISION OF
OIL GAS & MINING

APR 26 1993

3160
(U-67755A)
(U-65971)
(U-53626)
(U-47858)
(UT-065)

Mr. Richard Spell
Columbia Gas Development Corporation
P. O. Box 1350
Houston, Texas 77251-1350

Re: Authorization to Flare Gas Under the Authority of NTL-4A
Kane Springs Federal Wells 27-1, 19-1A ST and 10-1

Dear Mr. Spell: *43-019-31331*
Sec 10 T25S, R18E

This letter is in response to your April 1, 1993, request for continuation of approval to flare gas from the above captioned wells pursuant to NTL-4A. We have incorporated recent changes (e.g., costs and production of the 10-1 well and increase in market gas price) into the economic analysis we did in January of 1992. These changes do not appreciably alter the economic scenario. Our analysis concurs that to capture the gas from these wells remains a negative economic pursuit.

Therefore, we hereby grant a six month extension, through October 11, 1993, to the NTL-4A approval for the subject wells with the following conditions:

1. Should economic conditions substantially change favoring marketing of the gas during the term of this approval, the BLM will revise its position authorizing gas flaring. Such conditions affecting economics could include gas price increase, reduction in costs to drill wells, revising the gas pipeline route, or any other circumstance that would act to lessen gas marketing costs or reduce operating costs.

If Columbia perceives that a gas sales contract will not be negotiated and a pipeline will not be constructed by October 11, 1993, a new application for gas flaring shall be submitted prior to the expiration of this approval.

2. As additional wells are brought on line, they will be automatically approved to flare during the initial thirty day test period. However, Columbia will be required to submit a request to continue extended flaring in accordance with NTL-4A.

3. All gas produced shall be measured in accordance with Onshore Oil and Gas Order No. 5.

4. All gas not being used on the lease shall be flared in a pit designed to reduce the flare from sight of the general public.
5. BLM shall be kept apprised of negotiations regarding the gas pipeline.
6. BLM shall be kept apprised of feasibility studies to reinject the gas or re-route the proposed pipeline that could significantly change the economics favoring the conservation of the natural gas.

If you have any questions regarding these conditions of approval, please contact Eric Jones at (801) 259-6111.

Sincerely,

/S/ WILLIAM C. STRINGER

Assistant District Manager
Mineral Resources

cc: UT-068, Grand Resource Area
UT-922, Utah State Office
Mr. R. J. Firth ✓
State of Utah
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180



April 29, 1993

Bureau of Land Management
Attn: Eric Jones
82 E. Dogwood
Moab, UT 84532

State of Utah
Attn: R. J. Firth
355 W. N. Temple
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203

**Reference: Columbia Gas Development Corporation
Kane Springs Federal #19-1A ST
Kane Springs Federal #10-1
Grand County, Utah**

Gentlemen:

Pursuant to NTL- 2B, please find attached Sundry Notices detailing produced water disposal information on the Kane Springs Federal #19-1A ST and proposed water disposal plans for the Kane Springs Federal #10-1.

Should you have any questions or require additional information, please contact me at 713/871-3400.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION


Wendy G. DesOrmeaux
Regulatory Coordinator

RECEIVED

MAY 03 1993

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

Kane Springs Federal Unit

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.

Kane Springs Fed. #10-1

2. Name of Operator
Columbia Gas Development Corporation

9. API Well No.

43-019-31331

3. Address and Telephone No.
P. O. Box 1350, Houston, Texas 77251-1350

10. Field and Pool, or Exploratory Area

Wildcat

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec.10-T25S-R18E

11. County or Parish, State

Grand County, Utah

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

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

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

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

At this time, the above-referenced well produces no water. This Sundry is being submitted only for notification of disposal plans if and when water is produced. A 400 bbl welded steel tank has been set on location for storage of future water production. All produced water will be disposed of at West Hazmat's disposal well, a state approved facility, located in Sec.20-T30S-R25E, San Juan County, Utah. A water analysis will be submitted as required.

RECEIVED

MAY 03 1993

DIVISION OF
OIL, GAS & MINING

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

Signed Wendy N. Dolan

Title Regulatory Coordinator

Date 4/29/93

(This space for Federal or State office use)

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

COLUMBIA GAS

Development



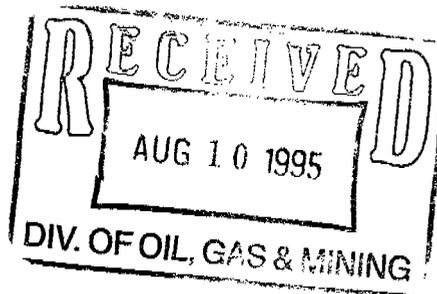
August 7, 1995

VIA AIRBORNE EXPRESS

Bureau of Land Management
82 E. Dogwood
Moab, Utah 84532

Attention: Eric Jones

Reference: NTL-4A Flaring Extension
Columbia Gas Development Corporation
Kane Springs Federal Unit
Wells No. 25-19-34-1, 27-1, 19-1A ST, 16-1 and
10-1
Grand County, Utah



*42-019-31331
Sec 10, T25S, R10E*

Dear Mr. Jones:

Columbia Gas Development Corporation (CGDC) respectfully requests an additional one year extension under NTL-4A to flare or vent associated gas produced from the above-referenced wells.

Currently, the five wells on federal land within the Unit are producing a total of approximately 293 BOPD and 202 MCF of gas per day. A graph displaying the cumulative production curves through July 1, 1995, for the five wells is attached. We anticipate that the production from the wells will continue to decline. CGDC will continue to periodically perform well work which will result in temporary increases in the oil and gas production rates, as evidenced by the graph.

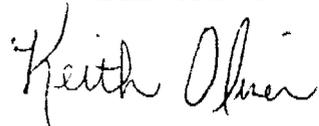
During the period of the one year extension, CGDC does not anticipate drilling any additional wells or attempting any redrilling or recompletion of the non-producing wells within the Unit.

Since it is the goal of the BLM, the Utah Board of Oil, Gas, and Mining, and CGDC to have both the BLM's and State of Utah's flaring authorizations be concurrent and essentially identical, we request that you communicate your decision to Mr. R. J. Firth of the Utah Division of Oil, Gas and Mining prior to September 1, 1995, so that the staff may advise the Board of your decision at their September meeting.

Should you have any questions, or require additional information, please contact either myself, at 713/871-3338, Wendy DesOrmeaux at 713/871-3482.

Very truly yours,

COLUMBIA GAS DEVELOPMENT CORPORATION

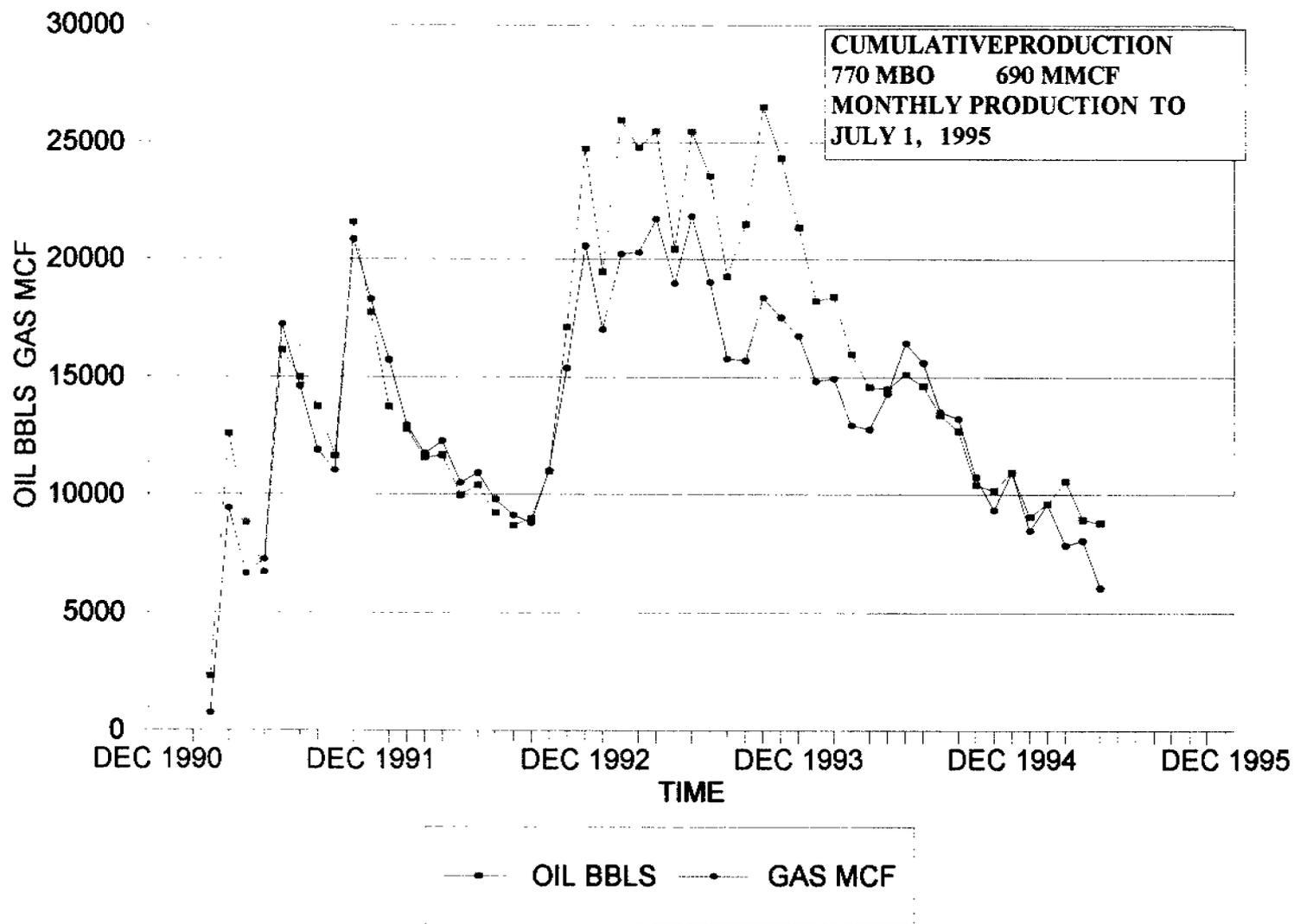
A handwritten signature in cursive script that reads "Keith Oliver".

Keith Oliver
Regulatory Clerk

KTO
Attachments

cc: R. J. Firth; Division of Oil, Gas & Mining
Bob Pruitt; Pruitt, Gushee & Bachtell

KANE SPRINGS TOTAL PRODUCTION GRAND COUNTY, UTAH



MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

SONJA ROLFES
COLUMBIA GAS DEVELOPMENT
PO BOX 1350
HOUSTON TX 77251

UTAH ACCOUNT NUMBER: N5035

REPORT PERIOD (MONTH/YEAR): 6 / 96

AMENDED REPORT (Highlight Changes)

Well Name API Number	Entity	Location	Producing Zone	Well Status	Days Oper	Production Volumes		
						OIL(BBL)	GAS(MCF)	WATER(BBL)
GOVT EVELYN CHAMBERS #1 4303730572	07100	31S 24E 6	ISMY			- 1126467		
GOVT EVELYN CHAMBERS #2 4303730612	07100	31S 24E 5	ISMY			- 1126467		
FEDERAL 33-8-N 4304731787	10760	06S 21E 33	GRRV			- 1137116		
COWDEN 31-3-C 4304731768	10761	06S 21E 31	GRRV			- 1131736		
ALTA #5-1-B 4304731776	10771	07S 21E 5	GRRV			- FEE	(bond OK)	
FEDERAL 33-6-F 4304731769	10779	06S 21E 33	SE NW GRRV			- 1128212		
FEDERAL 33-3-J 4304731804	10787	06S 21E 33	NW SE GRRV			- 1128212		
FEDERAL 33-7-L 4304731844	10915	06S 21E 33	NW SE GRRV			- 1150687	C.A. 11260783	
ALTA 5-2-C 4304731843	10916	07S 21E 5	GRRV			- FEE	(bond OK)	
KANE SPRINGS FEDERAL 27-1 4301931310	11180	25S 19E 27	CNCR			- 1165971	Kane Springs Unit	
KANE SPRINGS FEDERAL 19-1A 4301931324	11353	26S 20E 19	CNCR			- 112653626	Kane Springs Unit	
KANE SPRINGS FEDERAL 28-1 4301931325	11354	25S 19E 28	CNCR			- 1150678	Kane Springs Unit / Non PA	
KANE SPRINGS FEDERAL 10-1 4301931331	11414	25S 18E 10	CNCR			- 112647858	Kane Springs Unit	
TOTALS								

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.

Date: _____

Name and Signature: _____

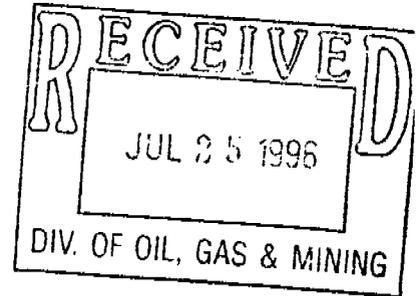
Telephone Number: _____



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3100
U-968 et al
(UT-932)

JUL 23 1996

NOTICE

Aviara Energy Corporation : Oil and Gas
P.O. Box 1350 : U-968 et al
Houston, Texas 77251-1350 :

Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Columbia Gas Development Corporation to Aviara Energy Corporation on Federal oil and gas leases.

For our purposes, the name change is recognized effective May 1, 1996 (Secretary of State's approval date).

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator is required by our Field Offices, you will be contacted by them.

Due to the name change, the name of the principal on the bond is required to be changed from Columbia Gas Development Corporation to Aviara Energy Corporation on Bond No. U-391050-16RR (BLM No. CO0356). A rider effecting this change has been submitted to the Colorado State Office of the BLM, which holds this nationwide bond.

ROBERT LOPEZ

Group Leader,
Minerals Adjudication Group

Enclosure

Exhibit (1 p.)

bc: Lisha Cordova, State of Utah, Division of Oil, Gas and Mining, P.O. Box 145801, Salt Lake City, Utah 84114-5801
MMS-Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217
Moab District Office
Vernal District Office
Teresa Thompson (UT-931)
Irene Anderson (UT-932)

Exhibit of Leases

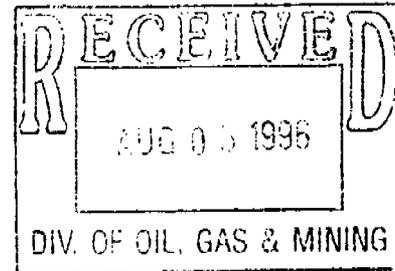
U-968	U-52277	UTU-65329
U-6911	U-52641	UTU-65795
U-15051	U-53624	UTU-65971
U-26467	U-53626	UTU-65972
U-28212	U-54037	UTU-65973
U-31736	U-55510	UTU-66020
U-34023	U-58517	UTU-66025
U-37116	U-60530	UTU-66849
U-46693	U-61182	UTU-67132
U-46697	U-61588	UTU-67552
U-47858	U-62181	UTU-67558
U-49964	U-62679	UTU-67854
U-50393	U-62832	UTU-68116
U-50678	U-62833	UTU-68117
U-50683	U-62906	UTU-68118
U-50687	U-63127	UTU-68122
U-51239	U-63128	UTU-68232
U-51636	UTU-64538	UTU-68342
U-51826	UTU-64927	UTU-69029
U-60780 (CA)	U-60783 (CA)	UTU-73405
UTU-67755X (Kane Springs Unit)		

Aviara Energy Corporation

VIA AIRBORNE EXPRESS

2 August 1996

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



Re: Notification of Name Change from "Columbia Gas Development Corporation" to "Aviara Energy Corporation".

Dear Sirs;

Attached please find documents relating to our company name change from "Columbia Gas Development Corporation" to "Aviara Energy Corporation". I have attached our surety bond rider showing the name change of the principal as well as documents relating to the Corporate name change. These Corporate name change documents contain a Certificate of Corporate Resolution, a Certificate of Amendment of Certificate of Incorporation by the Secretary of State of the State of Delaware evidencing a change of name effective April 30, 1996 from "Columbia Gas Development Corporation" to "Aviara Energy Corporation" and an amended Certificate of Incumbency in accordance with the regulations concerning qualifications of corporations holding Federal leases. I have also attached a list of wells and their locations that will be affected by the name change.

We hereby formally request your acceptance of this rider, and thus, our name change. Please sign the rider and return the appropriate copies to Aviara Energy Corporation (attn: Mr. Dean Roy). Also, please have your office make the necessary changes in your records to reflect this name change at this time.

Should you have questions or require additional information, please feel free to call me at (713) 871-3631. Thank you.

Respectfully,


Donny W. Worthington
Manager, Environmental, Safety & Regulatory

DWW/
attachments:

One Riverway, P.O. Box 1350, Houston, Texas 77251-1350 Telephone (713) 871-3400

UTAH

GRAND COUNTY

KANE SPRINGS FIELD

LOCATION

Kane Springs Federal #10-1	10-25S-18E
Kane Springs Federal Unit #16-1	16-25S-18E
Kane Springs Federal #19-1A	19-26S-20E
Kane Springs Federal #27-1	27-25S-19E
Kane Springs Federal #34-1	34-25S-19E
<i>Kane Springs Fed. 28-1</i>	<i>28-25S-19E</i>
<i>Kane Springs Fed. 20-1</i>	<i>20-26S-19E</i>

SAN JUAN COUNTY

LISBON FIELD

Government Evelyn Chambers #1 (T&Ad)
Government Evelyn Chambers #2 (T&Ad)

UINTAH COUNTY

HORSESHOE BEND FIELD

WELL

LOCATION

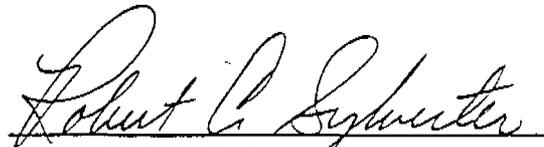
Alta 5-1-B	5-7S-21E
Alta 5-2-C	5-7S-21E
Cowden 31-3-C	31-6S-21E
Federal 33-3-J	33-6S-21E
Federal 33-6-F	33-6S-21E
Federal 33-7-L	33-6S-21E
Federal 33-8-N	33-6S-21E

CERTIFICATE

I, Robert C. Sylvester, Assistant Secretary of Aviara Energy Corporation, a corporation organized and existing under the laws of the State of Delaware, do hereby certify that the attached document titled Certificate of Amendment of Certificate of Incorporation is a true and correct copy of the Certificate of Amendment of Certificate of Incorporation filed in the Secretary of State of the State of Delaware's office on April 30, 1996.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of said Corporation this

5th day of July, 1996.



Robert C. Sylvester
Assistant Secretary

CORPORATE SEAL

Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "COLUMBIA GAS DEVELOPMENT CORPORATION", CHANGING ITS NAME FROM "COLUMBIA GAS DEVELOPMENT CORPORATION" TO "AVIARA ENERGY CORPORATION", FILED IN THIS OFFICE ON THE THIRTIETH DAY OF APRIL, A.D. 1996, AT 1:15 O'CLOCK P.M.



A handwritten signature in cursive script, reading "Edward J. Freel".

Edward J. Freel, Secretary of State

0735923 8100

960125685

AUTHENTICATION:

DATE:

7928485

05-01-96

DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 01:15 PM 04/30/1996
960124621 - 735923

CERTIFICATE OF AMENDMENT
OF
CERTIFICATE OF INCORPORATION
OF
COLUMBIA GAS DEVELOPMENT CORPORATION

Columbia Gas Development Corporation (the "Corporation"), a corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware,

DOES HEREBY CERTIFY:

FIRST: That the Certificate of Incorporation of Columbia Gas Development Corporation is amended by amending Article First thereof to read in its entirety as follows:

"FIRST: The name of the corporation (hereinafter called "the Corporation") is Avlara Energy Corporation."

SECOND: That said amendment was duly adopted in accordance with the provisions of §242 of the General Corporation Law of the State of Delaware and has been consented to in writing by the sole stockholder in accordance with §228 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said Columbia Gas Development Corporation has caused this Certificate to be signed by Larry J. Bainter, its Treasurer this 29th day of April 1996.

Vice President
[Signature]

COLUMBIA GAS DEVELOPMENT CORPORATION

By: *[Signature]*
Name: Larry J. Bainter
~~Secretary~~

CERTIFICATE

The undersigned hereby certifies that he is Assistant Secretary of Aviara Energy Corporation, a Delaware corporation (the "Corporation"), that on the 19th day of June, 1996 by Unanimous Consent of the Board of Directors of the Corporation in Lieu of Special Meeting, pursuant to Section 141(f) of the Delaware Corporation Law, the following resolutions were adopted, with the same force and effect as though adopted at a Special Meeting of the Board of Directors of the Corporation duly called and held, that such resolutions are now in full force and effect, and that said resolutions have not been amended or rescinded:

RESOLVED, that, the Chairman and Chief Executive Officer, the President and Chief Operating Officer, the Vice Presidents and the Secretary of the Corporation, be and each of them is hereby authorized and empowered, without the joinder of any other officer of the Corporation, to execute for and on behalf of the Corporation, any and all bids for leases from the United States of America, through the Minerals Management Service (Department of Interior), of any tract or tracts owned by the United States of America, located in either onshore or offshore areas, including tracts in the Outer Continental Shelf, as may at any time, and from time to time, heretofore have been offered or hereafter may be offered for lease by the United States of America, all on such terms and conditions as may be specified in any such offer to lease and on such terms and conditions and for such consideration as the aforementioned officers of the corporation, or any one of them, may deem proper and advisable; and to further execute on behalf of the Corporation all agreements and other instruments (including, without limitation, applications, bids, leases, bonds, assignments, relinquishments, prospecting permits, division and transfer orders, guarantees, indemnities, designations of operator, unitization agreements, operating agreements, liquids commingling agreements, general correspondence and any other documents) which may be necessary, useful or expedient at any time in carrying on the business of the Corporation involving any such lease or asset with the United States of America or any agency, bureau or department thereof; and

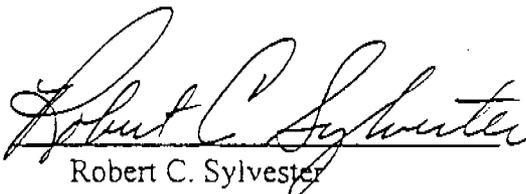
RESOLVED, that, any of such officers is further authorized and empowered to sell, assign, transfer, convey and deliver, in the name and on behalf of the Corporation any or all right, title and interest of any character in any lease or asset now owned or hereafter acquired by the Corporation covering any tract or tracts owned by the United States of America, or obtained or used in connection therewith, wherever located, for such prices and upon such terms and conditions as shall be approved by the Board of Directors; and

RESOLVED, that, the Chairman and Chief Executive Officer, the President and Chief Operating Officer, the Vice Presidents and the Secretary of the Corporation, be, and each of them is, hereby authorized and empowered, without the joinder of any other officer of the Corporation, to execute for and on behalf of the Corporation, any and all agreements and other instruments (including without limitation assignments of mining leases, prospecting permits, letter agreements,

consent forms, applications and approval letters) with the Tribe(s) of the Fort Peck Reservation and the Three Affiliated Tribes of the Fort Berthold Indian Reservation or any agency, bureau or department thereof, or any agency, bureau or department of the United States of America concerning same on such terms and conditions as may be specified and for such consideration as he may deem proper and advisable which may be necessary, useful or expedient at any time in carrying on the business of the Corporation upon the aforementioned Reservations; and

RESOLVED, that, the foregoing resolutions be deemed, and are effective, for all purposes as of April 30, 1996.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed the seal of the Corporation this 5th day of July, 1996.


Robert C. Sylvester
Assistant Secretary

CORPORATE SEAL

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

STATEMENT OF AVIARA ENERGY CORPORATION

The undersigned, Robert C. Sylvester, Assistant Secretary of Aviara Energy Corporation, being first duly sworn on his oath, states that the following is correct to the best of his knowledge.

1. State of Incorporation. Aviara Energy Corporation is incorporated in the State of Delaware.

2. Authorization to hold oil and gas leases on OCS and other federal lands. Aviara Energy Corporation is authorized to hold oil and gas leases on the Outer Continental Shelf, on other federal lands, including onshore lands, and on tribal lands administered by the Bureau of Indian Affairs or other agency.

Dated this 5th day of July, 1996.

AVIARA ENERGY CORPORATION

By Robert C. Sylvester
Robert C. Sylvester
Assistant Secretary

CORPORATE SEAL

SUBSCRIBED AND SWORN TO before me this 5th day of July, 1996.

Carolyn Oliver
Notary Public, State of Texas



CAROLYN OLIVER
NOTARY PUBLIC, STATE OF TEX.
MY COMMISSION EXPIRES
JULY 19, 1997

CERTIFICATE OF INCUMBENCY

I, Robert C. Sylvester, Assistant Secretary of Aviara Energy Corporation, a Delaware corporation (the "Company"), do hereby certify that the following named persons now are, and at all times on and subsequent to April 30, 1996, have been duly elected or appointed, qualified and acting officers of the Company holding the offices set after their respective names as follows:

Tracy W. Krohn	Chairman and Chief Executive Officer
James L. Parker	President and Chief Operating Officer
David M. McCubbin	Vice President
Gary J. Mabie	Vice President
Ken Fagan	Vice President
Robert C. Sylvester	Treasurer and Assistant Secretary
Ivan Irwin, Jr.	Secretary
Jere F. Freel	Assistant Secretary

IN WITNESS WHEREOF, I have executed this Certificate and affixed the seal of the Company this 3rd day of July, 1996.


Robert C. Sylvester, Assistant Secretary

CORPORATE SEAL

CERTIFICATE

I, Robert C. Sylvester, on behalf of Avicara Energy Corporation, (hereinafter called the "Company"), hereby certify that I am an Assistant Secretary of the Company and that:

The following officers and employees are authorized to execute leases, bids for leases, offers to lease, subleases, permits, licenses, applications therefor, assignments thereof, and requests for approval thereof, and other similar documents and to act on behalf of the Company in such matters.

<u>Name</u>	<u>Office/Title</u>
Tracy W. Krohn	Chairman and Chief Executive Officer
James L. Parker	President and Chief Operating Officer
Gary J. Mabie	Vice President
David M. McCubbin	Vice President
Ken Fagan	Vice President
Ivan Irwin, Jr.	Secretary

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of the Company
this 5th day of July, 1996.


Assistant Secretary

CORPORATE SEAL

OPERATOR CHANGE WORKSHEET

Routing	
1-LEC ✓	6-LPE ✓
2-GMT/EYE ✓	7-KDR
3-DES ✓	8-SJ ✓
4-VLD ✓	9-FILE
5-RJF ✓	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (~~well sold~~) Designation of Agent
 Designation of Operator Operator Name ~~Change Only~~

The operator of the well(s) listed below has changed, effective: 5-1-96

TO: (new operator)	<u>AVIARA ENERGY CORPORATION</u>	FROM: (old operator)	<u>COLUMBIA GAS DEVELOPMENT</u>
(address)	<u>PO BOX 1350</u>	(address)	<u>PO BOX 1350</u>
	<u>HOUSTON TX 77251</u>		<u>HOUSTON TX 77251</u>
Phone:	<u>(713)871-3400</u>	Phone:	<u>(713)871-3400</u>
Account no.	<u>N5500 (8-6-96)</u>	Account no.	<u>N5035</u>

WELL(S) attach additional page if needed: ***KANE SPRINGS UNIT**
C.A. UTU60783

Name: **SEE ATTACHED**	API: <u>43-019-31331</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (r649-8-10) Sundry or other legal documentation has been received from the **FORMER** operator (attach to this form).
- See 2. (r649-8-10) Sundry or other legal documentation has been received from the **NEW** operator (Attach to this form). (Reg. 7-25-96) (Rec'd 8-5-96)
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) yes. If yes, show company file number: 02-081180 (r/H. 5-8-96)
- See 4. **FOR INDIAN AND FEDERAL WELLS ONLY.** The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of **Federal** and **Indian** well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. (8-6-96)
- See 6. Cardex file has been updated for each well listed above. (8-6-96)
- See 7. Well file labels have been updated for each well listed above. (8-6-96)
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc. (8-6-96)
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- JEC 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) _____ If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

*Trust Lands/Rid Bond Rider "Columbia to Aviana":
*Rid "Rider" 8-5-96; bond no. chgd to U274145L
80,000 Aviana Energy Corporation, United Pacific Ins.*

- JEC 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- _____ 2. A copy of this form has been placed in the new and former operator's bond files. ** Upon Compl. of routing.*
- N/A 3. The FORMER operator has requested a release of liability from their bond (yes/no) _____, as of today's date _____. If yes, division response was made to this request by letter dated _____.

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- _____ 1. Copies of documents have been sent on _____ to _____ at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

FILMING

- _____ 1. All attachments to this form have been microfilmed. Today's date: _____.

FILING

- _____ 1. Copies of all attachments to this form have been filed in each well file.
- _____ 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

960725 Bjm/SL Appr. CH 5-1-96



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Moab District
82 East Dogwood
Moab, Utah 84532

3160
(Kane Springs Unit)
(U-53624)
(UT-065)

APR 23 1998

Mr. Donnie Worthington
Aviara Energy Corporation
P.O. Box 1350
Houston, Texas 77251-1350

Re: Gas Flaring Request (NTL-4A)
Kane Springs Unit
Wells No. 27-1, 19-1A, 10-1 and 34-1
Grand County, Utah

Dear Mr. Worthington:

We have reviewed your March 6th request to continue flaring produced gas from the above captioned wells. After reviewing our original economic analysis and the production histories for the wells, we agree that production from these four wells cannot offset the cost of constructing gas sales facilities under present conditions.

We first conducted a thorough economic analysis of the feasibility of constructing a gasline and associated sales facilities in 1992. Using the parameters set forth in relevant guidance documents (Conservation Division Manual 644.5, Washington Office Instruction Memorandum 87-652 and Notice to Lessees 4A), we found that the cost of gas facility construction would impose an undue economic burden on the operator. Our annual reviews have confirmed these findings.

The economic scenario today is certainly different than it was when we performed our initial 1992 analysis. At that time the field was new and initial production was high. In the intervening six years the wells have exhibited rapid production decline as is typical of horizontal completions. Aviara's most recent reservoir calculations, which we believe are reasonable, indicate that only 17% of original recoverable oil remains in place, and 20% of recoverable gas remains.

Considering this, we conclude that capturing the gas from the four subject wells remains uneconomic. Therefore, you are approved to continue to flare gas from these wells pursuant to NTL-4A. This approval is effective immediately. No expiration date has been specified; however, if new information reveals a viable alternative to gas flaring, the Bureau of Land Management (BLM) will issue a revised decision on this matter. As with all previous approvals, the following conditions apply:

1. Should economic conditions substantially change in favor of marketing the gas, the Bureau of Land Management will revise its position authorizing gas flaring. Such conditions affecting economics could include gas price increase, revising the gas pipeline design, or any other circumstances that would act to lessen gas marketing or operating costs.
2. All produced gas shall be measured in accordance with Onshore Oil and Gas Order No. 5.
3. All gas not being used on the lease shall be flared in a pit designed to reduce the flare from sight of the general public (the pits currently being used accomplish this).
4. BLM shall be kept apprised of any negotiations regarding gas marketing.
5. BLM shall be kept apprised of any feasibility studies to inject the gas or redesign the proposed pipeline that could significantly change the economics favoring conservation of the natural gas.

Should you have any questions regarding this matter, please call Eric Jones at (435) 259-2117.

Sincerely,

/s/ Brad D Palmer

Assistant District Manager
Resource Management

cc: UT-931, Utah State Office
State of Utah, Division of Oil, Gas and Mining ✓
ATTN: Mr. John Baza
P.O. Box 145801
Salt Lake City, Utah 84114-5801

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires July 31, 1996

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #10-1

9. API Well No.

43-019-31331

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Grand County, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Aviara Energy Corporation

3a. Address

P.O. Box 1350, Houston TX 77251-1350

3b. Phone No. (include area code)

713-871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**2333' FSL & 2112' FEL
Sec. 10, T25S, R18E**

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Workover</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>to enhance</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<u>production</u>

13. Describe Proposed or Coompleted Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Aviara Energy Corporation proposes to workover the above referenced well on or about October 18, 1999 as per the attached procedures.

COPY SENT TO OPERATOR
Date: 9-29-99
Initials: CHP

SEP 21 1999

ENV. OF OIL, GAS & MINING

APPROVED

The Utah Division of Oil, Gas and Mining
Robert J. Krueger, PE, Petroleum Engineer

Approval Of This
Action Is Necessary

Date: 9-23-99

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Victoria Guidry

Title

Production/Regulatory Coordinator

Date

9/17/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on reverse)

FEDERAL #10-1 PROCEDURE

1. Pump 140 Bbls hot FW down casing early in AM, and speed well to max SPM.
2. MIRU. TOH w/ rods and pump.
3. NU BOPs, TOH & LD 2-7/8" tbg.
4. PU mill assembly, jars, DCs, and 2-7/8" work string.
5. TIH w/ tbg to pkr @ 8450'.
6. RU circulating head, and power swivel.
7. Mill out pkr. Pmp minimum water since well will not circulate.
8. TOH & LD pkr assembly.
9. PU 3-3/4" bit (large nozzles), 500' 2-7/8" WS, oil jars, and TIH w/ 2-7/8" WS to PBTD @ 9080'. Mill through any plugs.
10. Circulate 140 Bbls FW down tbg at maximum pump rate, while working tbg up and down at least 40'.
11. TOH w/ bit.
12. PU OS, jars, and DCs, TIH w/ 2-7/8" WS and engage top of liner @ 8658'.
13. Jar 4-1/2" liner out of hole and LD WS and liner.
14. PU tailpipe tbg, tbg anchor, SN, and TIH w/ 7700' of 2-7/8" tbg.
15. Set tbg anchor, ND BOPs, NU pumping flange.
16. Swab well until clean, reversing lease water down annulus to clean hole.
17. Run rods and pump, put well to pumping.

***Aviara Energy
Corporation***

November 8, 1999

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

Reference: Kane Springs Federal #10-1

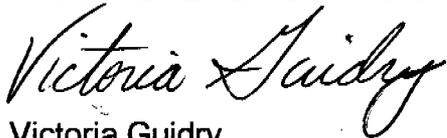
Dear Sirs:

Enclosed please find three copies of the Sundry Notice of the workover operations performed on the above referenced well. This Sundry Notice was also submitted to the Bureau of Land Management, Moab office.

If you require additional information or have any questions please contact Mark Swisher, Production Engineer, or myself at 713-871-3400.

Very truly yours,

AVIARA ENERGY CORPORATION

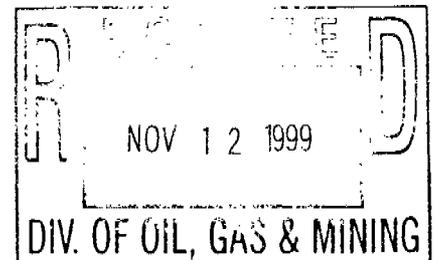


Victoria Guidry
Production/Regulatory Coordinator

/v/jg

Enclosures

U:\user\...reg\053b



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
Budget Bureau No. 1004-0135
Expires July 31, 1996

5. Lease Serial No.

UTU-47858

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Kane Springs Federal Unit

8. Well Name and No.

Kane Springs Fed. #10-1

9. API Well No.

43-019-31331

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Grand County, UT

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Aviara Energy Corporation

3a. Address

P.O. Box 1350, Houston TX 77251-1350

3b. Phone No. (include area code)

713-871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

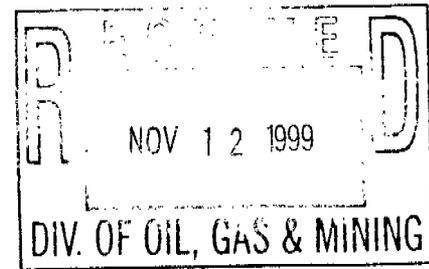
2333' FSL & 2112' FEL
Sec. 10, T25S, R18E

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Workover</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>to enhance</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	<u>production</u>

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

SEE THE ATTACHED SUMMARY OF THE WORKOVER OPERATIONS PERFORMED



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Victoria Guidry

Victoria Guidry

Title

Production/Regulatory Coordinator

Date

11/08/99

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

(Instructions on reverse)

FEDERAL #10-1 OPERATIONS PERFORMED

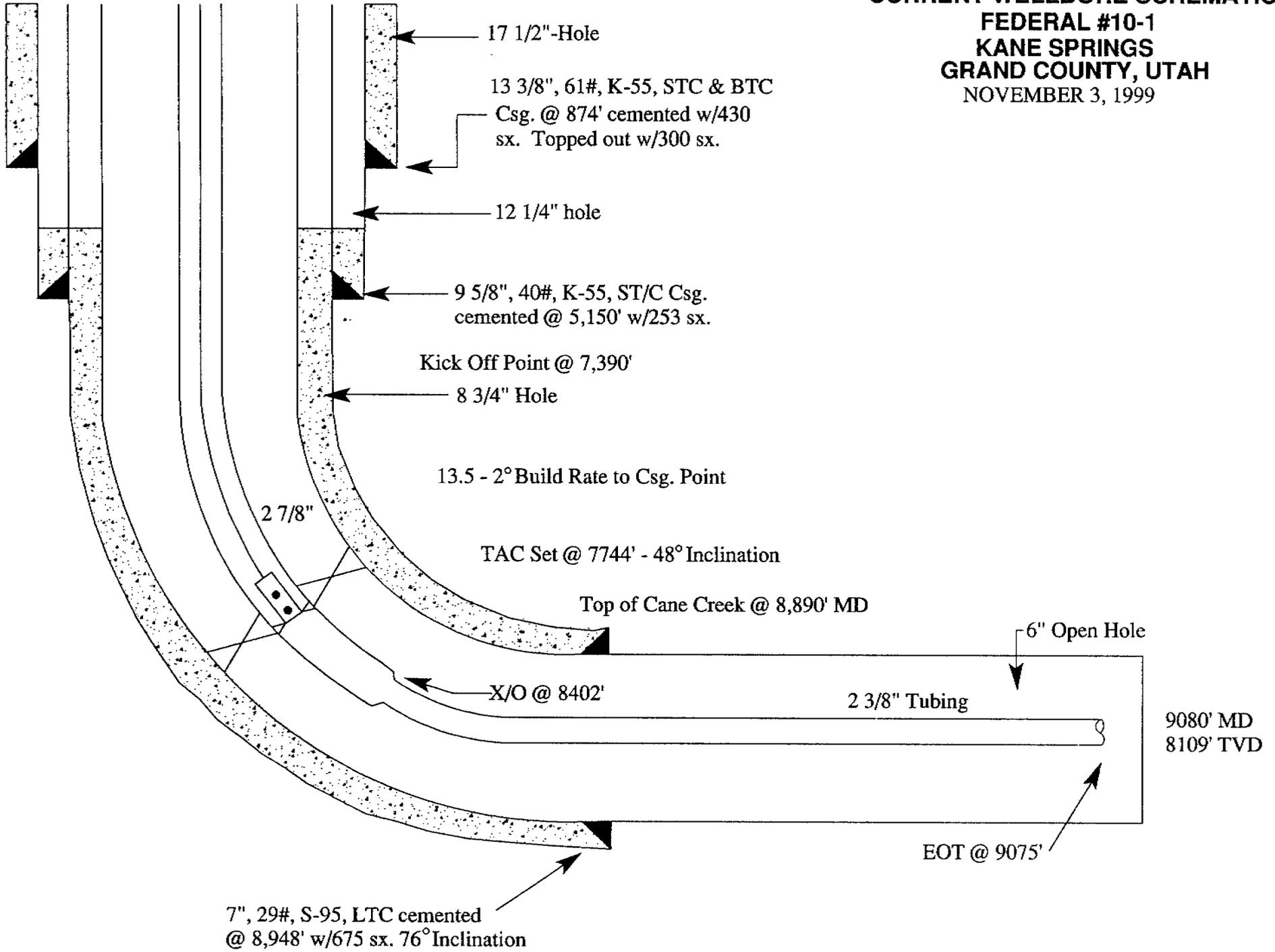
1. MIRU. TOH w/ rods and pump.
2. NU BOPs, TOH & LD 2-7/8" tbg.
3. PU mill assembly, jars, DCs, and 2-7/8" work string.
4. TIH w/ tbg to pkr @ 8450'.
5. Mill out pkr.
6. TOH & LD pkr assembly.
7. PU 3-3/4" bit (large nozzles), 500' 2-7/8" WS, oil jars, and TIH w/ 2-7/8" WS to PBSD @ 9080'. Milled through all plugs.
8. TOH w/ bit.
9. PU spear, jars, and DCs, TIH w/ 2-7/8" WS and engage top of liner @ 8658'.
10. Jar 4-1/2" liner out of hole and LD WS and liner.
11. PU 2-3/8" tailpipe tbg, tbg anchor, SN, and TIH w/ 7743' of 2-7/8" tbg.
12. Set tbg anchor @ 7744', ND BOPs, NU pumping flange.
13. Swab well until clean, reversing lease water down annulus to clean hole.
14. Run rods and pump, put well to pumping.

AVIARA

ENERGY CORPORATION

CURRENT WELLBORE SCHEMATIC

FEDERAL #10-1
KANE SPRINGS
GRAND COUNTY, UTAH
NOVEMBER 3, 1999



HUNT PETROLEUM (AEC), INC.

1601 Elm Street, Suite 3400

Dallas, Texas 75201

July 11, 2002

State of Utah
Department of Oil, Gas & Minerals
1594 West N. Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Attn: Mr. Jim Hamilton

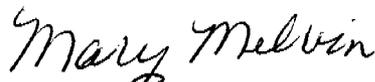
Re: Travelers Bond No. 103860066

Dear Sir:

This is to advise you that Aviara Energy Corporation has changed its name to Hunt Petroleum (AEC), Inc., effective July 1, 2002. Attached is a Surety Rider to Travelers Bond #103860066 (which replaced CNA Bond No. 159209096) and a copy of the Surety Bond on State of Utah Form 4A currently on file with the State of Utah, Department of Natural Resources.

If you have any questions please give me a call at (214) 880-8916.

Yours very truly,



Mary Melvin
Legal Assistant

attachments

cc: Max Gardner (w/enc.)
Donny Worthington (w/enc.)
Gerald Phillips (w/enc.)

Receipt acknowledged this ___ day of July 2002.

STATE OF UTAH, Department of Oil, Gas & Minerals

By: _____

Title: _____

RECEIVED
JUL 15 2002
DIVISION OF
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Colorado State Office
2850 Youngfield Street
Lakewood, Colorado 80215-7076

IN REPLY REFER TO:
3106 (MM)

July 22, 2002

NOTICE

Hunt Petroleum (AEC), Inc. :
1601 Elm Street, Suite 3400 : Oil and Gas
Dallas, TX 75201 :

Name Change Recognized

Acceptable evidence was filed and accepted by this office concerning the name change of Aviara Energy Corporation to Hunt Petroleum (AEC), Inc. with Hunt Petroleum (AEC), Inc. being the surviving entity. For our purposes, the name change was recognized effective July 1, 2002 the date of acceptance by the Secretary of the State of Delaware.

A rider changing the name of the principal on Nationwide bond number 159209244 (BLM Bond CO-1274) previously held by Aviara and issued by Continental Casualty Company, was changed to Hunt Petroleum (AEC), Inc. effective July 12, 2002.

The oil and gas lease files identified on the enclosed Exhibit A, supplied by Hunt Petroleum (AEC), Inc. were updated to reflect the new name. We have not abstracted the lease files to determine if the entities affected by the name change hold an interest in the leases identified nor have we attempted to identify leases where the entity is the operator on the ground maintaining no vested record title or operating rights interests. We are notifying the Mineral Management Services (MMS) and applicable Bureau of Land Management (BLM) Field Offices of the name change by copy of this notice. If our field offices require additional documentation for changes of operator, they will contact you.

If you identify additional leases where the affected parties maintain an interest, please contact this office and we will document the files under our jurisdiction with a copy of this Notice. If the leases are under the jurisdiction of another State Office, we will notify them.

If you have any questions concerning this correspondence, please call Martha Maxwell at (303)239-3768.

Milada Kwan-Liuec
FOR Beverly Derringer
Chief, Fluid Minerals Adjudication

Exhibit A sent to Eastern SO, New Mexico SO, Montana SO, Utah SO, Wyoming SO &
MMS-MRM, MS357B1, PO Box 5760, Denver, CO 80217
Decision Letter sent to All State Offices via BLM_Fluids_Forum

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 type="checkbox"/> OTHER <u>See attachment</u>		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: Hunt Petroleum (AEC), Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1601 Elm Street, Suite 3400 Dallas, TX 75201		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: 214-880-8855		8. WELL NAME and NUMBER:
4. LOCATION OF WELL FOOTAGES AT SURFACE:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT:
		COUNTY:
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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.

Change of company from Aviara Energy Inc. to Hunt Petroleum (AEC), Inc.
effective July 1, 2002.

NAME (PLEASE PRINT) <u>Lisa Augustine</u>	TITLE <u>Agent</u>
SIGNATURE <u><i>Lisa Augustine</i></u>	DATE <u>August 6, 2002</u>

(This space for State use only)

RECEIVED
AUG 07 2002
DIVISION OF
OIL, GAS AND MINING

api	well_name	section	township	range	ll_status_m
4301931310	KANE SPRINGS FED 27-1	27	250S	190E	P
4301931324	KANE SPRINGS FED 19-1A	19	260S	200E	P
4301931325	KANE SPRINGS FED 28-1	28	250S	190E	S
4301931331	KANE SPRINGS FED 10-1	10	250S	180E	P
4301931332	KANE SPRINGS FED 20-1	20	260S	190E	S
4301931334	KANE SPRINGS FED 25-19-34-1	34	250S	190E	P
4301931363	CANE CREEK FEDERAL 7-1	07	250S	190E	DRL
4301931364	CANE CREEK FED 11-1	11	260S	190E	DRL
4301931365	CANE CREEK 30-1	30	260S	200E	APD
4301931379	KANE SPRINGS FED 3-1	03	260S	190E	APD
4303730572	GOVT EVELYN CHAMBERS 1	06	310S	240E	S
4303730612	GOVT EVELYN CHAMBERS 2	05	310S	240E	S
4304731768	COWDEN 31-3-C	31	060S	210E	S
4304731769	FEDERAL 33-6-F	33	060S	210E	P
4304731787	FEDERAL 33-8-N	33	060S	210E	P
4304731804	FEDERAL 33-3-J	33	060S	210E	S
4304731844	FEDERAL 33-7-L	33	060S	210E	P
4301931341	KANE SPRINGS 16-1	16	250S	180E	A
4304731776	ALTA 5-1-B	05	070S	210E	P
4304731843	ALTA 5-2-C	05	070S	210E	P

7. Federal and Indian Units:

The BLM or BIA has approved the successor of unit operator for wells listed on: 07/01/2002

8. Federal and Indian Communization Agreements ("CA"):

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

9. 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: 07/08/2002

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 08/07/2002
 2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 08/07/2002
 3. Bond information entered in RBDMS on: N/A
 4. Fee wells attached to bond in RBDMS on: N/A
-

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A
-

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: CO-1274
-

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A
-

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
 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:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU-47858

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA/Agreement, Name and/or No.
Kane Springs Federal

8. Well Name and No.
Kane Springs Federal 10-1

9. API Well No.
43-019-31331

10. Field and Pool, or Exploratory Area
Bartlett Flat Field

11. County or Parish, State
Grand County, Utah

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Hunt Petroleum (AEC), Inc.

3a. Address
P. O. Box 1350 Houston, TX 77251

3b. Phone No. (include area code)
(713) 871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2333' FSL & 2112' FEL of Sec. 10-T25S-R18E

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Site Security Diagram</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

See attached for revised site security diagram.

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

RECEIVED
FEB 21 2003
DIV. OF OIL, GAS & MINING

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

Name (Printed/Typed) Victoria Guidry Title Regulatory Coordinator

Signature *Victoria Guidry* Date 2/20/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

LOCKED
GATE

ACCESS ROAD

SITE SECURITY DIAGRAM

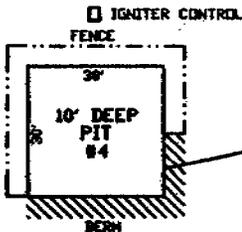
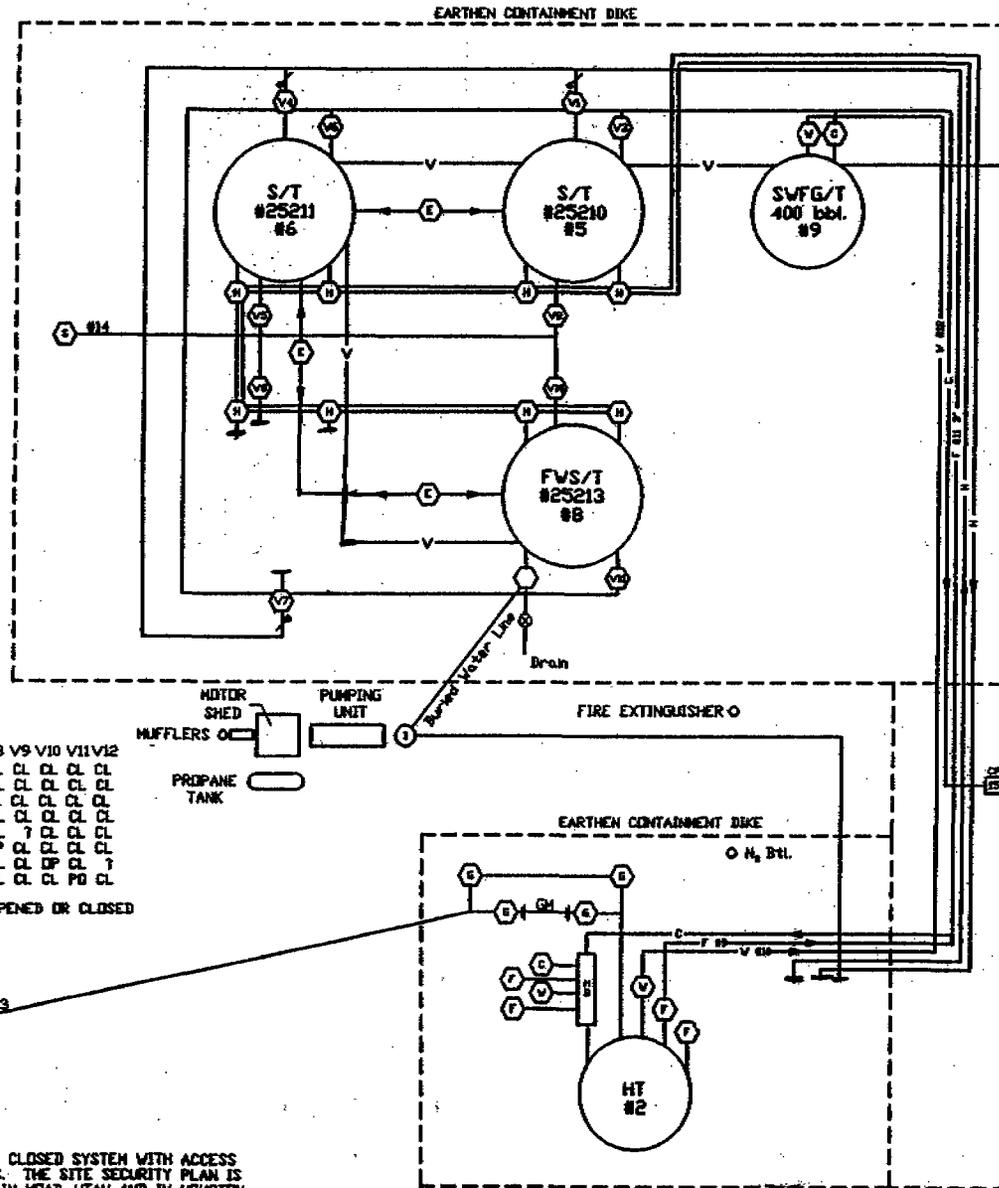
1. WELLHEAD
2. TREATER
3. LINE HEATER/SEPARATOR
4. EMERGENCY FLAIR
5. 500 BBL. TANK #25210
6. 500 BBL. TANK #25211
7. 500 BBL. TANK #25212
8. 500 BBL. TANK #25213
9. 400 BBL. SALT WATER TANK

11. 3" OIL PRODUCTION LINE
12. WATER PUMP LINE
13. GAS FLARE LINE
14. 4" LOAD LINE
15. RECYCLE PUMP

- V1 - PRODUCTION VALVE FOR #25210
 V2 - SALES VALVE FOR #25210
 V3 - RECYCLE VALVE FOR #25210
 V4 - PRODUCTION VALVE FOR #25211
 V5 - SALES VALVE FOR #25211
 V6 - RECYCLE VALVE FOR #25211
 V7 - PRODUCTION VALVE FOR #25212
 V8 - SALES VALVE FOR #25212
 V9 - RECYCLE VALVE FOR #25212
 V10 - SALES VALVE FOR #25213
 V11 - RECYCLE VALVE FOR #25213

TANK	PHASE	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12
TANK #25210	PROD.	CL	?	CL	CL	CL							
TANK #25210	SALES	CL	CL	CL									
TANK #25211	PROD.	CL	CL	CL	CL	?	CL	CL	CL	CL	CL	CL	CL
TANK #25211	SALES	CL	CL	CL									
TANK #25212	PROD.	CL	CL	CL	CL	CL	CL	?	CL	CL	CL	CL	CL
TANK #25212	SALES	CL	CL	CL									
TANK #25213	PROD.	CL	CL	?									
TANK #25213	SALES	CL	CL	CL									

DP=OPEN VALVE CL=CLOSED VALVE ?=COULD BE OPENED OR CLOSED



NOTE: THE ENTIRE SYSTEM IS A CLOSED SYSTEM WITH ACCESS THROUGH SEALED VALVES. THE SITE SECURITY PLAN IS AVAILABLE AND ON FILE IN HOAB, UTAH AND IN HOUSTON, TEXAS.

NOTE: THE ENTIRE LOCATION IS FENCED WITH A FOUR STRAND BARBED WIRE FENCE, AND THE ACCESS ROAD IS LOCKED WITH A GATE.



Hunt Petroleum

KANE SPRINGS FEDERAL 10-1
 GRAND COUNTY, UTAH
 SITE SECURITY DIAGRAM
 Sec. 10-T255-R18E
 AP10 43-019031331
 UTU-47858



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155

IN REPLY REFER TO
UT-922

April 28, 2003

Intrepid Oil & Gas, L.L.C.
Attn: Jan Podoll
700 17th Street, Suite 1700
Denver, Colorado

Re: Kane Springs Unit
Grand & San Juan Counties, Utah

Gentlemen:

On April 25, 2003, we received an indenture dated April 23, 2003, whereby Hunt Petroleum (AEC), Inc. resigned as Unit Operator and Intrepid Oil & Gas, L.L.C. was designated as Successor Unit Operator for the Kane Springs Unit, Grand and San Juan Counties, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective April 28, 2003. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Kane Springs Unit Agreement.

Your statewide (Utah) oil and gas bond No. UTB000029 will be used to cover all operations within the Kane Springs Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Robert A. Henricks

Robert A. Henricks
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager - Moab (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Minerals Adjudication Group
File - Kane Springs Unit (w/enclosure)
Agr. Sec. Chron
Fluid Chron

UT922:TAThompson:tt:4/28/03

Results of query for MMS Account Number UTU67755

Production	API Number	Operator	Well Name	Well Status	Lease or CA Number	Inspection Item	Township	Range	Section	Quarter/Quarter
Production	4301931310	HUNT PETROLEUM (AEC) INC	27-1 KANE SPRING-FED	POW	UTU65971	UTU67755A	25S	19E	27	NWSE
Production	4301931334	HUNT PETROLEUM (AEC) INC	25-19-34-1 KANE SPRG	POW	UTU53624	UTU67755A	25S	19E	34	NWNE
Production	4301931319	HUNT PETROLEUM (AEC) INC	19-1 KANE SPRINGS	P+A	UTU53626	UTU67755B	26S	20E	19	SWSE
Production	4301931324	HUNT PETROLEUM (AEC) INC	19-1A KANE SPRINGS	POW	UTU53626	UTU67755B	26S	20E	19	SESW
Production	4301931331	HUNT PETROLEUM (AEC) INC	10-1 KANE SPRINGS	POW	UTU47858	UTU67755C	25S	18E	10	NWSE

DISCLAIMER for online data: No warranty is made by the BLM for use of the data for purposes not intended by the BLM.

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

5. LEASE DESIGNATION AND SERIAL NUMBER:

U-47858

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Kane Springs Federal

8. WELL NAME and NUMBER:

Kane Springs Federal #10-1

9. API NUMBER:

43-019-31331

10. FIELD AND POOL, OR WILDCAT:

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

GAS WELL

OTHER _____

2. NAME OF OPERATOR:

Hunt Petroleum (AEC), Inc.

3. ADDRESS OF OPERATOR:

P. O. Box 1350 CITY Houston STATE TX ZIP 77251

PHONE NUMBER:

713-871-3400

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

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.

On April 28, 2003, Hunt Petroleum (AEC), Inc. resigned as Operator of the Kane Springs Federal Unit and Intrepid Oil & Gas, LLC was designated successor Unit Operator. Concurrent with this action, Hunt Petroleum (AEC), Inc. resigns as Operator of this well and names Intrepid Oil & Gas, LLC as successor Operator.

NAME (PLEASE PRINT)

Melinda Mayse

TITLE

Regulatory Coordinator Agent

SIGNATURE

Melinda Mayse

DATE

June 23, 2003

(This space for State use only)

RECEIVED

JUN 25 2003

DIV. OF OIL, GAS & MINING

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, rewire plugged wells, or to drill horizontal intervals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

- 4. LEASE DESIGNATION AND SERIAL NUMBER:
See List below
- 5. IF INDIAN, ALLOTTEE OR TRIBE NAME:
- 7. UNIT OR O.A. AGREEMENT NAME:
- 8. WELL NAME AND NUMBER:
See List below
- 9. API NUMBER:
See List
- 10. FIELD AND POOL, OR WILDCAT:
See List below

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
Intrepid Oil & Gas, LLC

3. ADDRESS OF OPERATOR:
700 17th Street CITY Denver STATE CO ZIP 80202 PHONE NUMBER (303) 296-3006

4. LOCATION OF WELL
FOOTAGES AT SURFACE: _____ COUNTY: Grand
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"/> COMINGLE 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.

On April 28, 2003, Intrepid Oil & Gas, LLC accepted designation as successor operator for the Kane Springs Federal Unit and became operator for the following wells:
 Kane Springs Federal #19-1A - UTU-53626 - API 4301931324 - 800' FSL, 1918' FEL, 19-26S-20E
 Kane Springs Federal #25-19-34-1 - UTU-53624 - API 4301931334 - 934' FNL, 1678' FEL, 34-25S-19E
 Kane Springs Federal #27-1 - UTU-65971 - API 4901931310 - 1700' FEL, 1650' FSL, 27-25S-19E
 Kane Springs Federal #10-1 - UTU-47658 - API 4301931331 - 2333' FSL, 2112' FEL, 10-26S-18E
 Kane Creek #11-1 - UTU-65972 - API 4301931364 - 2220' FNL, 2060' FWL, 22-26S-19E
 Kane Springs Federal #28-1 - UTU-50678 - API 4301331325 - 1900' FSL, 1900' FEL, 28-25S-19E
 Kane Springs Federal #20-1 - UTU-54037 - API 4301931332 - 1000' FSL, 2400' FWL, 20-26S-19E

NAME (PLEASE PRINT) H. Richard Miller

TITLE Special Projects Manager

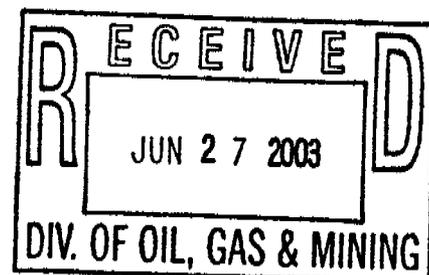
SIGNATURE *H. Richard Miller*

DATE 6/27/2003

(This space for State use only)

(R/2000)

(See Instructions on Reverse Side)



OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **04/28/2003**

FROM: (Old Operator): HUNT PETROLEUM CORPORATION 1601 Elm Street, Suite 3400 Dallas, TX 75201 Phone: 1-(214) 880-8914 Account No. N 2180	TO: (New Operator): Intrepid Oil & Gas, LLC 700 17th Street, Suite 1700 Denver, CO 80202 Phone: 1-(303) 296-3006 Account No. N6810
--	---

CA No. _____ **Unit:** Kane Springs & Cane Creek

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
Kane Springs Unit								
KANE SPRINGS FED 27-1	27	250S	190E	4301931310	11180	Federal	OW	P
KANE SPRINGS FED 19-1A	19	260S	200E	4301931324	11353	Federal	OW	P
KANE SPRINGS FED 28-1	28	250S	190E	4301931325	11354	Federal	OW	S
KANE SPRINGS FED 10-1	10	250S	180E	4301931331	11414	Federal	OW	P
KANE SPRINGS FED 20-1	20	260S	190E	4301931332	11670	Federal	OW	S
KANE SPRINGS FED 25-19-34-1	34	250S	190E	4301931334	11521	Federal	OW	P
Cane Creek Unit								
CANE CREEK FED 11-1	11	260S	190E	4301931364	13477	Federal	OW	P

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: 06/25/2003
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/27/2003
- The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/30/2003
- Is the new operator registered in the State of Utah: YES Business Number: 2029416-0161
- If **NO**, the operator was contacted on: _____

6. (R649-9-2) Waste Management Plan has been received on: IN PLACE

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: BLM 04/28/2003 BIA n/a

8. **Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 04/28/2003

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: 07/16/2003
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 07/16/2003
3. Bond information entered in RBDMS on: N/A
4. Fee wells attached to bond in RBDMS on: N/A

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: N/A

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000029

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: N/A

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number N/A
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:

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

FORM 6

ENTITY ACTION FORM

Operator: Intrepid Oil & Gas LLC Operator Account Number: N 6810
 Address: 700 17th St, Suite 1700
city Denver
state CO zip 80202 Phone Number: (303) 296-3006

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301931324	Kane Springs Fed 19-1A		SWNE	19	20E	20E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	11353	14507	205			1/18/2005	
Comments: Correction requested by operator due to unit change. Please correct reports effective 5/18/2004.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301931325	Kane Springs Fed 28-1		NWSE	28	25S	19E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	11354	14508				1/18/2005	
Comments: Correction requested by operator due to unit change. Please correct reports effective 5/18/2004.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301931331	Kane Springs Fed 10-1		NWSE	10	25S	18E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	11414	14509				1/18/2005	
Comments: Correction requested by operator due to unit change. Please correct reports effective 5/18/2004.							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Earlene Russell For DOGM

Name (Please Print)

ER

Signature

Engineering Tech

Title

1/18/2005

Date

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ
2. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: 10/1/2006

FROM: (Old Operator): N6810-Intrepid Oil & Gas, LLC 700 17th St, Suite 1700 Denver, CO 80202 Phone: 1 (303) 296-3006	TO: (New Operator): N3135-Babcock & Brown Energy, Inc. 1512 Larimer St, Suite 550 Denver, CO 80202 Phone: 1 (303) 460-1132	
CA No.	Unit:	CANE CREEK

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 12/18/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 12/18/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 12/28/2006
- 4a. Is the new operator registered in the State of Utah: YES Business Number: 6404096-0143
- 5a. (R649-9-2)Waste Management Plan has been received on: REQUESTED
- 5b. Inspections of LA PA state/fee well sites complete on: n/a
- 5c. Reports current for Production/Disposition & Sundries on: OK
6. **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 12/19/2006 BIA
7. **Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: 12/19/2006
8. **Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **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: 12/28/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/26/2006
3. Bond information entered in RBDMS on: 12/28/2006
4. Fee/State wells attached to bond in RBDMS on: 12/28/2006
5. Injection Projects to new operator in RBDMS on: n/a
6. Receipt of Acceptance of Drilling Procedures for APD/New on: 12/28/2006

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UTB000240
- 3a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 8785513659
- 3b. The **FORMER** operator has requested a release of liability from their bond on: not yet

LEASE INTEREST OWNER NOTIFICATION:

4. (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

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

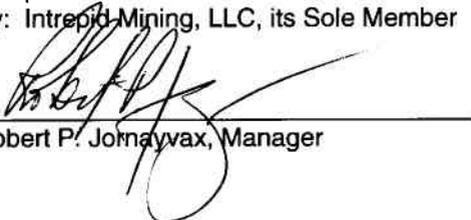
FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See attached Exhibit
		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: See attached Exhibit
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: See attached Exhibit
2. NAME OF OPERATOR: Babcock & Brown Energy Inc.	N3135	9. API NUMBER: See attach
3. ADDRESS OF OPERATOR: 1512 Lanimer St, Suite 550 CITY Denver STATE CO ZIP 80202		10. FIELD AND POOL, OR WILDCAT: See attached Exhibit
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED EXHIBIT FOR ALL WELLS & DETAILS		COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: UTAH

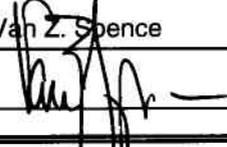
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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"/> 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 October 1, 2006, Intrepid Oil & Gas LLC resigned as Operator of the wells listed on the attached Exhibit and Babcock & Brown Energy Inc. has been designated as successor Operator. Concurrent with this action, Intrepid Oil & Gas LLC resigns as Operator of this well and names Babcock & Brown Energy Inc. as successor Operator. Bond Number 8785513659 will be used to cover operations by Babcock & Brown Energy Inc. (BLM Statewide Bond UTB-00240)

Intrepid Oil & Gas LLC
By: Intrepid Mining, LLC, its Sole Member

Robert P. Jorjanyax, Manager

N6810

NAME (PLEASE PRINT) <u>Van Z. Spence</u>	TITLE <u>President</u>
SIGNATURE 	DATE <u>11/15/2006</u>

(This space for State Use Only)
APPROVED 1111107 = UIC
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

*12/28/06
all other wells*

RECEIVED
DEC 18 2006
DIV. OF OIL, GAS & MINING

EXHIBIT "A"

Attached to Form 9, Change of Operator, from Intrepid Oil & Gas LLC to Babcock & Brown Energy Inc., effective October 1, 2006

LEASE	UNIT	WELL NAME/NUMBER	API NO.	FIELD	LOCATION							TYPE
					Footage	QrtQrt	Sec.	Twp	Rge	County		
UTU 047858	N/A	Long Canyon No. 1	43-019-15925	Long Canyon	2,339' FNL	2,473' FWL	SENW	9	26S	20E	Grand	Oil Well
UTU 065971	Kane Springs	Kane Springs Federal No. 27-1	43-019-31310	Big Flat	1,650' FSL	1,700' FEL	NWSE	27	25S	19E	Grand	Oil Well
UTU 053626	Kane Springs	Kane Springs Federal No. 19-1A	43-019-31324	Park Road	800' FSL	1,918' FEL	SWNE	19	26S	20E	Grand	Oil Well
ML-40761	Cane Creek	Cane Creek No. 2-1	43-019-31396	Big Flat	2,289' FNL	518' FEL	SENE	2	26S	19E	Grand	Oil Well
UTU 047858	Kane Springs	Kane Springs Federal No. 10-1	43-019-31331	Hell Roaring	2,333' FSL	2,112' FEL	NWSE	10	25S	18E	Grand	Oil Well
UTU 053624	Kane Springs	Kane Springs Federal No. 25-19-34-1	43-019-31334	Big Flat	934' FNL	1,678' FEL	NWNE	34	25S	19E	Grand	Oil Well
ML 44333	Kane Springs	Kane Springs Federal No. 16-1	43-019-31341	Wildcat	960' FSL	1,960' FWL	SESW	16	25S	18E	Grand	Water Disposal
UTU 065972	Cane Creek	Cane Creek No. 1-1 (Permit)	43-019-31446	Wildcat	2,240' FSL	1,317' FWL	NWSW	1	26S	19E	Grand	Oil Well
UTU 068122	Cane Creek	Cane Creek No.8-1 (Permit)	43-019-31449	Wildcat	2,563' FNL	1,429' FWL	SENW	8	26S	20E	Grand	Oil Well
UTU 046693	Cane Creek	Cane Creek 24-1 (Permit)	43-019-31447	Wildcat	682' FNL	2,829' FEL	NENW	24	26S	19E	Grand	Oil Well



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155



IN REPLY REFER TO
3180
UT-922

DEC 19 2006

Babcock & Brown Energy Inc.
1512 Larimer, Suite 550
Denver, CO 80202

Re: Cane Creek Unit
Grand & San Juan Counties,

Gentlemen:

On December 18, 2006, we received an indenture dated October 1, 2006, whereby Intrepid Oil & Gas LLC resigned as Unit Operator and Babcock & Brown Energy Inc. was designated as Successor Unit Operator for the Cane Creek Unit, Grand and San Juan Counties, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective December 19, 2006. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Cane Creek Unit Agreement.

Your statewide (Utah) oil and gas Bond No. UTB000240 will be used to cover all operations within the Cane Creek Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

/s/ Douglas Cook

Douglas Cook
Chief, Branch of Fluid Minerals

Enclosure

bcc: Field Manager -Moab (w/enclosure)
SITLA
Division of Oil, Gas & Mining
Dockets
File -Cane Creek Unit (w/enclosure)
Agr. Sec. Chron
Reading File
Central Files
CSeare:cs12/19/06Babcock

RECEIVED

DEC 21 2006

DIV. OF OIL, GAS & MINING

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. DJJ

2. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

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

1/1/2008

FROM: (Old Operator): N3135-Babcock & Brown Energy, Inc. 1512 Larimer St, Suite 550 Denver, CO 80202 Phone: 1 (303) 460-1132	TO: (New Operator): N3155-Fidelity Exploration & Production Co 1700 Broadway, Suite 2800 Denver, CO 80203 Phone: 1 (303) 893-3133
---	--

CA No.		Unit:		CANE CREEK				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
KANE SPRINGS FED 27-1	27	250S	190E	4301931310	14506	FEDERAL	OW	P
KANE SPRINGS FED 19-1A	19	260S	200E	4301931324	14507	FEDERAL	OW	P
KANE SPRINGS FED 10-1	10	250S	180E	4301931331	14509	FEDERAL	OW	P
KANE SPRINGS FED 25-19-34-1	34	250S	190E	4301931334	14511	FEDERAL	OW	P
KANE SPRINGS 16-1	16	250S	180E	4301931341	11484	STATE	WD	A
CANE CREEK 2-1	02	260S	190E	4301931396	14505	STATE	OW	P

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: 1/11/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/11/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/28/2008
- Is the new operator registered in the State of Utah: yes Business Number: 4917099-0143
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: _____
- 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
- 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")** 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: 1/29/2008

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 1/31/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 1/31/2008
- Bond information entered in RBDMS on: 1/31/2008
- Fee/State wells attached to bond in RBDMS on: 1/31/2008
- Injection Projects to new operator in RBDMS on: 1/31/2008
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: CO1345
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 190017646
- The **FORMER** operator has requested a release of liability from their bond on: not yet

LEASE INTEREST OWNER NOTIFICATION:

- (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: 3 Wells on list were previously moved due to Designation of Agent

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.

		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Exhibit
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: See Attached Exhibit
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: See Attached Exhibit
2. NAME OF OPERATOR: Fidelity Exploration & Production Company <i>N3/55</i>		9. API NUMBER: See Attach
3. ADDRESS OF OPERATOR: 1700 Broadway, Suite 2800 CITY Denver STATE CO ZIP 80203		PHONE NUMBER: (303) 893-3133
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED EXHIBIT FOR ALL WELLS AND DETAILS		COUNTY:
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 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 January 1, 2008, Babcock & Brown Energy Inc. resigned as Operator of the wells listed on the attached Exhibit and Fidelity Exploration & Production Company has been designated as successor Operator. Concurrent with this action, Babcock & Brown Energy Inc. resigns as Operator of these wells and names Fidelity Exploration & Production Company as successor Operator. BLM Blanket Bond Number CO1345 and Utah OGCC Blanket Bond Number 190017646 will be used to cover operations by Fidelity Exploration & Production Company.

BABCOCK & BROWN ENERGY INC. *N3/35*

By *[Signature]*
 Van Z. Spence, Resident
1512 Larimer St., Suite 550
Denver Co 80202
(303) 460-1132

NAME (PLEASE PRINT) Michael C. Caskey TITLE Executive Vice President & Chief Operating Officer

SIGNATURE *[Signature]* DATE January 1, 2008

(This space for State use only)

APPROVED *1/31/2008*
Earlene Russell
 Division of Oil, Gas and Mining
 Earlene Russell, Engineering Technician

RECEIVED
JAN 11 2008
 DIV. OF OIL, GAS & MINING

EXHIBIT "A"

Attached to Form 9, Change of Operator, from Babcock & Brown Energy Inc. to Fidelity Exploration & Production Company, effective January 1, 2008

LEASE	UNIT	WELL NAME/NUMBER	API NO.	FIELD	LOCATION							TYPE
					Footage	QrtQrt	Sec.	Twp	Rge	County		
UTU 010529	N/A	Long Canyon No. 1	43-019-15925	Long Canyon	2,339' FNL	2,473' FWL	SENW	9	26S	20E	Grand	Oil Well
UTU 065971	Cane Creek	Kane Springs Federal No. 27-1	43-019-31310	Big Flat	1,650' FSL	1,700' FEL	NWSE	27	25S	19E	Grand	Oil Well
UTU 053626	Cane Creek	Kane Springs Federal No. 19-1A ST	43-019-31324	Park Road	800' FSL	1,918' FEL	SWSE	19	26S	20E	Grand	Oil Well
ML-40761 / UTU 065972	Cane Creek	Cane Creek No. 2-1	43-019-31396	Big Flat	2,289' FNL	518' FEL	SENE	2	26S	19E	Grand	Oil Well
UTU 047858	Cane Creek	Kane Springs Federal No. 10-1	43-019-31331	Hell Roaring	2,333' FSL	2,112' FEL	NWSE	10	25S	18E	Grand	Oil Well
UTU 053624	Cane Creek	Kane Springs Federal No. 25-19-34-1	43-019-31334	Big Flat	934' FNL	1,678' FEL	NWNE	34	25S	19E	Grand	Oil Well
ML-44333	Cane Creek	Kane Springs Federal No. 16-1	43-019-31341	Wildcat	960' FSL	1,960' FWL	SESW	16	25S	18E	Grand	Water Disposal
UTU 065972	Cane Creek	Cane Creek No. 1-1* (Permit)	43-019-31446	Wildcat	2,240' FSL	1,317' FWL	NWSW	1	26S	19E	Grand	
UTU 068122	Cane Creek	Cane Creek No. 8-1* (Drilling)	43-019-31449	Wildcat	2,563' FNL	1,429' FWL	SENW	8	26S	20E	Grand	
UTU 065973	Cane Creek	Cane Creek No. 24-1* (Drilling)	43-019-31447	Big Flat	682' FNL	2,829' FEL	NENW	24	26S	19E	Grand	

* previously changed by Designation of Operator

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-47858
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: FIDELITY E&P COMPANY		7. UNIT or CA AGREEMENT NAME: CANE CREEK
3. ADDRESS OF OPERATOR: 1801 California St. Ste 2500 , Denver, CO, 80202		8. WELL NAME and NUMBER: KANE SPRINGS FED 10-1
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2333 FSL 2112 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 10 Township: 25.0S Range: 18.0E Meridian: S		9. API NUMBER: 43019313310000
9. FIELD and POOL or WILDCAT: HELL ROARING		COUNTY: GRAND
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/27/2014	<input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> DRILLING REPORT Report Date:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Produced water generated from this well is disposed of either at the Fidelity-operated Kane Springs 16-1 injection well or the commercial Danish Flats facility in Grand County, Utah.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 29, 2014		
NAME (PLEASE PRINT) Sandi Stocker	PHONE NUMBER 720 931-9637	TITLE Engineering Tech
SIGNATURE N/A	DATE 10/27/2014	

Division of Oil, Gas and Mining
 Operator Change/Name Change Worksheet-for State use only

Effective Date: 3/1/2016

FORMER OPERATOR: Fidelity E&P Company N3155 1801 Californina Street, Suite 2500 Denver, CO 80202	NEW OPERATOR: Wesco Operating, Inc. N4030 PO Box 1650 Casper, WY 82602
CA Number(s):	Unit(s): Cane Creek Threemile

WELL INFORMATION:

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

OPERATOR CHANGES DOCUMENTATION:

- Sundry or legal documentation was received from the **FORMER** operator on: 4/12/2016
- Sundry or legal documentation was received from the **NEW** operator on: 4/12/2016
- New operator Division of Corporations Business Number: 8742016-0143

REVIEW:

- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: 4/12/2016
- Receipt of Acceptance of Drilling Procedures for APD on: 4/12/2016
- Reports current for Production/Disposition & Sundries: 4/19/2016
- OPS/SI/TA well(s) reviewed for full cost bonding: 4/19/2016
- UIC5 on all disposal/injection/storage well(s) approved on: 4/13/2016
- Surface Facility(s) included in operator change: Blue Hills Gas Plant
Dead House Lateral Pipeline
Dubinky Booster Station
Long Canyon Facility
- Inspections of PA state/fee well sites complete on (only upon operators request): N/A

NEW OPERATOR BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB0000685
- Indian well(s) covered by Bond Number: N/A
- State/fee well(s) covered by Bond Number(s): RLB0016443

DATA ENTRY:

- Well(s) update in the **OGIS** on: 4/21/2016 ✓
- Entity Number(s) updated in **OGIS** on: 4/21/2016
- Unit(s) operator number update in **OGIS** on: 4/21/2016
- Surface Facilities update in **OGIS** on: 4/21/2016
- State/Fee well(s) attached to bond(s) in **RBDMS** on: 4/21/2016
- Surface Facilities update in **RBDMS** on: 4/21/2016

LEASE INTEREST OWNER NOTIFICATION:

- The **NEW** operator of the Fee (Mineral) 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:

From: Fidelity Exploration Production Comany N3155

To: Wesco Operating, Inc. N4030

Effective: 3/1/2016

Well Name	Section	TWN	RNG	API Numner	Entity	Mineral	Surface	Type	Status	Unit
KANE SPRINGS 16-1	16	250S	180E	4301931341	11484	State	State	WD	A	CANE CREEK
CANE CREEK UNIT 2-2-25-18	2	250S	180E	4301950044		State	State	OW	APD	CANE CREEK
Cane Creek Unit 25-1-25-19	25	250S	190E	4301950048		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 6-1-25-19	6	250S	190E	4301950052		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 29-1-25-19	29	250S	190E	4301950053		Federal	Federal	OW	APD	CANE CREEK
Cane Creek 10-1-25-19	10	250S	190E	4301950054		Federal	Federal	OW	APD	
Cane Creek Unit 30-1-25-19	30	250S	190E	4301950055		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 19-2-26-20	19	260S	200E	4301950056		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 14-1-25-19	14	250S	190E	4301950057		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 2-3-25-18	2	250S	180E	4301950058		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 16-3-25-18	16	250S	180E	4301950059		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 19-1-25-19	19	250S	190E	4301950060		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 32-2-25-19	32	250S	190E	4301950061		State	State	OW	APD	CANE CREEK
Cane Creek Unit 17-1-25-19	17	250S	190E	4301950062		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 16-4-25-18	16	250S	180E	4301950063		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 2-4-25-18	2	250S	180E	4301950064		Federal	State	OW	APD	CANE CREEK
Cane Creek Unit 5-1-25-18	5	250S	180E	4301950065		Federal	Federal	OW	APD	CANE CREEK
8-2-26-20	8	260S	200E	4301950068		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 19-3-26-20	19	260S	200E	4301950069		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 21-1-25-19	21	250S	190E	4301950070		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 12-2-26-19	12	260S	190E	4301950071		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 26-4-25-19	26	250S	190E	4301950072		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 21-1-25-18	21	250S	180E	4301950073		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 9-1-25-18	9	250S	180E	4301950074		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 7-1-25-19	7	250S	190E	4301950075		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 5-2-25-18	5	250S	180E	4301950076		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 7-1-25-18	7	250S	180E	4301950077		Federal	Federal	OW	APD	CANE CREEK
Cane Creek Unit 13-1-25-18	13	250S	180E	4301950078		Federal	Federal	OW	APD	CANE CREEK
Three Mile Unti 12-3-29-21	12	290S	210E	4303750070		Federal	Federal	OW	APD	THREEMILE
Three Mile Unit 16-2-29-22	16	290S	220E	4303750071		Federal	State	OW	APD	THREEMILE
Cane Creek Unit 7-2-26-20	7	260S	200E	4301950051	19706	Federal	Federal	OW	OPS	CANE CREEK
THREEMILE 16-17	16	290S	220E	4303750003	17984	State	State	OW	OPS	THREEMILE
Three Mile Unit 12-2-29-21	12	290S	210E	4303750069	19646	Federal	Federal	OW	OPS	THREEMILE
KANE SPRINGS FED 27-1	27	250S	190E	4301931310	14505	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 19-1A	19	260S	200E	4301931324	14505	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 10-1	10	250S	180E	4301931331	14509	Federal	Federal	OW	P	CANE CREEK
KANE SPRINGS FED 25-19-34-1	34	250S	190E	4301931334	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK 2-1	2	260S	190E	4301931396	14505	State	State	OW	P	CANE CREEK
CANE CREEK UNIT 12-1	12	260S	190E	4301950009	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 7-1	7	260S	200E	4301950010	18923	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT# 26-2	26	250S	190E	4301950011	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT #18-1	18	260S	200E	4301950012	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK U #13-1	13	260S	190E	4301950014	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 26-3	26	250S	190E	4301950019	14505	Federal	Federal	OW	P	CANE CREEK
CANE CREEK UNIT 28-2	28	250S	190E	4301950020	18681	Federal	Federal	OW	P	
Cane Creek Unit 17-1	17	260S	200E	4301950028	18980	Federal	Federal	OW	P	CANE CREEK
Cane Creek Unit 36-1	36	250S	190E	4301950030	14505	State	State	OW	P	CANE CREEK
Cane Creek Unit 36-2H	36	250S	190E	4301950033	14505	State	State	OW	P	CANE CREEK
Cane Creek Unit 24-2H	24	260S	190E	4301950034	19342	Federal	Federal	OW	P	CANE CREEK
Cane Creek Unit 36-3H	36	250S	190E	4301950035	19528	State	State	OW	P	CANE CREEK
CANE CREEK UNIT 2-1-25-18	2	250S	180E	4301950036	19343	Federal	State	OW	P	CANE CREEK
Cane Creek Unit 32-1-25-19	32	250S	190E	4301950037	19396	State	State	OW	P	
Cane Creek Unit 28-3	28	250S	190E	4301950045	19767	Federal	Federal	OW	P	CANE CREEK
Cane Creek 32-1-25-20	32	250S	200E	4301950049	19588	State	State	OW	P	
HATCH POINT 1	14	290S	210E	4303731658	11356	Federal	Federal	OW	P	
THREEMILE 43-18H	18	290S	220E	4303731857	17276	Federal	Federal	OW	P	
LONG CANYON 1	9	260S	200E	4301915925	674	Federal	Federal	OW	S	
CANE CREEK 1-1	1	260S	190E	4301931446	14505	Federal	Federal	OW	S	CANE CREEK

From: Fidelity Exploration Production Company N3155

To: Wesco Operating, Inc. N4030

Effective: 3/1/2016

CANE CREEK 24-1	24	260S	190E	4301931447	14505	Federal	Federal	OW	S	CANE CREEK
CANE CREEK 8-1	8	260S	200E	4301931449	16464	Federal	Federal	OW	S	CANE CREEK
Cane Creek Unit 18-2	18	260S	200E	4301950027	14505	Federal	Federal	OW	S	CANE CREEK
Cane Creek Unit 17-2	17	260S	200E	4301950032	14505	Federal	Federal	OW	S	CANE CREEK
Cane Creek 36-1-25-18	36	250S	180E	4301950038	19440	State	State	OW	S	
CHEVRON FED 1	24	290S	230E	4303730005	975	Federal	Federal	OW	S	
Threemile 12-7	12	290S	210E	4303750001	17837	Federal	Federal	OW	S	THREEMILE
LA SAL 29-28	29	290S	230E	4303750002	17920	Federal	Federal	OW	S	
CANE CREEK UNIT 16-2-25-18	16	250S	180E	4301950046	19512	State	State	OW	TA	CANE CREEK

WESCO OPERATING, INC.

O I L & G A S O P E R A T I O N S

April 8, 2016

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

RECEIVED
APR 12 2016
DIV. OF OIL, GAS & MINING

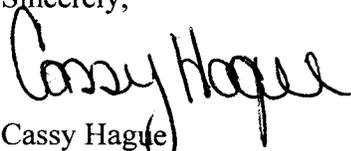
RE: Change of Operator

- A) Wells
 - B) APD'S
 - C) Dubinky Booster Station
 - D) Blue Hills Gas Plant
 - E) Dead Horse Lateral Pipeline
 - F) Authority to Inject
- Sundry Notices

Dear John Rodgers,

Please find enclosed the following documents from Fidelity Exploration & Production Company to Wesco Operating, Inc for your further handing. If you have any further questions please contact us..

Sincerely,



Cassy Hague
307-577-5337

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: See Attached Exhibit
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See Attached Exhibit
		7. UNIT or CA AGREEMENT NAME: See Attached Exhibit
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: See Attached Exhibit	
2. NAME OF OPERATOR: Fidelity Exploration & Production Company		9. API NUMBER:
3. ADDRESS OF OPERATOR: 1801 California St., STE 250 CITY Denver STATE CO ZIP 80202	PHONE NUMBER: (303) 893-3133	10. FIELD AND POOL, OR WILDCAT: See Attached Exhibit
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached exhibit for all wells and details		COUNTY: Grand
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		STATE: UTAH

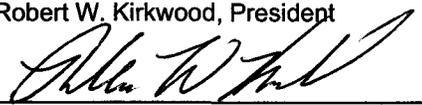
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>3/1/2016</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> 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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the wells listed on the attached exhibit and Wesco Operating, Inc. has been designated as successor Operator.

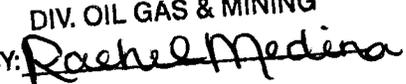
Wesco Operating, Inc.
P.O. Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President

Signature

NAME (PLEASE PRINT) <u>Darwin Subart</u>	TITLE <u>Chief Financial Officer</u>
SIGNATURE 	DATE <u>4/4/2016</u>

(This space for State use only) **BLM:**

APPROVED
APR 21 2016
DIV. OIL GAS & MINING
BY: 

Fidelity Exploration & Production Company Paradox Well & APD List

<u>Entity #</u>	<u>API #</u>	<u>Permitted Well Name</u>	<u>AKA Well Name</u>	<u>Township</u>	<u>Range</u>	<u>Section(s)</u>	<u>County</u>	<u>State</u>	<u>Mineral</u>	<u>Surface</u>	<u>Well Type</u>	<u>Well Status</u>
14506	4301931310	KANE SPRINGS FED 27-1	KANE SPRINGS FED 27-1-25-19	25S	19E	27	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301931324	KANE SPRINGS FED 19-1A	KANE SPRINGS FED 19-1A-ST-26-20	26S	20E	19	GRAND	UT	Federal	Federal	OW	P ✓
14509	4301931331	KANE SPRINGS FED 10-1	KANE SPRINGS FED 10-1-25-18	25S	18E	10	GRAND	UT	Federal	Federal	OW	P ✓
14506	4301931334	KANE SPRINGS FED 25-19-34-1	KANE SPRINGS FED 25-19-34-1	25S	19E	34	GRAND	UT	Federal	Federal	OW	P ✓
	4301931341	KANE SPRINGS 16-1-25-18	Disposal Well	25S	18E	16	GRAND	UT	State	State	SWD	P ✓
14505	4301931396	CANE CREEK 2-1	CANE CREEK UNIT 2-1-26-19	26S	19E	2	GRAND	UT	State	State	OW	P ✓
14505	4301931446	CANE CREEK 1-1	CANE CREEK UNIT 1-1-26-19	26S	19E	1	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950009	CANE CREEK UNIT 12-1	CANE CREEK UNIT 12-1-26-19	26S	19E	12	GRAND	UT	Federal	Federal	OW	P ✓
18923	4301950010	CANE CREEK UNIT 7-1	CANE CREEK UNIT 7-1-26-20	26S	20E	7	GRAND	UT	Federal	Federal	OW	P ✓
14506	4301950011	CANE CREEK UNIT# 26-2	CANE CREEK UNIT 26-2-25-19	25S	19E	26	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950012	CANE CREEK UNIT #18-1	CANE CREEK UNIT 18-1-26-20	26S	20E	18	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950014	CANE CREEK U #13-1	CANE CREEK UNIT 13-1-26-19	26S	19E	13	GRAND	UT	Federal	Federal	OW	P ✓
14506	4301950019	CANE CREEK UNIT 26-3	CANE CREEK UNIT 26-3-25-19	25S	19E	26	GRAND	UT	Federal	Federal	OW	P ✓
18681	4301950020	CANE CREEK UNIT 28-2	CANE CREEK UNIT 28-2-25-19	25S	19E	28	GRAND	UT	Federal	Federal	OW	P ✓
14505	4301950027	Cane Creek Unit 18-2	CANE CREEK UNIT 18-2-26-20	26S	20E	18	GRAND	UT	Federal	Federal	OW	P ✓
18980	4301950028	Cane Creek Unit 17-1	CANE CREEK UNIT 17-1-26-20	26S	20E	17	GRAND	UT	Federal	Federal	OW	P ✓
19057	4301950030	Cane Creek Unit 36-1	CANE CREEK UNIT 36-1-25-19	25S	19E	36	GRAND	UT	State	State	OW	P ✓
14505	4301950032	Cane Creek Unit 17-2	CANE CREEK UNIT 17-2-26-20	26S	20E	17	GRAND	UT	Federal	Federal	OW	P ✓
19527	4301950033	Cane Creek Unit 36-2H	CANE CREEK UNIT 36-2H-25-19	25S	19E	36	GRAND	UT	State	State	OW	P ✓
19342	4301950034	Cane Creek Unit 24-2H	CANE CREEK UNIT 24-2-26-19	26S	19E	24	GRAND	UT	Federal	Federal	OW	P ✓
19528	4301950035	Cane Creek Unit 36-3H	CANE CREEK UNIT 36-3H-25-19	25S	19E	36	GRAND	UT	State	State	OW	P ✓
19396	4301950037	Cane Creek Unit 32-1-25-19	CANE CREEK UNIT 32-1-25-19	25S	19E	32	GRAND	UT	State	State	OW	P ✓
19767	4301950045	Cane Creek Unit 28-3	CANE CREEK UNIT 28-3-25-19	26S	19E	28	GRAND	UT	Federal	Federal	OW	P ✓
19588	4301950049	Cane Creek 32-1-25-20	CANE CREEK 32-1-25-20	25S	20E	32	GRAND	UT	State	State	OW	P ✓
11356	4303731658	HATCH POINT 1	HATCH POINT FEDERAL 1	29S	21E	14	SAN JUAN	UT	Federal	Federal	OW	P ✓ 26-P
17276	4303731857	THREEMILE 43-18H	THREEMILE UNIT 43-18H-29-22	29S	22E	18	SAN JUAN	UT	Federal	Federal	OW	P ✓
19706	4301950051	Cane Creek Unit 7-2-26-20	CANE CREEK UNIT 7-2-26-20	26S	20E	7	GRAND	UT	Federal	Federal	OW	OPS ✓
17984	4303750003	THREEMILE 16-17	THREEMILE UNIT 16-17-29-22	29S	22E	16	SAN JUAN	UT	State	State	OW	OPS ✓ 3 OPS
19646	4303750069	Three Mile Unit 12-2-29-21	THREE MILE UNIT 12-2-29-21	29S	21E	12	SAN JUAN	UT	Federal	Federal	OW	OPS ✓
19343	4301950036	CANE CREEK UNIT 2-1-25-18	CANE CREEK UNIT 2-1-25-18	25S	18E	2	GRAND	UT	Federal	State	OW	TA ✓ 2TA
19512	4301950046	CANE CREEK UNIT 16-2-25-18	CANE CREEK UNIT 16-2-25-18	25S	18E	16	GRAND	UT	State	State	OW	TA ✓
674	4301915925	LONG CANYON 1	LONG CANYON 1	26S	20E	9	GRAND	UT	Federal	Federal	OW	S ✓
14505	4301931447	CANE CREEK 24-1	CANE CREEK UNIT 24-1-26-19	26S	19E	24	GRAND	UT	Federal	Federal	OW	S ✓
16464	4301931449	CANE CREEK 8-1	CANE CREEK UNIT 8-1-26-20	26S	20E	8	GRAND	UT	Federal	Federal	OW	S ✓
19440	4301950038	Cane Creek 36-1-25-18	CANE CREEK 36-1-25-18	25S	18E	36	GRAND	UT	State	State	OW	S ✓
975	4303730005	CHEVRON FED 1	CHEVRON FEDERAL 1H	29S	23E	24	SAN JUAN	UT	Federal	Federal	OW	S ✓ 7-S
17837	4303750001	Threemile 12-7	THREEMILE UNIT 12-7-29-21	29S	21E	12	SAN JUAN	UT	Federal	Federal	OW	S ✓
17920	4303750002	LA SAL 29-28	LA SAL UNIT 29-28-29-23	29S	23E	29	SAN JUAN	UT	Federal	Federal	OW	S ✓
	4301950044	CANE CREEK UNIT 2-2-25-18		250S	180E	2	GRAND	UT	State	State	OW	APD ✓
	4301950048	Cane Creek Unit 25-1-25-19		250S	190E	25	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950052	Cane Creek Unit 6-1-25-19		250S	190E	6	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950053	Cane Creek Unit 29-1-25-19		250S	190E	29	GRAND	UT	Federal	Federal	OW	APD ✓ 2APD
	4301950054	Cane Creek 10-1-25-19		250S	190E	10	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950055	Cane Creek Unit 30-1-25-19		250S	190E	30	GRAND	UT	Federal	Federal	OW	APD ✓
	4301950056	Cane Creek Unit 19-2-26-20		260S	200E	19	GRAND	UT	Federal	Federal	OW	APD ✓

<u>Entity #</u>	<u>API #</u>	<u>Permitted Well Name</u>	<u>AKA Well Name</u>	<u>Township</u>	<u>Range</u>	<u>Section(s)</u>	<u>County</u>	<u>State</u>	<u>Mineral</u>	<u>Surface</u>	<u>Well Type</u>	<u>Well Status</u>
4301950057		Cane Creek Unit 14-1-25-19		250S	190E	14	GRAND	UT	Federal	Federal	OW	APD ✓
4301950058		Cane Creek Unit 2-3-25-18		250S	180E	2	GRAND	UT	Federal	State	OW	APD ✓
4301950059		Cane Creek Unit 16-3-25-18		250S	180E	16	GRAND	UT	Federal	State	OW	APD ✓
4301950060		Cane Creek Unit 19-1-25-19		250S	190E	19	GRAND	UT	Federal	Federal	OW	APD ✓
4301950061		Cane Creek Unit 32-2-25-19		250S	190E	32	GRAND	UT	State	State	OW	APD ✓
4301950062		Cane Creek Unit 17-1-25-19		250S	190E	17	GRAND	UT	Federal	Federal	OW	APD ✓
4301950063		Cane Creek Unit 16-4-25-18		250S	180E	16	GRAND	UT	Federal	State	OW	APD ✓
4301950064		Cane Creek Unit 2-4-25-18		250S	180E	2	GRAND	UT	Federal	State	OW	APD ✓
4301950065		Cane Creek Unit 5-1-25-18		250S	180E	5	GRAND	UT	Federal	Federal	OW	APD ✓
4301950068		8-2-26-20		260S	200E	8	GRAND	UT	Federal	Federal	OW	APD ✓
4301950069		Cane Creek Unit 19-3-26-20		260S	200E	19	GRAND	UT	Federal	Federal	OW	APD ✓
4301950070		Cane Creek Unit 21-1-25-19		250S	190E	21	GRAND	UT	Federal	Federal	OW	APD ✓
4301950071		Cane Creek Unit 12-2-26-19		260S	190E	12	GRAND	UT	Federal	Federal	OW	APD ✓
4301950072		Cane Creek Unit 26-4-25-19		250S	190E	26	GRAND	UT	Federal	Federal	OW	APD ✓
4301950073		Cane Creek Unit 21-1-25-18		250S	180E	21	GRAND	UT	Federal	Federal	OW	APD ✓
4301950074		Cane Creek Unit 9-1-25-18		250S	180E	9	GRAND	UT	Federal	Federal	OW	APD ✓
4301950075		Cane Creek Unit 7-1-25-19		250S	190E	7	GRAND	UT	Federal	Federal	OW	APD ✓
4301950076		Cane Creek Unit 5-2-25-18		250S	180E	5	GRAND	UT	Federal	Federal	OW	APD ✓
4301950077		Cane Creek Unit 7-1-25-18		250S	180E	7	GRAND	UT	Federal	Federal	OW	APD ✓
4301950078		Cane Creek Unit 13-1-25-18		250S	180E	13	GRAND	UT	Federal	Federal	OW	APD ✓
4303750070		Three Mile Unti 12-3-29-21		290S	210E	12	SAN JUAN	UT	Federal	Federal	OW	APD ✓
4303750071		Three Mile Unit 16-2-29-22		290S	220E	16	SAN JUAN	UT	Federal	State	OW	APD ✓
4301950036		CANE CREEK UNIT 2-1-25-18H2		25S	18E	2	GRAND	UT	Federal	State	OW	APD ✓

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

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	See attached well list
API number:	
Location:	Qtr-Qtr: Section: Township: Range:
Company that filed original application:	Fidelity Exploration & Production Company
Date original permit was issued:	
Company that permit was issued to:	Fidelity Exploration & Production Company

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. _____	<input type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Robert W. Kirkwood Title President
 Signature *Robert W. Kirkwood* Date 4/4/10
 Representing (company name) Wesco Operating, Inc.

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

Fidelity Exploration & Production Company Paradox APD List

<u>Date Issued</u>	<u>API #</u>	<u>Permitted Well Name</u>	<u>Township</u>	<u>Range</u>	<u>Section(s)</u>	<u>County</u>	<u>State</u>	<u>Mineral</u>	<u>Surface</u>	<u>Well Type</u>	<u>Well Status</u>
3/4/2014	4301950044	CANE CREEK UNIT 2-2-25-18	250S	180E	2	GRAND	UT	State	State	OW	APD
2/19/2015	4301950048	Cane Creek Unit 25-1-25-19	250S	190E	25	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950052	Cane Creek Unit 6-1-25-19	250S	190E	6	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950053	Cane Creek Unit 29-1-25-19	250S	190E	29	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950054	Cane Creek 10-1-25-19	250S	190E	10	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950055	Cane Creek Unit 30-1-25-19	250S	190E	30	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950056	Cane Creek Unit 19-2-26-20	260S	200E	19	GRAND	UT	Federal	Federal	OW	APD
6/26/2014	4301950057	Cane Creek Unit 14-1-25-19	250S	190E	14	GRAND	UT	Federal	Federal	OW	APD
7/21/2014	4301950058	Cane Creek Unit 2-3-25-18	250S	180E	2	GRAND	UT	Federal	State	OW	APD
8/6/2014	4301950059	Cane Creek Unit 16-3-25-18	250S	180E	16	GRAND	UT	Federal	State	OW	APD
8/6/2014	4301950060	Cane Creek Unit 19-1-25-19	250S	190E	19	GRAND	UT	Federal	Federal	OW	APD
9/22/2014	4301950061	Cane Creek Unit 32-2-25-19	250S	190E	32	GRAND	UT	State	State	OW	APD
7/30/2014	4301950062	Cane Creek Unit 17-1-25-19	250S	190E	17	GRAND	UT	Federal	Federal	OW	APD
8/12/2014	4301950063	Cane Creek Unit 16-4-25-18	250S	180E	16	GRAND	UT	Federal	State	OW	APD
9/24/2014	4301950064	Cane Creek Unit 2-4-25-18	250S	180E	2	GRAND	UT	Federal	State	OW	APD
9/2/2014	4301950065	Cane Creek Unit 5-1-25-18	250S	180E	5	GRAND	UT	Federal	Federal	OW	APD
11/25/2014	4301950068	8-2-26-20	260S	200E	8	GRAND	UT	Federal	Federal	OW	APD
12/19/2014	4301950069	Cane Creek Unit 19-3-26-20	260S	200E	19	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950070	Cane Creek Unit 21-1-25-19	250S	190E	21	GRAND	UT	Federal	Federal	OW	APD
1/13/2015	4301950071	Cane Creek Unit 12-2-26-19	260S	190E	12	GRAND	UT	Federal	Federal	OW	APD
1/13/2015	4301950072	Cane Creek Unit 26-4-25-19	250S	190E	26	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950073	Cane Creek Unit 21-1-25-18	250S	180E	21	GRAND	UT	Federal	Federal	OW	APD
1/20/2015	4301950074	Cane Creek Unit 9-1-25-18	250S	180E	9	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950075	Cane Creek Unit 7-1-25-19	250S	190E	7	GRAND	UT	Federal	Federal	OW	APD
1/20/2015	4301950076	Cane Creek Unit 5-2-25-18	250S	180E	5	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950077	Cane Creek Unit 7-1-25-18	250S	180E	7	GRAND	UT	Federal	Federal	OW	APD
1/14/2015	4301950078	Cane Creek Unit 13-1-25-18	250S	180E	13	GRAND	UT	Federal	Federal	OW	APD
7/8/2014	4303750070	Three Mile Unti 12-3-29-21	290S	210E	12	SAN JUAN	UT	Federal	Federal	OW	APD
10/2/2014	4303750071	Three Mile Unit 16-2-29-22	290S	220E	16	SAN JUAN	UT	Federal	State	OW	APD
12/16/2014	4301950036	Cane Creek Unit 2-1-25-18 H2	25S	18E	2	GRAND	UT	Federal	State	OW	APD

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-90108

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:
Blue Hills Gas Plant

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

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 GAS WELL OTHER Blue Hills Gas Plant

2. NAME OF OPERATOR:
Fidelity Exploration & Production Company

3. ADDRESS OF OPERATOR:
1801 California St., STE 2500 CITY Denver STATE CO ZIP 80202 PHONE NUMBER:
(303) 893-3133

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: <u>3/1/2016</u>	<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 March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Blue Hills Gas Plant located in T23S-R19E, Sections 20, 29. Wesco Operating, Inc. has been named as successor Operator.

Wesco Operating, Inc.
P.O Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President

Signature *Robert W. Kirkwood*

NAME (PLEASE PRINT) Darwin Subart TITLE Chief Financial Officer
SIGNATURE *Darwin Subart* DATE 4/14/2016

(This space for State use only)

APPROVED

APR 21 2016

DIV. OIL GAS & MINING
BY: *Rachael Medina*

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.

		5. LEASE DESIGNATION AND SERIAL NUMBER:
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Compressor Booster Station</u>		8. WELL NAME and NUMBER: Dubinky Booster Station
2. NAME OF OPERATOR: Fidelity Exploration & Production Company		9. API NUMBER:
3. ADDRESS OF OPERATOR: 1801 California St., STE 2500 CITY <u>Denver</u> STATE <u>CO</u> ZIP <u>80202</u>		10. FIELD AND POOL, OR WLD/CAT:
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: <u>3/1/2016</u>	<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"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<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	

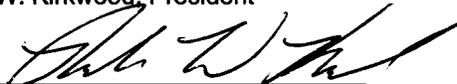
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Dubinky Booster Station located along Dubinky Road, approximately 18 miles northwest of Moab, 599142 E 4280872 N UTM Zone 12, NAD83. Wesco Operating, Inc. has been named as successor Operator.

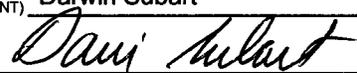
Wesco Operating, Inc.
P.O. Box 1650
Casper, Wyoming 82602
Phone 307-265-5178

Fidelity Exploration & Production Company
1801 California Street, Suite 2500
Denver, Colorado 80202
Phone 303-893-3133

Wesco Operating, Inc.
Robert W. Kirkwood, President



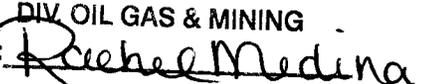
Signature

NAME (PLEASE PRINT) <u>Darwin Subart</u>	TITLE <u>Chief Financial Officer</u>
SIGNATURE 	DATE <u>4/4/2016</u>

(This space for State use only)

APPROVED

APR 21 2016

DIV OIL GAS & MINING
BY: 

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

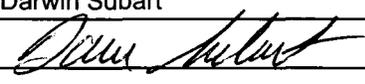
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

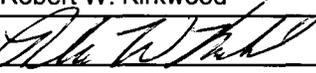
Well Name and Number Kane Springs 16-1	API Number 4301931341
Location of Well Footage : 960' FSL 1960' FWL County : Grand	Field or Unit Name Cane Creek
QQ, Section, Township, Range: SESW 16 25 18 State : UTAH	Lease Designation and Number ML-44333

EFFECTIVE DATE OF TRANSFER: 3/1/2016

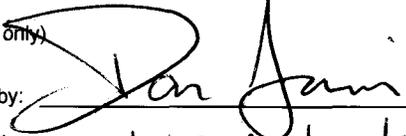
CURRENT OPERATOR

Company: <u>Fidelity Exploration & Production Company</u>	Name: <u>Darwin Subart</u>
Address: <u>1801 California Street, Suite 2500</u>	Signature: <u></u>
city <u>Denver</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Chief Financial Officer</u>
Phone: <u>(303) 893-3133</u>	Date: <u>4/4/2016</u>
Comments:	

NEW OPERATOR

Company: <u>Wesco Operating, Inc.</u>	Name: <u>Robert W. Kirkwood</u>
Address: <u>P.O. Box 1650</u>	Signature: <u></u>
city <u>Casper</u> state <u>WY</u> zip <u>82602</u>	Title: <u>President</u>
Phone: <u>(307) 265-5178</u>	Date: <u>4/7/16</u>
Comments:	

(This space for State use only)

Transfer approved by:  Approval Date: 4/13/16

Title: UIC Geologist

Comments: