

**COLUMBIA GAS**

Development



October 25, 1990

**VIA AIRBORNE EXPRESS**DIVISION OF  
OIL, GAS & MININGSTATE OF UTAH NATURAL RESOURCES  
Oil & Gas Mining  
355 W. North Temple, 3 Triad Center, Ste.#350  
Salt Lake City, Utah 84180-1203

ATTN: PERMITTING DEPT.

RE: COLUMBIA GAS DEVELOPMENT CORP.  
KANE SPRING FEDERAL #27-1  
SEC. 27, T25S, R19E  
GRAND COUNTY, UTAH

Gentlemen:

Pursuant to The Oil & Gas Conservation General Rule R615-3-4 (3), enclosed please find two copies of the completed Bureau of Land Management Application for Permit to Drill with all the required attachments for your approval.

Columbia Gas Development respectfully requests that the supplemental information submitted with the Application for Permit to Drill regarding the above referenced location be kept confidential for the maximum amount of time available.

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

Sincerely,

COLUMBIA GAS DEVELOPMENT CORP.

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

Aline A. Reese  
RegulatoryAAR  
Encl.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**  
OCT 19 1990

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-65971

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

7. UNIT AGREEMENT NAME  
N/A

8. FARM OR LEASE NAME  
Kane Spring Federal

9. WELL NO.  
#27-1 *Bartlett Plat 105*

10. FIELD AND FOOT, OR WILDCAT  
*Cane Creek for*  
Wildcat/mation objective

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec.27, T25S, R19E

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 Horizontal SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
Columbia Gas Development Corp. *OIL, GAS & MINING 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 1700' FEL & 1650' FSL of Sec.27, T25S, R19E  
At proposed prod. zone Cane Creek Intercept: 1901' FSL & ~~1824'~~  
PBHL: 1400 FNL & 2800 FEL *NWSE* 1824' FEL @ 7183TVD

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approx. 16 1/2 miles NW of Moab

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1650'

16. NO. OF ACRES IN LEASE  
840 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL  
640 acres

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

19. PROPOSED DEPTH *PROX*  
7200 TVD/9700 MD

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GR 5763'

22. APPROX. DATE WORK WILL START\*  
12/15/90

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Set	20"	94#	540'	To Sfc. w/490 sx Class "B"
17 1/2	13 3/8	61#	4600'	265 sx Lite + 415 sx Cl-"B"
12 1/4	9 5/8	53#	7453'	1135 sx Cl-"G"

---See attached for additional supplemental information---

- Eight Point Drilling Program
- Multi-Point Surface Use Program
- Directional Plan
- BOPE Diagram
- Certified surveyor's plat, Cut & Fill Sheet
- Area Topog

**RECEIVED**  
OCT 26 1990

**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 A. A. Reese TITLE Regulatory Clerk DATE 10/23/90

(This space for Federal or State office use)

PERMIT NO. 43-019-31310

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

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

DATE: 10/23/90  
BY: [Signature]  
WELL SPACING: 605-3-3

\*See Instructions On Reverse Side

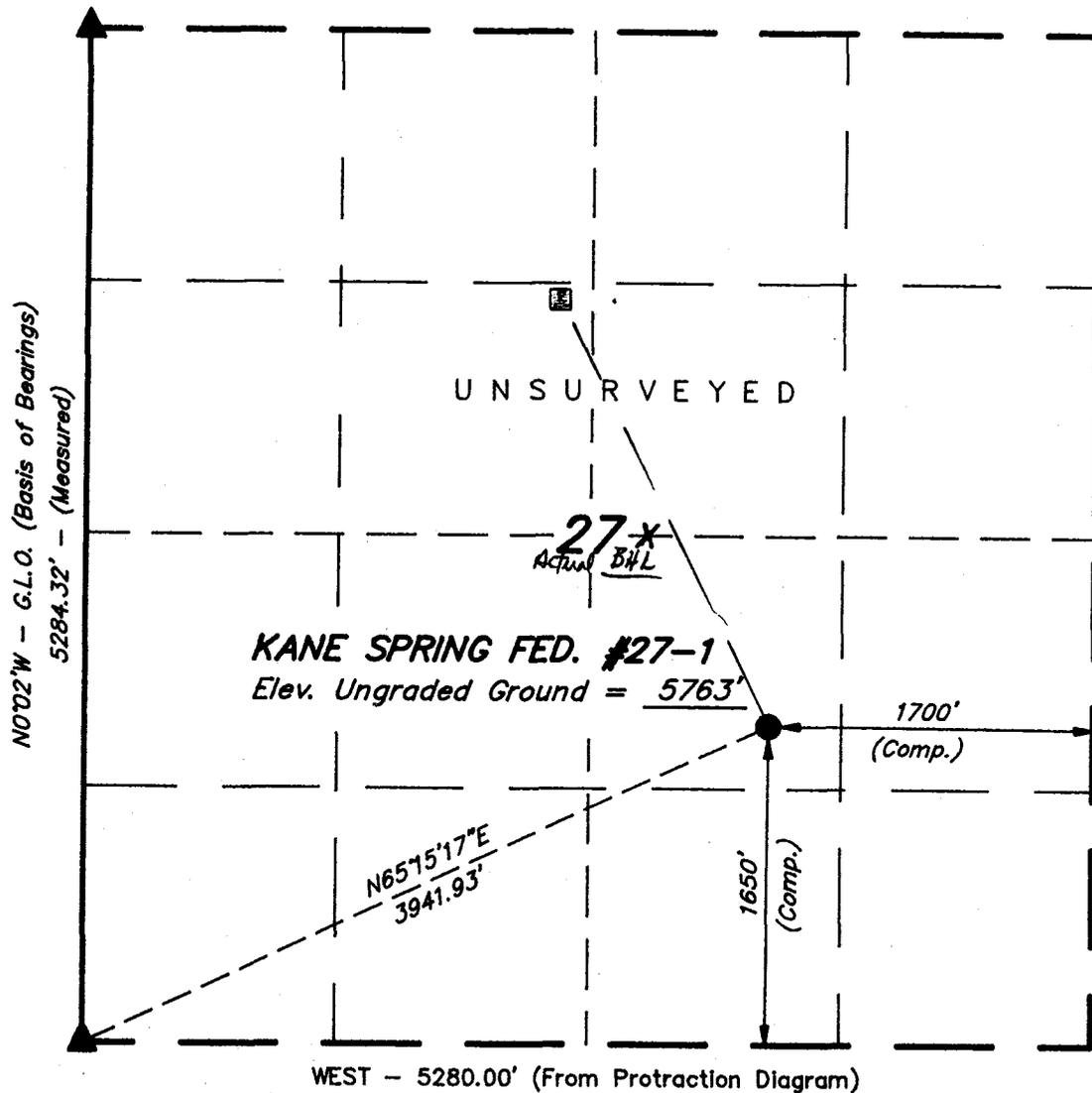
T25S, R19E, S.L.B.&M.

**COLUMBIA GAS DEVELOPMENT CORP.**

Well location KANE SPRING FED. #27-1,  
located as shown in the NW 1/4 SE 1/4  
of Section 27, T25S, R19E, S.L.B.&M.  
Grand County, Utah.

BASIS OF ELEVATION

TRIANGULATION STATION THE KNOLL VABM 6316, 1937  
LOCATED IN THE SE 1/4 OF SECTION 11, T26S, R19E,  
S.L.B.&M. TAKEN FROM THE KNOLL QUADRANGLE, UTAH,  
15 MINUTE SERIES QUAD. (TOPOGRAPHICAL MAP)  
PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR. GEOLOGICAL SURVEY.  
SAID ELEVATION IS MARKED AS BEING 6316 FEET.



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. Gray*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 5709  
STATE OF UTAH.

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

SCALE 1" = 1000'	DATE 8-23-90
PARTY G.S. J.F. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER WARM, CLEAR	FILE COLUMBIA GAS

▲ = SECTION CORNERS LOCATED. (Brass Caps)

MULTI-POINT SURFACE USE PROGRAM

COMPANY: COLUMBIA GAS DEVELOPMENT CORP.  
WELL NAME: KANE SPRING FEDERAL #27-1  
LOCATION: 1700' FEL & 1650' FSL  
SEC.27, T15S, R19E  
COUNTY/STATE: GRAND COUNTY, UT.  
LEASE: UTU-65971

1. EXISTING ROADS

- A. Existing roads & location in relation to location submitted on Exhibit "A".
- B. From Moab, Ut.:  
Travel north on 191 for approx. 9 miles - at the Dead Horse Point & Canyonlands Park Sign turn left onto 313 and travel approx. 7 miles. Turn left off 313 onto a dirt road. Stay on dirt road for 1/2 a mile location will be on the right.
- C. Description of roads in area: Asphalt, all weather.

2. PROPOSED ACCESS AND LOCATION

- A. 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 location.
- B. Access and surface location under the jurisdiction of the BLM.
- C. Surfacing: Natural
- D. Columbia Gas Development Corporation will provide dirt contractor with required maps, pad and road construction plans.

4. LOCATION OF EXISTING AND PROPOSED PRODUCTION FACILITIES AND LINES

- A. Notification will be given to the BLM District Office with sufficient lead time, prior to construction of production facilities.

B. If the 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. A wind-sock will be placed on the tank battery so it is visible from all parts of the location.
3. All internal combustion engines associated with production facilities will be equipped with noise reducing mufflers.
4. All facilities will be painted a nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee, within six (6) months of installation.
5. Columbia will maintain vegetative control on the area of operation including a 30 foot minimum bare ground area around any source of open fire. Columbia will maintain the area to be cleared by means of chemicals only after the Bureau of Land Management has given specific written approval. Application for such approval will be in writing and will specify the time method, chemicals, and the exact portion of the area to be chemically treated.
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 well head 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 24 hours to the District Office.
9. Columbia will fence reserve pit on three non-working sides during drilling. After drilling is completed, the fourth side of the pit will be fenced until the pit is reclaimed.

5. LOCATION AND TYPE OF WATER SUPPLY

Fresh water & Salt water to 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 OF HANDLING WASTE MATERIAL DISPOSAL

- A. Cuttings will be deposited in reserve pit.
- B. Drilling Fluids will be deposited in reserve pit.
- C. Produced Water: While testing 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.
- D. Sewage will be disposed of according to county and state requirements in a portable chemical toilet or in a hole at least 15 feet deep excavated in the cut portion of the well pad.
- E. Portable dumpsters will be used for all trash. All Trash will be hauled offsite.
- F. Reserve Pit will be lined according to Bureau of Land Management guideline.
- G. Produced waste water will be confined to a pit for a period not to exceed Ninety (90) days after initial production. During the Ninety (90) days, an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Order No.3 (NTL 2-B)

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

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

As well as a cross section diagram showing cuts & fills in relation to existing topography.

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

Topsoil will be stripped to a depth of 6-8 inches. No topsoil stripping will be done when soils are moisture saturated to a depth of 3 inches, or frozen below stripping depth.

All construction activities will be confined to the minimum area necessary.

#### 10. PLANS FOR RECLAMATION OF SURFACE

1. 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.

2. If the well is a producer, site rehabilitation will be completed within six 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.
3. At such time as the well is abandoned, Columbia will contact the District Office for development of the final rehabilitation plan.
4. If this well is a non-producer, the location will be rehabilitated within six months from the date the well is plugged.
5. At such time as the well is abandoned, Columbia will identify the well location with the appropriate information as required by state law.

#### 11. SURFACE OWNERSHIP

Surface owned by the United States of America, under jurisdiction of the Bureau of Land Management.

#### 12. OTHER INFORMATION

- A. An intensive pedestrian survey and an inspection of existing records were performed for this location.

The files search revealed three sites, one site lead and two previously conducted surveys. The three sites and one site lead were all located outside of the proposed project area. No cultural resources were found during our field survey.

- B. If any cultural values are observed during construction and operations, they will be left intact and the Area Officer of the BLM District Office will be notified. Columbia Gas Development Corp. is to comply with the requirements set forth by the BLM Surface Use Stipulations.
- C. Columbia Gas Development Corp. has a One hundred and Fifty Thousand dollar (150,000) Nationwide Bond - copy attached.
- D. The closest town is Moab UT. located approx. 13 miles to the south east of the proposed location.
- E. There will be no deviation from the proposed drilling program without prior approval from the 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 3164.

The dirt contractor will be provided with an approved copy of the Surface Use Plan.

13. LESSEE OR OPERATOR REPRESENTATIVE AND CERTIFICATION

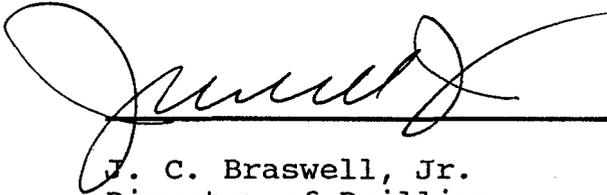
Columbia Gas Development Corporation  
P. O. Box 1350  
Houston, Tx. 77251-1350

CERTIFICATION

I hereby certify that I, or persons under by direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct and that the work associated with the operations proposed herein will be performed by Columbia Gas Development Corp. and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it was approved.

This statement is subject to the provisions of 18

U.S.C. 1001 for the filing of a false statement.

A handwritten signature in black ink, appearing to read "J. C. Braswell, Jr.", is written over a solid horizontal line.

J. C. Braswell, Jr.  
Director of Drilling  
Columbia Gas Development Corporation  
Tel. 713/871-3400

Executed on this 23 day of October - , 1990.



October 23, 1990

BUREAU OF LAND MANAGEMENT  
Moab District  
82 East Dogwood  
Moab, Utah 84532

RE: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**LETTER OF CERTIFICATION**

Columbia Gas Development Corporation hereby certifies that it is the operator of the Kane Spring Federal #27-1 well.

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 23<sup>rd</sup> day of October, 1990.

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

CNT

EIGHT-POINT DRILLING PROGRAM

COMPANY: Columbia Gas Development Corporation  
WELL NAME: Kane Spring Federal #27-1  
LOCATION: Sec. 27, T25S, R19E, Grand County, Utah

Onsite Inspection Date: September 12, 1990

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>
Kayenta	Surface	+5763
Wingate	198	+5565
Chinle	518	+5245
Moonkopi	898	+4865
Cutter	1403	+4360
Rico	2178	+3585
Hermosa	2638	+3125
Paradox Salt	4190	+1573
Cane Creek	7180	-1417

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

<u>Formation Tops</u>	<u>Depth</u>	<u>Subsea</u>	<u>Remarks</u>
Kayenta	Surface	+5763	Fresh Water
Cane Creek	7180	-1417	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 surface pipe. See Exhibit C-1.

One (1) annular bag-type and two (2) ram-type preventers will be utilized while drilling below the intermediate pipe. Tam 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.

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 mechanic 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>
0-570'	20"	94	H40	STC	1530/7.0	520/2.4	581M#/12.3

Set 50' into the Chinle. Cemented to surface with 490sx 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>
0-4600'	13-3/8	61	K55	STC	3090/1.1	1540/1.1	633M/2.2

Cemented to 3600' with 265sx lightweight plus 415sx Class B. Pressure test to 2160 psi before drilling out shoe.

Collapse design based on .2 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>
0-7453'	9-5/8	53	S95	LTC	9410/1.9	8850/1.2	1235M/3.0

Cemented to 4600' with 1135sx Class G. 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 .2 psi/ft oil gradient.

##### 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>
7000-9453'	5-1/2	20	S95	BTC	10680/NA	10680/1.6	554M/10.4

Bottom 2000' 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.

#### 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>
0-570'	8.4	26-28	1-4	4	NC	FW & Gel
570-4600'	---	---	---	--	--	Air/Mist
4600-7150'TVD	9.6	32-36	8	12	<10	Oil Base
7150-7200'TVD	9.6-12.5	32-36	10	12	<10	Oil Base
7200'TVD	14.0	34-37	15	12	<10	Oil Base

#### 6. Testing, Logging and Coring Programs

A. Drill Stem Tests: None planned.

B. Well Logging and Intervals:

Induction/Sonic/GR 570-4600'

Induction/Sonic/GR 4600-6500'TVD

MWD-Induction/GR will be attempted in the horizontal section (7453-9453'MD, 7210'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 6786' and then drilled as a medium radius horizontal well in the direction of N 26° W for a total displacement of 2500'. 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 4600' to TD.

F. Mud Logger: There will be a mud logger on location 4600' (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 well 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 December 1, 1990.

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 December 15, 1990. 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.

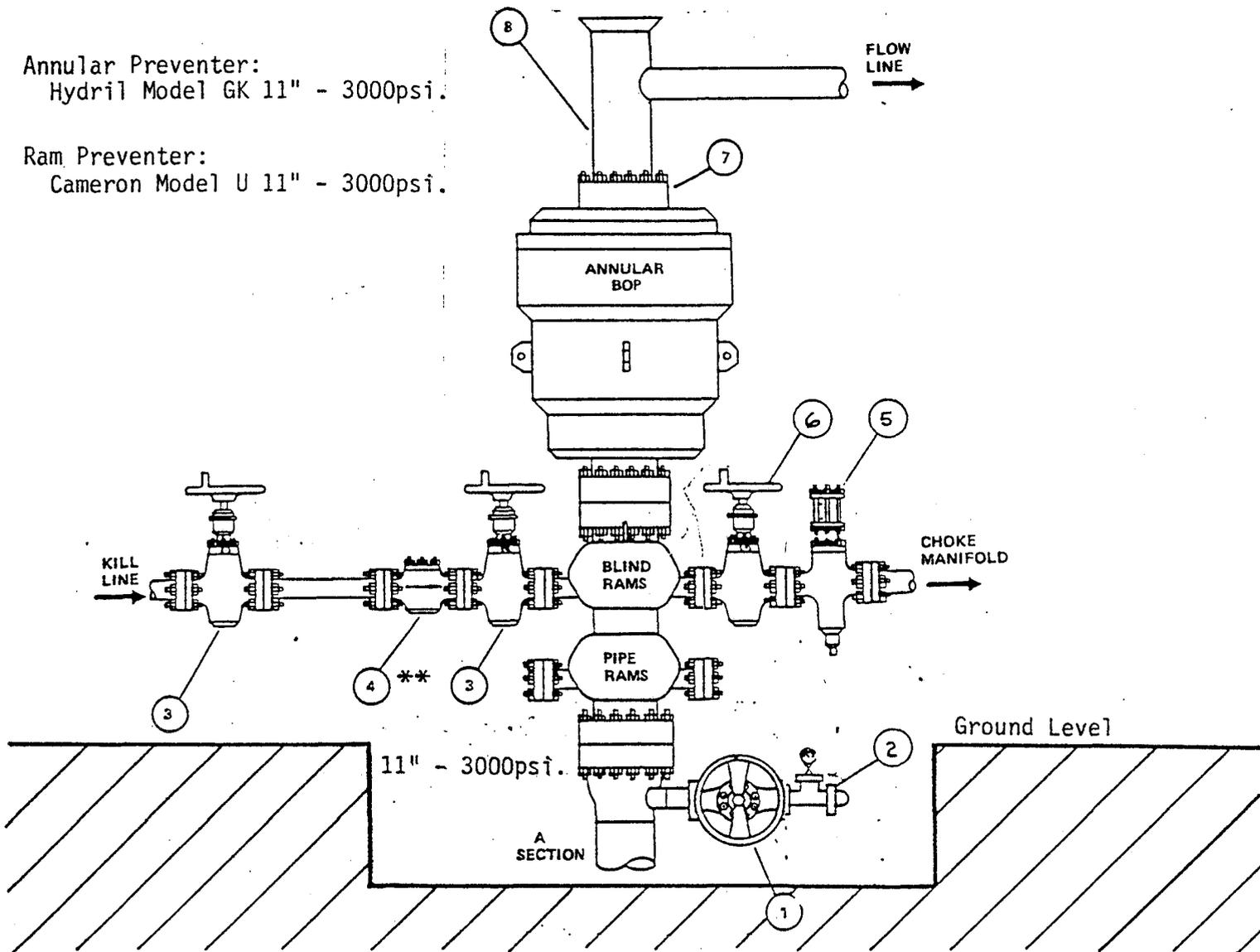
There will be no deviation from the proposed drilling and/or workover program without prior approval of the AO. Safe drilling and operating practices will be observed.

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

## BLOWOUT PREVENTER (TYPICAL)

Annular Preventer:  
Hydril Model GK 11" - 3000psi.

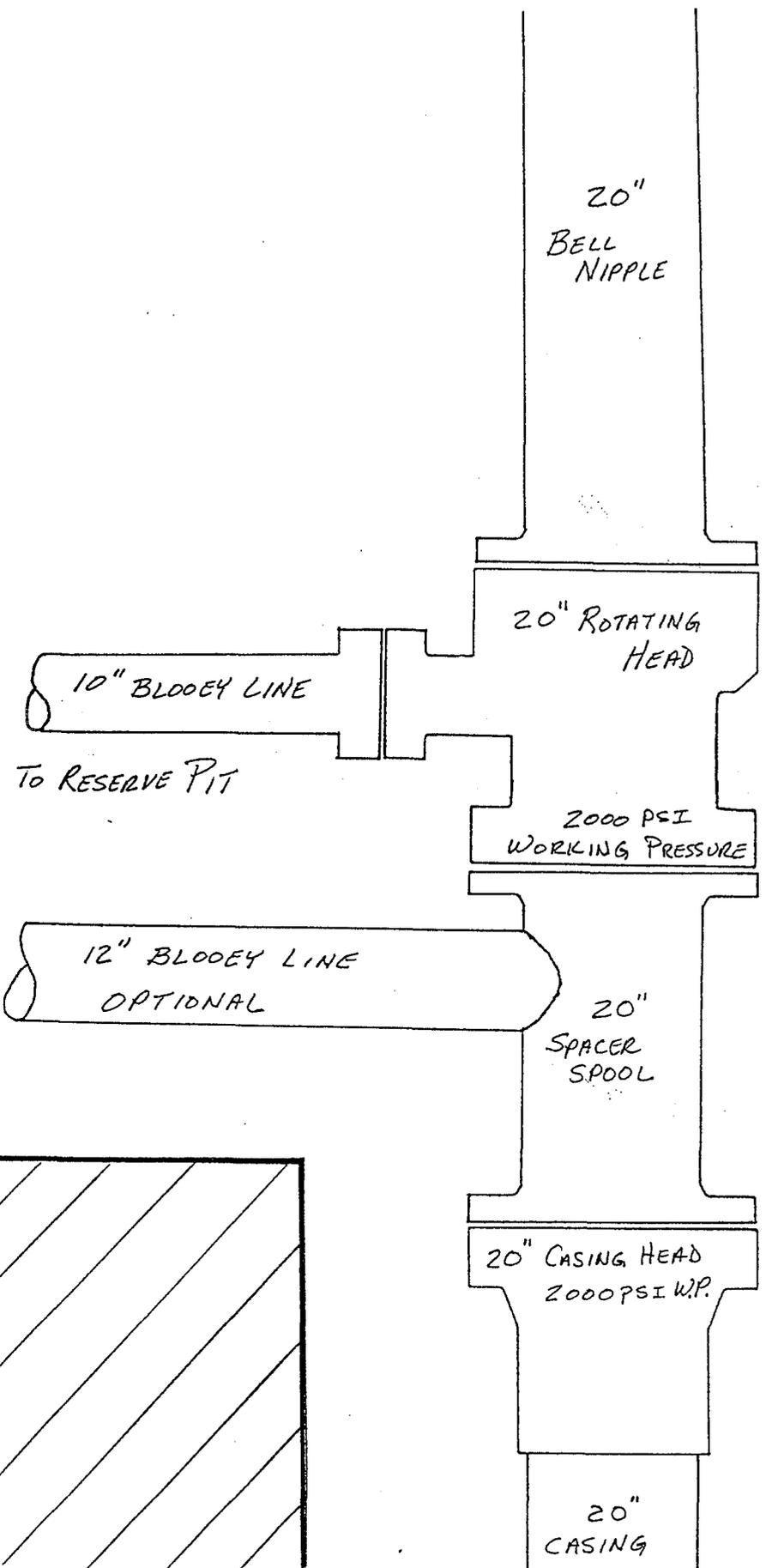
Ram Preventer:  
Cameron Model U 11" - 3000psi.



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.
4. Flanged flapper type check valve — 2" minimum nominal dia. — same working pressure as BOP stack.
5. Flanged hydraulically controlled gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
6. Flanged plug or gate valve — 3" minimum nominal dia. — same working pressure as BOP stack.
7. 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.
8. The I.D. of the bell nipple must not be less than the minimum I.D. of the BOP stack.

INVERTER SYSTEM

EXHIBIT C-1



COLUMBIA GAS DEVELOPMENT

KANE SPRINGS FEDERAL #27-1

DIRECTIONAL PLAN

SEC. 27, T25S, R19E, GRAND Co., UTAH

0  
1000  
2000  
3000  
4000  
5000  
6000  
7000  
8000

3000  
2500  
2000  
1500  
1000  
500  
0  
2000 1500 1000 500 0

PBHL: 1400' FNL  
2800' FEL

14.1°  
12.1°  
10.1°

TOP OF GANCREEK  
1901' FSL & 1824' FEL  
@ 7183' TVD

SL: 1650' FSL  
1700' FEL

HORIZONTAL PLAN

BUILD RATE: 13.5"/100'  
TVD @ END OF BUILD: 7210'  
TVD @ END OF SECTION: 7180'

KOP @ 6786'  
EOB @ 7453'

1000 2000 3000 4000

VERTICAL SECTION  
(N 26.2° W)

DRAWN BY: ROBERT J. PIER, P.E.  
REGISTRATION No. 65041  
STATE OF TEXAS

Robert J. Pier 10/19/90

46 1510

10 X 10 TO THE CENTIMETER 18 X 25 CM.  
KEUFFEL & ESSER CO. MADE IN U.S.A.



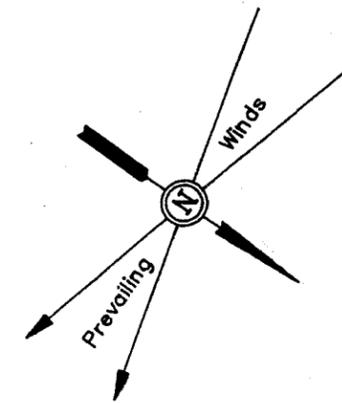
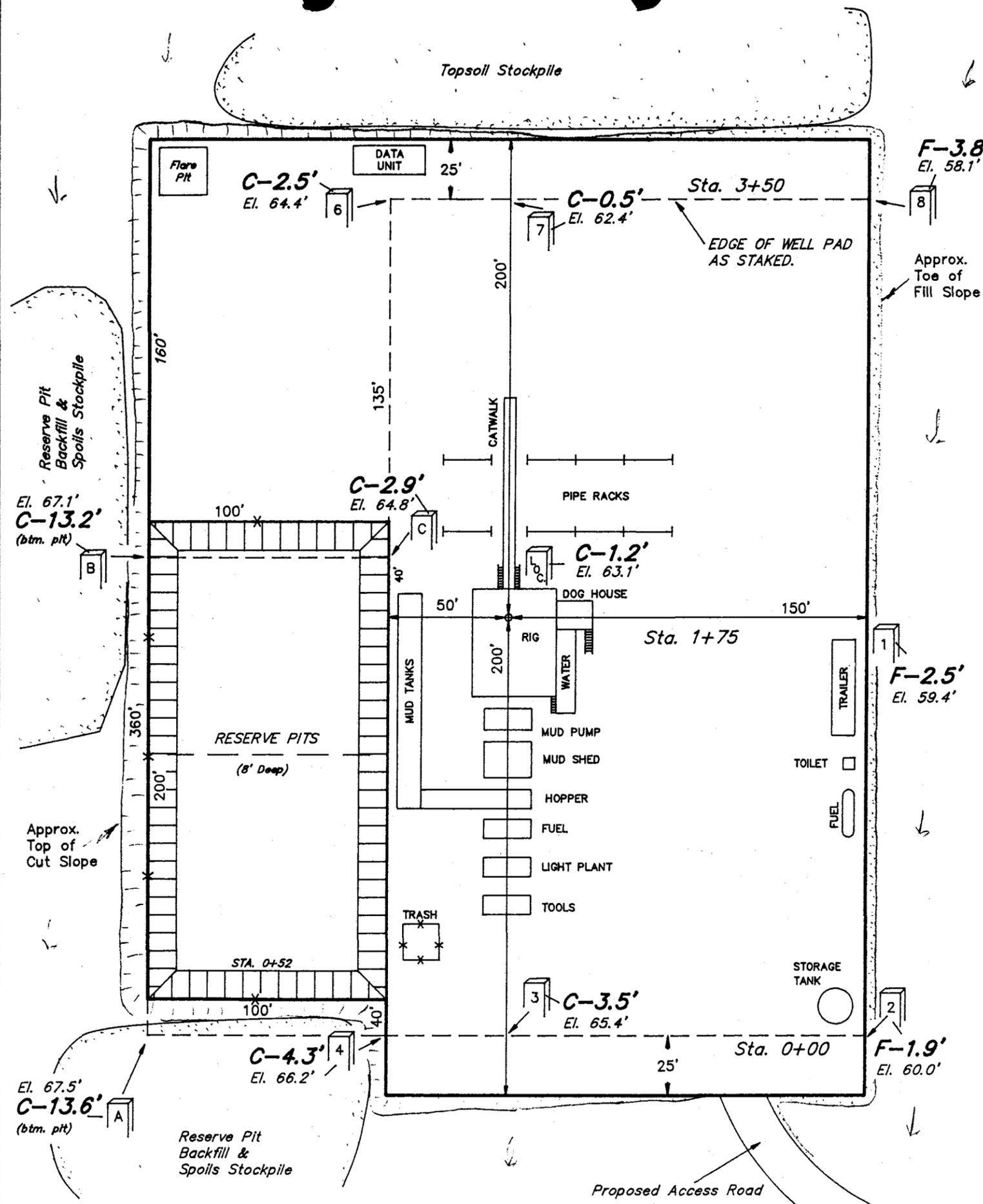


COLUMBIA GAS DEVELOPMENT CORP.

LOCATION LAYOUT FOR  
 KANE SPRING FEDERAL #27  
 SECTION 27, T25S, R19E, S.L.B.&M. OCT 26 1990

**RECEIVED**

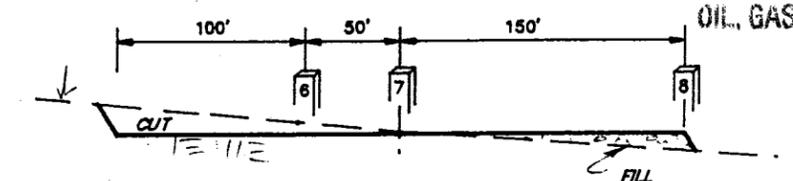
DIVISION OF  
 OIL, GAS & MINING



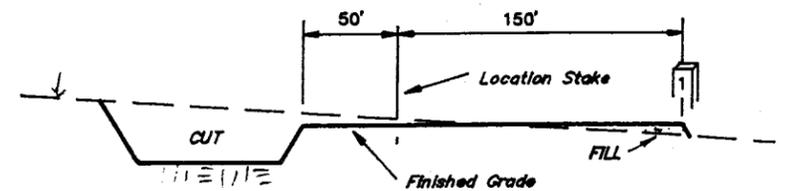
SCALE: 1" = 50'  
 DATE: 8-23-90  
 REVISED: 8-24-90  
 Drawn By: J.R.S.

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

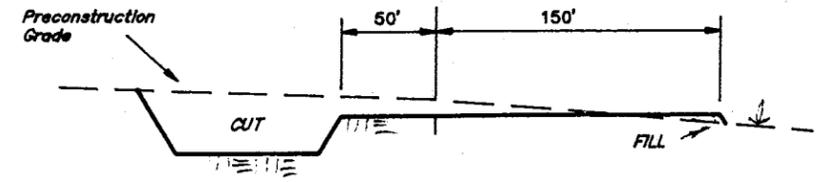
TYP. LOCATION LAYOUT  
 TYP. CROSS SECTIONS



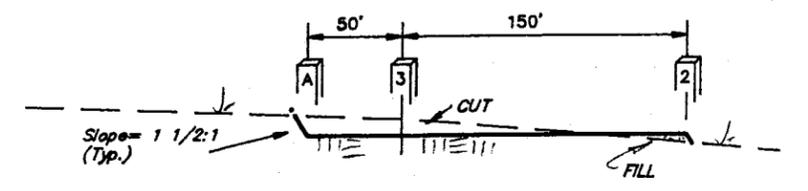
STA. 3+50



STA. 1+75



STA. 0+52



STA. 0+00

APPROXIMATE YARDAGES

CUT			
(6") Topsoil Stripping	=	1,700 Cu. Yds.	
Pit Volume (Below Grade)	=	4,900 Cu. Yds.	
Remaining Location	=	7,610 Cu. Yds.	
<b>TOTAL CUT</b>	<b>=</b>	<b>14,210 CU.YDS.</b>	
FILL	=	2,860 CU.YDS.	
			<b>EXCESS MATERIAL AFTER 5% COMPACTION</b>
			= 11,200 Cu. Yds.
			Topsoil & Pit Backfill (1/2 Pit Vol.)
			= 4,150 Cu. Yds.
			<b>EXCESS UNBALANCE (After Rehabilitation)</b>
			= 7,050 Cu. Yds.

NOTES:

Elev. Ungraded Ground At Loc. Stake = 5763.1'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5761.9'



United States Department of the Interior JUN 30 1989

RECEIVED  
IN REPLY REFER TO:

BUREAU OF LAND MANAGEMENT  
COLORADO STATE OFFICE  
2850 YOUNGFIELD STREET  
LAKEWOOD, COLORADO 80215

J. L. LOFTIS, III

CO-921A(JAS)  
3104  
BLM Bond No.:  
CO-0356

JUN 27 1989

DECISION

Principal: Columbia Gas Development Corp. Surety ID No.: U-391050-16RR  
P.O. Box 1350  
Houston, TX 77251-1350 Amount: \$150,000

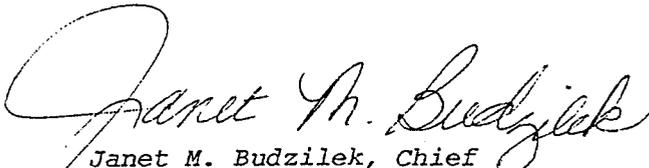
Surety: United Pacific Insurance Co. Type: Nationwide Oil & Gas Bond

Agent: Charles W. Blank Type Rider: Operator  
United Pacific Insurance Co.  
34405 Eight Ave. South C-3000 Date Rider Executed: May 15, 1989  
Federal Way, WA 98005

Bond Rider Accepted

A rider to the above identified bond has been filed in this office. The rider extends coverage to leases where the principal is operator. The rider has been examined and found satisfactory. It is accepted effective

June 2, 1989.

  
Janet M. Budzilek, Chief  
Fluid Minerals Adjudication Section

BLM Bond Number: CO-0356  
Surety Bond Number: U-391050-16RR

RIDER

In consideration for the payment of any additional premium charged for this rider and the acceptance of this rider by the Bureau of Land Management on behalf of the United States of America, the undersigned principal and surety hereby extend the coverage of Bond No. U-391050-16RR, to all of the leases where the principal is the operator, whether or not the principal owns an interest in those leases. The principal hereby agrees to be bound by all the terms and conditions of any lease wherein the principal is the operator until all the terms and conditions of the lease have been satisfied, including the payment of any rentals and royalties due; provided, however, that this rider shall not act to increase the actual cumulative or potential liability of the surety above the face amount of the bond, <sup>One Hundred Fifty</sup> ~~Thousand and 00/100~~ Dollars (\$ 150,000.00 ); providing, further, however, that any limitation of liability on the part of the surety shall not apply to the principal who shall be liable to the same extent as the lessees.

Columbia Gas Development Corporation

By: [Signature]  
Principal and Title

Ann G. Berger  
Witness and Address

Ann G. Berger  
3523 Point Clear Drive, Missouri City, TX

United Pacific Insurance Company

By: [Signature]  
Surety

Marion G. Collett  
Witness and Address

Marion G. Collett  
100 Light Street  
Baltimore, Maryland 21202

Charles W. Blank, Attorney-in-Fact

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That the UNITED PACIFIC INSURANCE COMPANY, a corporation duly organized under the laws of the State of Washington, does hereby make, constitute and appoint Wilbur M. Priestler, S. J. Sandbank, F. S. Carnes, Jr., Stephen R. Mummert, Robert F. White, Charles W. Blank and Mary Ellen Pease, individually, of Baltimore, Maryland

Its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed any and all bonds and undertakings of Suretyship,

and to bind the UNITED PACIFIC INSURANCE COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the UNITED PACIFIC INSURANCE COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

The Power of Attorney is granted under and by authority of Article VII of the By-Laws of UNITED PACIFIC INSURANCE COMPANY which became effective September 7, 1978, which provisions are now in full force and effect, reading as follows:

ARTICLE VII — EXECUTION OF BONDS AND UNDERTAKINGS

1. The Board of Directors, the President, the Chairman of the Board, any Senior Vice President, any Vice President or Assistant Vice President or other officer designated by the Board of Directors shall have power and authority to (a) appoint Attorneys-in-Fact and to authorize them to execute on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and (b) to remove any such Attorney-in-Fact at any time and revoke the power and authority given to him.

2. Attorneys-in-Fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof. The corporate seal is not necessary for the validity of any bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

3. Attorneys-in-Fact shall have power and authority to execute affidavits required to be attached to bonds, recognizances, contracts of indemnity or other conditional or obligatory undertakings and they shall also have power and authority to certify the financial statement of the Company and to copies of the By-Laws of the Company or any article or section thereof.

The power of attorney is signed and sealed by facsimile under and by authority of the following Resolution adopted by the Board of Directors of UNITED PACIFIC INSURANCE COMPANY at a meeting held on the 5th day of June, 1979, at which a quorum was present, and said Resolution has not been amended or repealed:

"Resolved, that the signature of such directors and officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN WITNESS WHEREOF, the UNITED PACIFIC INSURANCE COMPANY has caused these presents to be signed by its Vice President, and its corporate seal to be hereto affixed, this 14th day of May 1987.

UNITED PACIFIC INSURANCE COMPANY

Vice President



STATE OF Pennsylvania ss. COUNTY OF Philadelphia

On this 14th day of May, 1987, personally appeared Raymond MacNeil

to me known to be the Vice-President of the UNITED PACIFIC INSURANCE COMPANY, and acknowledged that he executed and attested the foregoing instrument and affixed the seal of said corporation thereto, and that Article VII, Section 1, 2, and 3 of the By-Laws of said company and the Resolution, set forth therein, are still in full force.

My Commission Expires: September 28, 1987



Notary Public in and for State of Pennsylvania

Residing at

I, Ray L. Lorah, Assistant Secretary of the UNITED PACIFIC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by UNITED PACIFIC INSURANCE COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 15th day of May 1989.

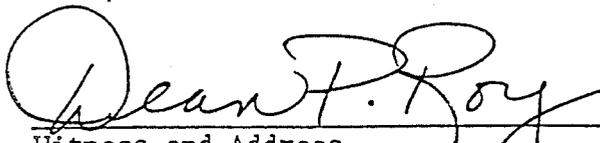


Assistant Secretary

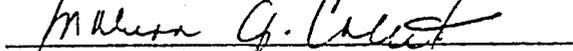
RIDER DESIGNED TO EXTEND STATEWIDE OR NATIONWIDE BONDS TO INCLUDE LEASES WHERE THE PRINCIPAL IS A DESIGNATED OPERATOR

In consideration for the payment of any additional premium charged for this rider and the acceptance of this rider by the Bureau of Land Management on behalf of the United States of America, the undersigned Principal and Surety hereby extend the coverage of Bond No. J-391050-16RR, to all of the leases where the Principal has been designated as the operator by the lessee(s) or holder(s) of the operating rights and the Principal hereby agrees to be bound by all the terms and conditions of any lease wherein the Principal is designated as operator and files such designation with an appropriate officer of the Bureau, whether or not the designation is subsequently revoked, until all the terms and conditions of the lease(s) have been satisfied, including the payment of any rentals and royalties due and the proper plugging and abandonment of any wells drilled on such lease(s); provided, however, that this rider shall not act to increase the actual cumulative or potential liability of the Surety above the face amount of the bond, to wit: One Hundred Fifty Thousand and 00/100 Dollars (\$ 150,000.00 ); provided, further, however, that any limitation of liability on the part of the Surety shall not apply to the Principal who shall be liable to the same extent as the party or parties designating the Principal as Operator.

Executed this 14th day of April, 1987.

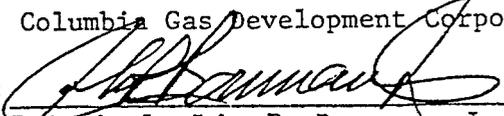


Witness and Address  
Dean P. Roy  
5847 San Felipe, Houston, TX 77057



Witness and Address  
Marion G. Collett  
100 Light Street, Balto., Md. 21202

Columbia Gas Development Corporation

By:   
Principal; John P. Bornman, Jr., President  
United Pacific Insurance Company

By:   
Surety  
Stephen R. Mummert, Attorney-in-Fact

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That the UNITED PACIFIC INSURANCE COMPANY, a corporation duly organized under the laws of the State of Washington, does hereby make, constitute and appoint Wilbur M. Priester, S. J. Sandbank, F. S. Carnes, Jr., John R. Vasco, Gordon H. Prager, Stephen R. Mummert, Anna R. Daily and Brian E. Wilcox, individually, of Baltimore, Maryland

its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed any and all bonds and undertakings of Suretyship,

and to bind the UNITED PACIFIC INSURANCE COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the UNITED PACIFIC INSURANCE COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

This Power of Attorney is granted under and by authority of Article VII of the By-Laws of UNITED PACIFIC INSURANCE COMPANY which became effective September 7, 1978, which provisions are now in full force and effect, reading as follows:

ARTICLE VII - EXECUTION OF BONDS AND UNDERTAKINGS

1. The Board of Directors, the President, the Chairman of the Board, any Senior Vice President, any Vice President or Assistant Vice President or other officer designated by the Board of Directors shall have power and authority to (a) appoint Attorneys-in-Fact and to authorize them to execute on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and (b) to remove any such Attorney-in-Fact at any time and revoke the power and authority given to him.

2. Attorneys-in-Fact shall have power and authority, subject to the terms and limitations of the power of attorney issued to them, to execute and deliver on behalf of the Company, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof. The corporate seal is not necessary for the validity of any bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof.

3. Attorneys-in-Fact shall have power and authority to execute affidavits required to be attached to bonds, recognizances, contracts of indemnity or other conditional or obligatory undertakings and they shall also have power and authority to certify the financial statement of the Company and to copies of the By-Laws of the Company or any article or section thereof.

This power of attorney is signed and sealed by facsimile under and by authority of the following Resolution adopted by the Board of Directors of UNITED PACIFIC INSURANCE COMPANY at a meeting held on the 5th day of June, 1979, at which a quorum was present, and said Resolution has not been amended or repealed:

"Resolved, that the signatures of such directors and officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN WITNESS WHEREOF, the UNITED PACIFIC INSURANCE COMPANY has caused these presents to be signed by its Vice President, and its corporate seal to be hereto affixed, this 26th day of April 1984.



UNITED PACIFIC INSURANCE COMPANY
Vice President (Signature)

STATE OF Pennsylvania } ss.
COUNTY OF Philadelphia
On this 26th day of April, 1984, personally appeared Raymond MacNeil

to me known to be the Vice-President of the UNITED PACIFIC INSURANCE COMPANY, and acknowledged that he executed and attested the foregoing instrument and affixed the seal of said corporation thereto, and that Article VII, Section 1, 2, and 3 of the By-Laws of said Company, and the Resolution, set forth therein, are still in full force.

My Commission Expires: September 28, 1987



(Signature)
Notary Public in and for State of Pennsylvania
Residing at Philadelphia

I, P. D. Crossetta, Assistant Secretary of the UNITED PACIFIC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by said UNITED PACIFIC INSURANCE COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 14th day of April 1987



(Signature)
Assistant Secretary



*John R. Vasco*

# United States Department of the Interior

IN REPLY REFER TO

BUREAU OF LAND MANAGEMENT  
COLORADO STATE OFFICE  
2020 ARAPAHOE STREET  
DENVER, COLORADO 80205

RECEIVED  
JUL 24 1985

CO-943A(MN)  
3104  
Nationwide  
Oil and Gas  
Bond

J. D. R.

## DECISION

JUL 22 1985

Principal(s):	Columbia Gas Development Corporation P.O. Box 1350 Houston, Texas 77251-1350	Bond Number: U-391050-16RR
		Amount of Bond: \$150,000
		Date Bond and Rider Executed: May 3, 1985
Surety:	United Pacific Insurance Company	Date Bond and Rider Filed: May 20, 1985
Attorney -in-Fact:	John R. Vasco United Pacific Insurance Company 3340 Eighth Avenue South, C-3000 Federal Way, Washington 98005	

### Nationwide Oil and Gas Bond and Rider Accepted

The above identified bond with rider attached have been examined and found satisfactory. They are accepted effective May 20, 1985, the date they were filed.

The bond constitutes coverage for all interests of the principal(s) in Federal oil and gas leases, except leases in the National Petroleum Reserve in Alaska. Federal leases do not include Indian leases. The rider assumes all liability under the principal's prior Nationwide bond.

Coverage under this bond, however, does not extend to additional principals, such as assignees of all or part of the principal's interests in any lease, nor will the coverage extend to any lands where the principal is the unit operator but does not hold the record title or the operating rights in such lands, either alone or together with other parties, all of whose interests are covered by appropriate bonds.

The bond will be maintained by this office. Termination of liability under the bond will be permitted only after this office is satisfied that either there is no outstanding obligation covered by the bond or satisfactory replacement bonding coverage has been furnished.

*Evelyn W. Axelson*  
Evelyn W. Axelson  
Chief, Mineral Leasing Section

cc:  
All BLM State Offices  
MMS-AFS, Denver

**COLUMBIA GAS**

Development



May 14, 1985

**RECEIVED**  
MAY 24 1985

GENERAL ACCOUNTING

U.S. Department of the Interior  
Bureau of Land Management  
2020 Arapahoe Street  
Denver, CO 80205

RE: Columbia Gas Development Corporation  
Nationwide Oil and Gas Bond

85 MAY 20 AM 1:10

Gentlemen:

Enclosed is the following executed bond with attached rider:

United Pacific Insurance Company  
Bond No. U-391050-16RR  
Amount: \$150.00  
Effective Date: 5/03/85

Please be advised that this bond serves to replace the following bond as of May 3, 1985.

Seaboard Surety Company  
Bond No. 639585  
Amount: \$150.00  
Cancellation Date: 5/03/85

Please acknowledge your acceptance by signing where indicated on the attached copy of this letter and returning it in the enclosed self-addressed stamped envelope. Retain the original for your files.

Should you have any questions, please contact me at (713) 940-3412.

Very truly yours,

*John A. Wyatt*  
John A. Wyatt  
Supervisor, General Accounting

JAW/pw

Enclosures

*J.W. Legal/Paralegal Spec.*  
Received BY *CO-9457*  
5/21/85  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

STATE, NATIONWIDE, OR NATIONAL PETROLEUM RESERVE  
IN ALASKA OIL AND GAS BOND

Act of February 25, 1920 (30 U.S.C. Sec. 181)

Act of August 7, 1947 (30 U.S.C. Sec. 351)

Department of the Interior Appropriations Act, Fiscal Year 1981 (P.L. 96-514)

Other Oil and Gas Leasing Authorities as Applicable

35144-13

Bond No. U-391050-16RR

KNOW ALL MEN BY THESE PRESENTS, That we Columbia Gas Development Corporation

Houston, Texas

Principal, and United Pacific Insurance Company

State of Washington

Surety, are held and firmly bound unto the United States of America in the sum of One Hundred and Fifty thousand and 00/100----- dollars (\$ 150,000.00-----), in lawful money of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any leasee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits on any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves, each of our heirs, executors, administrators, and successors, jointly and severally.

The coverage of this bond shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, issued or acquired under the Acts cited in Schedule A.

The coverage of this bond extends only to the principal's holdings of federal oil and gas leases issued or acquired under the Acts cited and in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.

The coverage of this bond extends only to the principal's holdings of federal oil and gas leases within the National Petroleum Reserve in Alaska.

SCHEDULE A

Oil and Gas Leasing Act of February 25, 1920 (30 U.S.C. Sec. 181), Acquired Lands Leasing Act of August 7, 1947 (30 U.S.C. Sec. 351), and other oil and gas leasing authorities as applicable.

NAMES OF STATES

conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Acts cited in this bond: (1) as leasee; (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees; or (3) as designated operator or agent under such leases pending approval of an operating agreement or operating agreement; and

tract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and

oil and gas lease hereafter issued to, or acquired by the principal in the States now named in Schedule A, or later named in a rider, the coverage to be confined to the principal's holdings under the Acts cited and to become effective immediately upon such issuance or upon departmental approval of a transfer in favor of the principal.

Any operating agreement hereafter entered into or approved by the principal affecting oil and gas leases in the States now named in Schedule A, or later named in a rider. The coverage shall become effective immediately upon departmental approval of the agreement or of a transfer in favor of the principal.

Any designation subsequent hereto of the principal as operator or agent of a lessee under a lease issued pursuant to the Acts cited and covering lands in a State named in Schedule A, either presently or by rider. This coverage shall become effective immediately upon the filing of such designation under a lease.

Any extension of a lease covered by this bond, such as to continue without any interruption due to the expiration of the term set forth in the lease.

Provided, that the surety may elect to have the additional coverage authorized under this paragraph become inapplicable to all interests of the principal acquired more than 30 days after the receipt of notice of such election from the Bureau of Land Management.

The surety hereby waives any right to notice of, and agrees that this bond shall remain in full force and effect notwithstanding:

A transfer or transfers, either in whole or in part, of all of the leases, or of the operating agreements, and the principal agrees to remain bound under this bond as to the interests either in the leases or in the operating agreements, both, retained by the principal when the approval of a transfer or transfers become effective.

Any modification of a lease or operating agreement, or obligations thereunder, whether made or effected by amendment of such lease or operating agreement to unit, cooperative, communitization or storage, agreements, or amendment contracts, suspensions of operations or production waivers, suspensions or changes in rental, minimum royalty and royalties, compensatory royalty payments, or otherwise; and

Done on this 3rd day of May, 1985, in the presence of:

NAMES AND ADDRESSES OF WITNESSES

Ernie B. Berger

P.O. Box 1350, Houston Texas 77001

100 East Pratt St., Baltimore, Maryland 21202

WHEREAS the principal and surety hereby agree that notwithstanding the termination of any lease or leases, operating agreements or designations as operator or agent, covered by this bond, whether the termination is by operation of law or otherwise, the bond shall remain in full force and effect as to all remaining leases, operating agreements, or designations covered by the bond; and

WHEREAS the principal, as to any lease or part of a lease for lands as to which he has been designated as operator or agent, or approved as operator, in consideration of being permitted to furnish this bond in lieu of the lessees, agrees and by these presents does hereby bind himself to fulfill on behalf of each lessee all obligations of each such lease for the entire leasehold in the same manner and to the same extent as though he were the lessee; and

WHEREAS the principal and surety agree that the neglect or forbearance of said lessor in enforcing, as against the lessees of such lessor, the payment of rentals or royalties or the performance of any other covenant, condition or agreement of the leases, shall not, in any way, release the principal and surety, or either of them, from any liability under this bond; and

WHEREAS the principal and surety agree that in the event of any default under the leases, the lessor may commence and prosecute any claim, suit, action, or other proceeding against the principal and surety, or either of them, without the necessity of joining the lessees.

NOW, THEREFORE, IF said principle shall in all respects faithfully comply with all of the provisions of the leases referred to hereinbefore, then the above obligations are to be void; otherwise to remain in full force and effect.

Columbia Gas Development Corporation

By: Ernie M. Berger (L.S.)  
(Principal)

P.O. Box 1350, Houston, Texas 77001  
(Business Address)

United Pacific Insurance Company  
John R. Vasco (L.S.)  
(Surety)

John R. Vasco Attorney-in-Fact  
100 East Pratt St., Baltimore, Maryland 21202  
(Business Address)

RIDER

Bond No. U-391050-16RR

It is hereby agreed by and between the undersigned principal(s) and surety in consideration for the additional premium or consideration paid for this rider, if any, and the consent by the United States to terminate the liability on Bond No. 839585 carrying the same principal(s) and Seaboard Surety Company as surety, the undersigned principal(s) and surety hereby assume any and all liabilities that may be outstanding on Bond No. 839585 including, but not limited to, the obligation properly to plug and abandon all wells existing on leases to which Bond No. 839585 applies and any unpaid rentals or royalties heretofore accruing: provided, however, that this rider shall not act to increase the potential or cumulative liability of the surety above the face amount of the bond to which this rider attaches.

Executed this 3rd day of May, 19 85.

Witnesses:

Ann G Berger

Columbia Gas Development Corporation

By: [Signature]  
(Principal)

(Principal)

(Principal)

[Signature]

[Signature]  
(Surety)

John R. Vasco, Attorney-in-Fact  
United Pacific Insurance Company

# UNITED PACIFIC INSURANCE COMPANY

HOME OFFICE, FEDERAL WAY, WASHINGTON

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, That the UNITED PACIFIC INSURANCE COMPANY, a corporation duly organized under the laws of the State of Washington, does hereby make, constitute and appoint Wilbur M. Priestler, S. J. Sandbank, F. S. Carnes, Jr., John R. Vasco, Gordon H. Prager, Stephen R. Mummert, Anna R. Daily and Brian E. Wilcox, individually, of Baltimore, Maryland

its true and lawful Attorney-in-Fact, to make, execute, seal and deliver for and on its behalf, and as its act and deed any and all bonds and undertakings of Suretyship,

and to bind the UNITED PACIFIC INSURANCE COMPANY thereby as fully and to the same extent as if such bonds and undertakings and other writings obligatory in the nature thereof were signed by an Executive Officer of the UNITED PACIFIC INSURANCE COMPANY and sealed and attested by one other of such officers, and hereby ratifies and confirms all that its said Attorney(s)-in-Fact may do in pursuance hereof.

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This power of attorney is signed and sealed by facsimile under and by authority of the following Resolution adopted by the Board of Directors of UNITED PACIFIC INSURANCE COMPANY at a meeting held on the 5th day of June, 1979, at which a quorum was present, and said Resolution has not been amended or repealed:

"Resolved, that the signatures of such directors and officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN WITNESS WHEREOF, the UNITED PACIFIC INSURANCE COMPANY has caused these presents to be signed by its Vice President, and its corporate seal to be hereto affixed, this 26th day of April, 1984.



UNITED PACIFIC INSURANCE COMPANY

Vice President

STATE OF Pennsylvania }  
COUNTY OF Philadelphia } ss.

On this 26th day of April, 1984, personally appeared Raymond MacNeil

to me known to be the Vice-President of the UNITED PACIFIC INSURANCE COMPANY, and acknowledged that he executed and attested the foregoing instrument and affixed the seal of said corporation thereto, and that Article VII, Section 1, 2, and 3 of the By-Laws of said Company, and the Resolution, set forth therein, are still in full force.

My Commission Expires:

September 28, 1987



Notary Public in and for State of Pennsylvania

Residing at Philadelphia

I, P. D. Crossetta, Assistant Secretary of the UNITED PACIFIC INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney executed by said UNITED PACIFIC INSURANCE COMPANY, which is still in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company this 3rd day of May, 1985.



Assistant Secretary

# CONFIDENTIAL

OPERATOR Columbia Gas Develop Corp N-5035 DATE 10-30-90  
 WELL NAME Kane Springs Tederal 07-1  
 SEC NWSE 07 T 05S R 19E COUNTY Grand

43-019-31310  
API NUMBER

Tederal (1)  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Water Permit

1700' FEL x 1650' ESL Surface location  
1824' FEL x 1901' ESL intercept prod. from  
2800' FEL x 1400' FNL BHL, terminates  
"of lateral"

CONFIDENTIAL  
 PERIOD  
 EXPIRED  
 ON 7-8-92

APPROVAL LETTER:

SPACING:

R615-2-3

N/A  
UNIT

R515-3-2

N/A  
CAUSE NO. & DATE

R615-3-3

Surface only  
(Exception)

STIPULATIONS:

1. Needs water permit
2. Potash R615-3-28 ✓
3. Upon completion of the well for production, the operator shall evaluate the well relative to the extent of penetration into the productive formation and present information to the Division as to the appropriateness of establishing a drilling unit for the pool.

**COLUMBIA GAS**  
Development



October 31, 1990

**VIA AIRBORNE EXPRESS**

STATE OF UTAH NATURAL RESOURCES  
Oil & Gas Mining  
355 W. North Temple, 355 Triad Center  
Ste. #350  
Salt Lake City, Utah 84180-1203

ATTN: TAMMY SEARIN

RE: COLUMBIA GAS DEVELOPMENT CORP.  
KANE SPRING FEDERAL #27-1  
SEC. 27, T25S, R19E  
GRAND COUNTY, UTAH

Dear Ms. Searin:

Pursuant to the Oil & Gas Conservation General Rule R615-3-3, Columbia Gas Development Corporation respectfully requests an exception to the location and siting of the above referenced location. Due to the topography of the area, compliance with the four hundred and sixty foot (460') spacing from the quarter-quarter lines is not feasible.

Columbia Gas Development Corporation's lease includes the four hundred and sixty foot distance from the quarter-quarter lines. Attached please find a copy of the lease boundaries for your records.

Should you have any questions, or require any additional information, do not hesitate to contact me at 713/871-3400.

Sincerely,

**COLUMBIA GAS DEVELOPMENT CORP.**

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

Aline A. Reese  
Regulatory

AAR  
Encl.





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
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

November 12, 1990

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

Gentlemen:

Re: Kane Springs Fed. 27-1 - NW SE Sec. 27, T. 25S, R. 19E - Grand County, Utah  
1650' FSL, 1700' FEL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.
2. Special attention is directed to compliance with Rule R615-3-28, which prescribes drilling procedures for designated potash areas.
3. Upon completion of the well for production, the operator shall evaluate the well relative to the extent of penetration into the productive formation and present information to the Division as to the appropriateness of establishing a drilling unit for the pool.

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

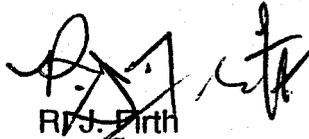
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.

Page 2  
Columbia Gas Development Corporation  
Kane Springs Fed. 27-1  
November 12, 1990

4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31310.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
J. L. Thompson  
we14/1-4

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 Horizontal SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Columbia Gas Development Corp. 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 1700' FEL & 1650' FSL of Sec. 27, T25S, R19E  
 At proposed prod. zone Cane Creek Intercept: 1901' FSL & 1824'  
 PBHL: 1400 FNL & 2800 FEL 1824' FEL @ 7183TVD

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approx. 16 1/2 miles NW of Moab 42-019-21210

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1650'

16. NO. OF ACRES IN LEASE 840 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL 640 acres

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

19. PROPOSED DEPTH 7200 TVD/9700 MD

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 5763'

22. APPROX. DATE WORK WILL START\* 12/15/90

5. LEASE DESIGNATION AND SERIAL NO.  
 UTU-65971

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

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME  
 Kane Spring Federal

9. WELL NO.  
 #27-1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat/mation objective Cane Creek for-

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
 Sec. 27, T25S, R19E

12. COUNTY OR PARISH Grand

13. STATE Utah

PROPOSED CASING AND CEMENTING PROGRAM

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

**CONFIDENTIAL RECEIVED**

DEC 07 1990

DIVISION OF  
OIL, GAS & MINING

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

24. SIGNED A. A. Reese TITLE Regulatory Clerk DATE 10/23/90

(This space for Federal or State office use)

PERMIT NO. /S/ WILLIAM C. STRINGER APPROVAL DATE DEC 5 1990  
 ASSISTANT DISTRICT MANAGER  
 for Minerals

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A CONDITIONS OF APPROVAL ATTACHED  
 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.

Dogm.

T25S, R19E, S.L.B.&M.

**COLUMBIA GAS DEVELOPMENT CORP.**

Well location KANE SPRING FED. #27-1,  
located as shown in the NW 1/4 SE 1/4  
of Section 27, T25S, R19E, S.L.B.&M.  
Grand County, Utah.

BASIS OF ELEVATION

TRIANGULATION STATION THE KNOLL VABM 6316, 1937  
LOCATED IN THE SE 1/4 OF SECTION 11, T26S, R19E,  
S.L.B.&M. TAKEN FROM THE KNOLL QUADRANGLE, UTAH,  
15 MINUTE SERIES QUAD. (TOPOGRAPHICAL MAP)  
PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR. GEOLOGICAL SURVEY.  
SAID ELEVATION IS MARKED AS BEING 6316 FEET.



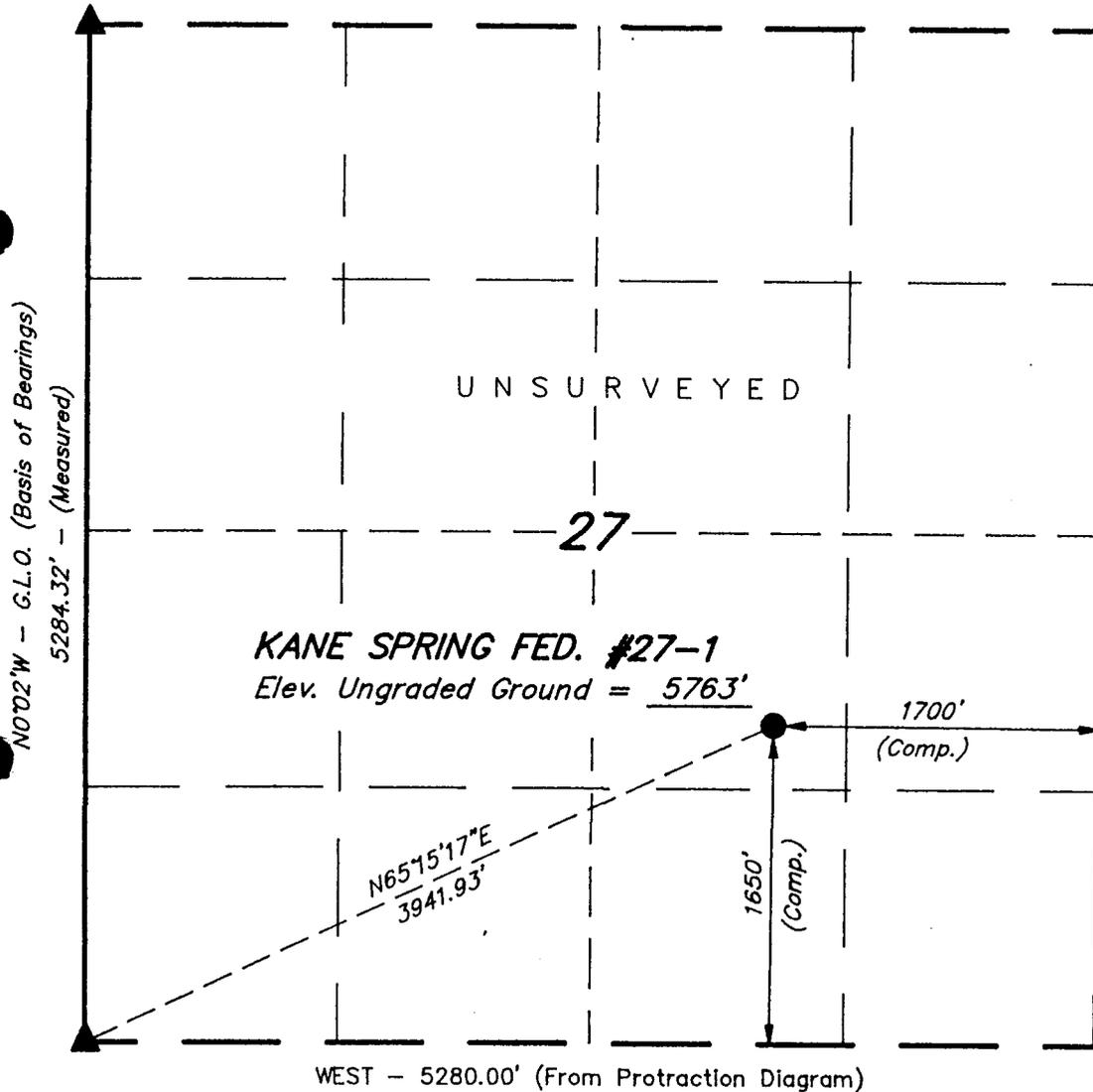
CERTIFICATE

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.

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

SCALE 1" = 1000'	DATE 8-23-90
PARTY G.S. J.F. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER WARM, CLEAR	FILE COLUMBIA GAS



▲ = SECTION CORNERS LOCATED. (Brass Caps)

Columbia Gas Development Corp.  
Well No. Federal 27-1  
NWSE Sec. 27, T. 25 S., R. 19 E.  
Grand County, Utah  
Lease U-65971

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 C00356 (Principal - Columbia Gas Development Corp.) via surety consent as provided for in 43 CFR 3104.3.

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

A. DRILLING PROGRAM

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order 1, Onshore Oil and Gas Order No. 2 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 the field representative to insure compliance.

1. If unconsolidated rock is encountered, conductor shall be set ten (10) feet onto underlying bedrock with cement circulated to surface.
2. Surface casing will be set 50 feet into the Chinle Formation regardless of the depth the Chinle is encountered.
3. Surface casing shall have a centralizer on each of the bottom three joints.
4. A float valve above the bit shall be in place and operational during air/gas drilling.
5. A 2000 lb. 20 inch annular preventer shall be installed, tested and in working condition prior to drilling through surface casing shoe according to Onshore Order #2 specifications.

6. Usable quality water and prospectively valuable minerals shall be isolated and/or protected. Geologic analysis indicates that usable quality water may be in the Cutler Formation at a projected vertical borehole depth of 1403 feet. Geologic analysis also indicates that potash (a prospectively valuable mineral) may be encountered in the Paradox Formation at a projected borehole depth of 4190 feet. If encountered while drilling, these zones shall be isolated and/or protected by bringing the cement level behind the intermediate/production casing to at least 100 feet above the formation occurrence.
7. No hexavalent chromate additives will be used in the mud system in order to protect usable quality water aquifers.
8. Daily drilling and completion progress reports shall be submitted to the District Office on a weekly basis.

STIPULATIONS AS  
CONDITIONS OF APPROVAL  
ON WELL # 27-1

1. If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource area archaeologist notified at 801-259-8193.
2. If the well is productive, the type and placement of the facilities will be discussed with Resource area specialists prior to their set up. Here, the concern is to mitigate potential visual intrusion.
3. The stockpiled topsoil will be evenly distributed over the recontoured areas. If the well is productive, all the topsoil should be used when recontouring unused portion of the pad.
4. The surface of the rehabilitated location will be left in a roughened condition. The seed may be drilled, or broadcast and dragged.

\*\*\* These stipulations are derived through the NEPA process.

C. Anticipated Starting Dates and Notifications of Operations:

Required verbal notifications are summarized in Table 1, attached. 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. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

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.

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. 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.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6.

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".

TWELVE-POINT SURFACE USE PLAN OF OPERATIONS

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7-4 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Assistant District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Assistant District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6.

"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.

This permit will be valid for a period of one (1) year from, the date of approval. After permit termination, a new application will be filed for approval for any future operations.

RECEIVED  
TABLE 1  
DEC 07 1990

NOTIFICATIONS

Notify Jeff Robbins 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 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 hours 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

**COLUMBIA GAS**  
Development



December 14, 1990

**RECEIVED**  
DEC 17 1990

VIA AIRBORNE EXPRESS

DIVISION OF  
OIL, GAS & MINING

STATE OF UTAH NATURAL RESOURCES  
OIL, GAS & MINING  
355 W. North Temple, 3 Triad Center  
Ste.# 350  
Salt Lake City, Utah 84180-1203

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRING FEDERAL #27-1**  
**SEC.27, T25S, R19E**  
**GRAND COUNTY, UTAH**  
**API NO. 43-019-31310**

Dear Mr. Firth:

Please find enclosed an original, and two copies, of Columbia's Sundry Notice regarding certain revisions to the approved Permit to Drill for the above referenced locations.

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

AAR  
Encl.

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-65971
2. NAME OF OPERATOR Columbia Gas Development Corporation 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME NA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27, T25S, R19E		8. FARM OR LEASE NAME Kane Spring Federal
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1
15. ELEVATIONS (Show whether OF, RT, CR, etc.) GR 5763'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.27, T25S, R19E
		12. COUNTY OR PARISH 13. STATE Grand 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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) REVISIONS TO APD <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

**CONFIDENTIAL**

PLEASE NOTE THE FOLLOWING CHANGES TO THE APPROVED APPLICATION FOR PERMIT TO DRILL:

- 1) Change Blooey line size from 10" to 8-5/8"
- 2) Omit logging from 570'-4600'
- 3) Change surface hole size from 24" to 26"
- 4) Change proposed mud weight in 7453'-9453' interval from 14.0 ppg to 9.5-14.0 ppg range, to allow hole to dictate mud weight.

Verbal approval was received from the BLM , Dale Manchester on 12/11/90

**RECEIVED**  
DEC 17 1990

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 12/14/90

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

**COLUMBIA GAS**

**Development**



January 15, 1991

**RECEIVED**  
JAN 16 1991

DIVISION OF  
OIL, GAS & MINING

**VIA AIRBORNE EXPRESS**

STATE OF UTAH NATURAL RESOURCES  
OIL, GAS & MINING  
355 W. North Temple, 3 Triad Centre  
Ste. #350  
Salt Lake City, Utah 84180-1203

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

**CONFIDENTIAL**

Dear Mr. Firth:

Pursuant to the Conditions of Approval please find enclosed a daily drilling report to date regarding the operations at the above referenced location as well as the Entity Action Form.

Columbia Gas Development Corporation respectfully requests that the information submitted be kept confidential.

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

AAR  
Encl.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU 65971
2. NAME OF OPERATOR COLUMBIA GAS DEVELOPMENT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P. O. BOX 1350 HOU., TX. 77251-1350		7. UNIT AGREEMENT NAME KANE SPRING FED. #27-1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1700' FEL & 1650' FSL of Sec.27, T25S, R19E		8. FARM OR LEASE NAME KANE SPRING FED. #27-1
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Gr. 5763'		10. FIELD AND POOL, OR WILDCAT WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC.27, T25S, R19E
		12. COUNTY OR PARISH Grand
		13. STATE UT.

CONFIDENTIAL

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Other) Drilling Report

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

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

SEE ATTACHED FOR DAILY DRILLING REPORT AND SINGLE SHOT SURVEY DATA

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

SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 1/14/90

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

12/28/90 SPUD WELL, DRL TO 99', MW 9.1

12/29/90 DRL TO 255', MW 8.8

12/30/90 DRL TO 495', MW 8.8

12/31/90 DRL TO 620', TFPBHA, MW 8.8

1/1/91 FOH, P/U HO & OPEN HOLE F:44'-159', MW 8.6

1/2/91 OPEN HOLE TO 510', MW 8.7

1/3/91 POH, REAM F:99'-519', MW 8.9

1/4/91 OPEN HOLE TO 618', CC, RUN 16 JTS 20" CSG TO 618', CMT W/615 SX STD CMT, WOC

1/5/91 CUT CSG, WELD ON 20" HEAD & BASE PLATE, NU & TEST TO 1070# FOR 15 MIN.

1/6/91 FIN NU, INSTALL BLOOEY LINE, TIH TO 616', BLOW WELL DRY OF WATER, DRL W/AIR.

1/7/91 DRL, TFPBIT, DRL TO 1224', AIR:3600 SCF W/450 PSI.

1/8/91 DRL TO 1785, BLOW HOLE & CIRC TO CLEAN FOR TRIP. AIR: 3600 SCF W/450 PSI

1/9/91 DRL TO 2210', HOLE WET @ 2137', CLEAN HOLE W/AIR MIST: 3600 CFM W/200 PSI

1/10/91 DRL TO 2425', POH

1/11/91 DRL TO 2645', WASH TO BTM 10' FILL, AIR: 3600 CFM W/500 PSI

1/12/91 DRL TO 2765', 3600 CFM W/500 PSI

1/13/91 DRL TO 2945', BLOW HOLE, P/U 5" D.C'S

1/14/91 DRL TO 3215', 3600 SCFM W/500 PSI

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UTAH

SINGLE SHOT SURVEY DATA

DEPTH	DEGREE
150'	1
200'	3/4
850	1
1036	1
1692	1
2177	1
2669	3/4
3039	1



January 24, 1991

STATE OF UTAH NATURAL RESOURCES  
OIL, GAS & MINING  
355 W. North Temple, 3 Triad Center  
Ste. #350  
Salt Lake City, Utah 84180-1203

RECEIVED  
JAN 28 1991

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRING FEDERAL #27-1**  
**SEC.27, T25S, R19E**  
**GRAND COUNTY, N.D.**  
**API NO. 43-019-31310**

Dear Mr. Firth:

Please find enclosed the weekly activity report regarding the above referenced location.

Columbia Gas Development Corporation respectfully requests that the information submitted by kept confidential.

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

Sincerely,

**COLUMBIA GAS DEVELOPMENT CORPORATION**

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

1/15/91 DRL TO 3580', W/AIR MIST

1/16/91 DRL TO 3790 W/AIR MIST

1/17/91 DRL TO 3955 W/AIR MIST, TFN/BHA, REPAIR BLOOEY LINE

1/18/91 DRL TO 4110' W/AIR MIST

1/19/91 DRL TO 4575' W/AIR MIST

1/20/91 DRL TO 4600', ST TO DC, POH, RAN 13 3/8"  
CSG TO 4585', WASH TO BTM.

1/21/91 CMT CSG W/900 SX LIGHT & 415 SX CL-B, POH, CUT  
CSG., TEST SPOOL TO 1200#, NU BOPE.

1/22/91 CONT. NU BOPE

1/23/91 FIN NU BOPE, ATTEMPTING TO TEST BOPE.

KANE SPRING FEDERAL #27-1  
SEC.27, T25S, R19E  
GRAND COUNTY, UTAH

SINGLE SHOT SURVEY DATA

DEPTH	DEGREE
3535'	1 1/4
3791'	1 1/4
4300'	1
4568'	1

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR COLUMBIA GAS DEVELOPMENT CORP. OPERATOR CODE N5035  
 ADDRESS P. O. BOX 1350 PHONE NO. 713, 871-3400  
HOU., TX. 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	11180	43-019-31310	KANE SPRING FEDERAL #27-1	SE/NW 27	25S	19E	Grand		12/28/90	
COMMENTS: Federal-Lease Field-Bartlett Flat Unit-N/A Proposed Zone-PRAX (New entity 11180 added 1-18-91) <i>Ree</i>											
<b>CONFIDENTIAL!</b>											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											

- 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)

*Blaine L. Reese* A. Reese  
 SIGNATURE  
 Regulatory 1/14/90  
 TITLE DATE

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

5. LEASE DESIGNATION AND SERIAL NO.

UTU 65971

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

KANE SPRING FEDERAL

9. WELL NO.

#27-1

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 27-25S-19E

12. COUNTY OR PARISH

Grand

13. STATE

Ut.

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  
1700' FEL & 1650' FSL of Sec. 27, T25S, R19E

RECEIVED  
713/871-3400  
JAN 30 1991  
DIVISION OF OIL, GAS & MINING

14. PERMIT NO.  
3-019-31310

15. ELEVATIONS (Show whether OF, RT, GR, etc.)  
5763' Gr

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) WEEKLY DRILLING REPORT

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

**CONFIDENTIAL**

--- SEE ATTACHED FOR DAILY ACTIVITY REPORT ---

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

SIGNED

Aline A. Reese

TITLE

Regulatory Clerk

DATE

1/28/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

1/23/91           NU BOPE, PREPARING TO TEST BOPE.

1/24/91           UNABLE TO TEST, FOUND TOOL JOINT IN MIDDLE OF  
RAMS, PU BOP STACK, ND CHOKE & FLOW LINES,  
REMOVE BTM SPOOL.

1/25/91           REPLACE BTM SPOOL, PU BOPE, NU & TEST BOPE.

1/26/91           TIH, CUT DL, PU 12 JTS SPIRAL-WATE & DAILY JARS.

1/27/91           FIN PU SPIRAL-WATE, TIH TO SHOE @ 4566', THAW OUT  
MUD LINES TO DISPLACE HOLE - LOST 92 BBL., POH  
TO SQUEEZE.



February 4, 1991

**VIA AIRBORNE EXPRESS**

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

**RECEIVED**  
FEB 07 1991DIVISION OF  
OIL, GAS & MINING

Attention: Dale Manchester

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRING FEDERAL #27-1**  
**SEC.27-25S-19E**  
**GRAND COUNTY, UT.**  
**API NO. 43-019-31310**

Dear Mr. Manchester:

Please find enclosed Columbia's weekly activity report regarding the above referenced location.

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

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. Firth

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
 (Other instructions on re-  
 verse side)

Budget Bureau No. 1004-0135  
 Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

UTU-5971

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

KANE SPRING FEDERAL

9. WELL NO.

27-1

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

SEC. 27-25S-19E

12. COUNTY OR PARISH

GRAND

13. STATE

UT.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 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.\*  
 See also space 17 below.)  
 At surface  
 1700' FEL & 1650' FSL OF SEC. 27, T25S, R19E

14. PERMIT NO.  
 43-019-31310

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 Gr. 5763'

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
 FRACTURE TREAT   
 SHOOT OR ACIDIZE   
 REPAIR WELL   
 (Other)

PULL OR ALTER CASING   
 MULTIPLE COMPLETE   
 ABANDON\*   
 CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
 FRACTURE TREATMENT   
 SHOOTING OR ACIDIZING   
 (Other)

REPAIRING WELL   
 ALTERING CASING   
 ABANDONMENT\*

WEEKLY ACTIVITY REPORT

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

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

\*\*\* SEE ATTACHED FOR DAILY DRILLING REPORT \*\*\*

RECEIVED  
 FEB 07 1991

DIVISION OF  
 OIL, GAS & MINING

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

SIGNED Aline A. Reese  
 Aline A. Reese

TITLE Regulatory Clerk

DATE 2/4/91

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

1/28/91 FOH, TIH W/RTTS & SET @ 4407', CMT W/500 SX  
CL-H @ 16.4 PPG, WOC, TEST TO 1500 #, POH  
& L/D RTTS, TIH MW 8.0

1/29/91 FIH, TAG CMT @ 4563', CCM, DRL CMT & SHOE TO  
4600'

1/30/91 DRL TO 4655', TEST SHOE TO 14.0 EMW @ 1320#,  
CCM, INCR MW TO 10.0 PPG.

1/31/91 DRL TO 4700', TFN/BHA, W&R TO BTM, DRL TO  
4820', MW 10.0

2/1/91 DRL TO 5191', ST TO 4458', DRL TO 5522',  
SURVEY @ 5191' 1 1/2, MW 10.1

2/2/91 DRL TO 5720', SURVEY @ 5687' 2 - MW 10.1

2/3/91 DRL TO 6015', CCM, INCR MW TO 10.2



February 11, 1991

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27, T25S,R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

Dear Mr. Manchester:

Please find enclosed Columbia's weekly activity report regarding the above referenced location.

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

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

**RECEIVED**  
FEB 13 1991  
DIVISION OF  
OIL, GAS & MINING

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
UTU-5971

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

N/A

8. FARM OR LEASE NAME

Kane Spring Federal

9. WELL NO.

#27-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 27, T25S, R19E

12. COUNTY OR PARISH 13. STATE

Grand

Ut.

1. OIL WELL  GAS WELL  OTHER

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.\*  
See also space 17 below.)  
At surface

1700' FEL & 1650' FSL of Sec. 27, T25S, R19E

14. PERMIT NO.  
43-019-31310

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
Gr. 5763

10. 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)

PCLL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Weekly Activity Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

CONFIDENTIAL

\*\*\* SEE ATTACHED FOR WEEKLY DRILLING REPORT \*\*\*

RECEIVED  
FEB 13 1991

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Aline A. Reese  
Aline A. Reese

TITLE Regulatory Clerk

DATE 2/11/91

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

2/4/91 DRL TO 6330', CIRC, SURVEY @ 6184' 0  
MW 10.5

2/5/91 DRL TO 6800' (KOP) CIRC, MW 10.8

2/6/91 PREPARING TO LOG, RAN GYROSCOPE SURVEY, R/D HLS, POH  
TO LOG, TIH W/LOGGING TOOLS - TOOLS FAILED. MW 10.8

2/7/91 FIN LOGGING, R/D HLS, POH W/DP

2/8/91 TEST BOPE, TIH W/DIRECTIONAL DRILLING TOOLS, MW 10.9

2/9/91 UNABLE TO CIRC, MADE 25 STD ST, C/O LINERS IN BOTH  
PUMPS F:6 1/2 - 5 1/2, TIH 5 STDS, CK RUN BOTH PUMPS,  
TIH 20 STDS, C&C, SLIDING W/MM & BUILDING ANGLE.  
MW 10.9

2/10/91 SLIDING W/MM, POH 2 STDS, CIRC, POH, C/O EQUIP., GIH  
TO 1000', TEST TOOLS, TIH TO 6920', MW 10.9  
LS @ 6868' 10.6 N-34-W

**COLUMBIA GAS**  
Development



*Conf.*

February 19, 1991

**RECEIVED**  
FEB 21 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. Firth

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRING FEDERAL #27-1**  
**SEC.27, T25S, R19E** *DRC*  
**GRAND COUNTY, UTAH**

Dear Mr. Firth:

Please find enclosed Columbia's weekly activity report regarding the above referenced location.

Columbia Gas Development Corp. respectfully requests that the information submitted be kept confidential.

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

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

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU 65971	
2. NAME OF OPERATOR Columbia Gas Development Corp.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., Tx. 77251-1350		7. UNIT AGREEMENT NAME NA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1700' FEL & 1650' FSL of Sec.27, T25S, R19E		8. FARM OR LEASE NAME KANE SPRING FEDERAL	
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5763' Gr.		10. FIELD AND POOL, OR WILDCAT WILDCAT	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC.27-25S-19E	
		12. COUNTY OR PARISH GRAND	13. STATE UT.

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

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

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

CONFIDENTIAL

---SEE ATTACHED FOR WEEKLY DRILLING REPORT---

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

SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 2/19/91

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

2/11/91 DRL TO 7093', CIRC, POH, C/O SUBS IN MM,  
TIH, MW 11.0 PPG  
LS @ 6993' 29.6 N-38-W

2/12/91 DRL TO 7143', CIRC, POH, C/O SUBS IN MM, TIH  
W/DIRECTIONAL EQUIP. & SPIRAL WATE. MW 11.2  
LS @ 7093' 39.7 N-28-W

2/13/91 TIH W/SPIRAL WATE, DRL TO 7199', WORKING ON PUMP  
NO.1, POH TO 4400', WORKING PIPE & CYCLE PUMP FOR  
TELECO. MW 11.0

2/14/91 DRL TO 7271', CBU, POH, TIH TO BTM SHOE TO STRING  
UP 10 LINES.  
LS @ 7212' 49.8 N-26-W

2/15/91 FTIH TO SHOE & STRING LINES, REAM 30' TO BTM, DRL  
TO 7324', C/O SWAB NO. 1 PUMP, MUD CUT TO 11.8  
LS @ 7244' 53.7 N-26-W

2/16/91 CIRC & INCR MW TO 14.5

2/17/91 CIRC & INCR MW TO 16.2

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

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. UTU 65971
1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
2. NAME OF OPERATOR COLUMBIA GAS DEVELOPMENT CORP.		7. UNIT AGREEMENT NAME NA
3. ADDRESS OF OPERATOR P. O. BOX 1350 HOU., TX. 77251-1350		8. FARM OR LEASE NAME KANE SPRING FEDERAL
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27-25S-19E		9. WELL NO. #27-1
		10. FIELD AND POOL, OR WILDCAT WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 27-25S-19E
14. PERMIT NO. 43-019-31310	15. ELEVATIONS (Show whether DF, RT, GR, etc.) Gr. 5763	12. COUNTY OR PARISH GRAND
		13. STATE UT.

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

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

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

Verbal obtained from Dale Manchester @ 8:30 am on 2/27/91

**PUBLIC INFORMATION**

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

SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 2/27/91

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE-  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

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 (HORIZONTAL)		5. LEASE DESIGNATION AND SERIAL NO. UTU 65971
2. NAME OF OPERATOR COLUMBIA GAS DEVELOPMENT CORPORATION 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P. O. BOX 1350 HOU., TX. 77251-1350		7. UNIT AGREEMENT NAME NA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27-T25S-R19E		8. FARM OR LEASE NAME KANE SPRING FEDERAL
14. PERMIT NO. 43-019-31310	15. ELEVATIONS (Show whether DF, RT, GR, etc.) Gr. 5763'	9. WELL NO. #27-1
		10. FIELD AND POOL, OR WILDCAT WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR ARMA 27-25S-19E
		12. COUNTY OR PARISH GRAND
		13. STATE UTAH

10. 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"/>	PEEL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

(Other) Change in proposed procedure.

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

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

Verbal approval was received from Dale Manchester @ 8:30 am on 2/27/91

TD @ 7710'  
Last Csg. Shoe @ 7510'

**CONFIDENTIAL**

Procedure:

Set 130 sx cmt plug F:7710'-7510' and Kick off in the direction originally proposed in the permit to drill (N-26-W).

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

DATE: 3-11-91  
BY: [Signature]

18. I hereby certify that the foregoing is true and correct  
SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 2/27/91

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

**CONFIDENTIAL**

2/18/91 POH, CBU, DRL TO 7356'  
LS @ 7307' 59.9 N-27-W

2/19/91 DRL TO 7510', CBU, DRL TO 7356', POH, MW 16.4  
LS @ 7462' 79.1 N-45-W

2/20/91 FOH, LD MM, TIH & REAM TO BTM (90'), CCM,  
POH & L/D DP, RUN 9 5/8" CSG.  
MW 16.6

2/21/91 FIN RUNNING CSG, SET @ 7510', CBU, CMT W/1400 SX  
CL-G, ND BOP, CUT CSG & SET TBG HEAD, TEST TO 5000#  
MW 17.0

2/22/91 NU & TEST BOPE, TIH W/SPIRAL WATE, P/U DP  
TIH & R/U TO TEST CSG. MW 17.0

2/23/91 TEST CSG TO 5000# FOR 30 MIN., FTIH, DRL CMT-FC  
& SHOE, CBU, POH 15 STDS, TIH, CIRC, POH & P/U  
CORE BARREL. MW 16.7

2/24/91 P/U & ORIENT CB, TIH, CUT CORE, CBU, POH, L/D CB,  
P/U CB FOR CORE #2. MW 16.5

2/25/91 TIH & CORE, CB JAMMED, CBU, POH, L/D CB, TIH, ORIENT  
TOOLS, W&R TO BTM, MW 17.0  
LS @ 7635' 84.3 N-47-W

2/26/91 DRL TO 7696', MW 17.0

**COLUMBIA GAS**

Development



February 27, 1991

**RECEIVED**  
MAR 04 1991

DIVISION OF  
OIL, GAS & MINING

VIA AIRBORNE EXPRESS

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

Attention: Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH

Dear Mr. Manchester:

Please find enclosed Columbia's Sundry Notice, in triplicate, and one public information copy regarding a change in the original drilling procedure. Also enclosed please find a copy of the weekly activity report for the above referenced location.

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

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

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

Aline A. Reese  
Regulatory Clerk

CC: State of Utah Natural Resources, Oil, Gas & Mining  
Mr. Firth



March 12, 1991

**RECEIVED**

**MAR 15 1991**

**DIVISION OF  
OIL GAS & MINING**

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

Attention: Mr. Dale Manchester

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310**

Dear Mr. Manchester:

Please find enclosed Columbia's weekly activity report regarding the above referenced location.

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

Sincerely,

**COLUMBIA GAS DEVELOPMENT CORPORATION**

*Aline A. Reese*

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-5971
2. NAME OF OPERATOR Columbia Gas Development Corporation 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME NA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1700' FEL & 1650' FSL if Sec.27-T25S-R19E		8. FARM OR LEASE NAME Kane Spring Federal
14. PERMIT NO. 43-019-31310	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5763 Ground	9. WELL NO. #27-1
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA 27-25S-19E
		12. COUNTY OR PARISH Grand
		13. STATE UT.

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PELL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) weekly activity report

(Other)

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

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

CONFIDENTIAL

\*\*\*See attached for weekly activity report\*\*\*

RECEIVED

MAR 15 1991

DIVISION OF  
OIL GAS & MIN. SEC.

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

SIGNED

*Aline A. Reese*  
Aline A. Reese

TITLE

Regulatory Clerk

DATE

3/12/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC. 27, T25S, R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

2/27/91 DRL TO 7710', POH, PU CMT STINGER, RIH & RU  
DOWELL. M&P 130 SX CMT PLUG. WOC, TAG CMT @ 7369',  
POH. MW 16.4

2/28/91 FOH, TIH, WOC, DRL HARD CMT TO 7515', ORIENT TOOL  
FOR KICK-OFF. MW 16.4

3/1/91 MOTOR NOT DRING, POH.

3/2/91 LEFT 2' OF MANDRIL & BIT IN HOLE, TIH, LATCH  
INTO FISH, POH W/FISH, TEST BOPE.

3/3/91 CONT TESTING BOPE, RIH, DRL TO 7560', POH, LD JARS  
& PU CMT STINGER, RIH. MW 16.4

3/4/91 CIRC, CMT W/100 SX CL-G MIXED @ 17.5 PPG, POH 3  
STDS, SI W/600# ON DP, POH, RIH W/MOTOR & TELECO  
TO 7080', CIRC.

3/5/91 UNABLE TO CIRC, POH, DP PLUGGED, L/D 14 JTS FULL OF  
CMT. P/U BIT W/JETS OPEN, RIH.

3/6/91 POH TO SPIRAL WATE, RIH - SLM, DRLD CMT, CIRC, POH,  
PU TELECO & MOTOR, RIH, DRL, ATTEMPT TO KICK-OFF,  
MW 16.7

3/7/91 DRLD TO 7618', MW 16.7

3/8/91 DRLD TO 7688', POH, MW 16.6  
LS @ 7779' 92.1 N-35.5-W

3/9/91 FOH, TFNBIT, RIH DRLD TO 7732', MW 16.6

3/10/91 DRLD TO 7510', REPAIR TELECO, RIH, DRLD TO 7830',  
MW 10.6

RECEIVED

MAR. 15 1991

DIVISION OF  
OIL GAS & MINING



March 18, 1991

**RECEIVED**

MAR 21 1991

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

DIVISION OF  
OIL GAS & MINING

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

Dear Mr. Manchester:

Please find enclosed Columbia's weekly activity report regarding the above referenced location.

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

Sincerely,

**COLUMBIA GAS DEVELOPMENT CORPORATION**

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

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

CC: Utah State Natural Resources Oil, Gas & Mining  
Mr. Firth

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-5971	
2. NAME OF OPERATOR COLUMBIA GAS DEVELOPMENT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
3. ADDRESS OF OPERATOR P. O. BOX 1350 HOU.,TX. 77251-1350		7. UNIT AGREEMENT NAME NA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1700 FEL & 1650' FSL of Sec.27-T25S-R19E		8. FARM OR LEASE NAME KANE SPRING FEDERAL	
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Ground 5763'		10. FIELD AND POOL, OR WILDCAT WILDCAT	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 27-T25S-R19E	
		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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>weekly activity report</u> <input type="checkbox"/>	

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

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

CONFIDENTIAL

\*\*\* See attached for weekly activity report \*\*\*

RECEIVED  
MAR 21 1991  
DIVISION OF  
OIL GAS & MINING

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

SIGNED Aline A. Reese - TITLE Regulatory Clerk DATE 3/19/91

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

RECEIVED

MAR 21 1991

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC. 27, T25S, R19E  
GRAND COUNTY, UT.

DIVISION OF  
OIL GAS & MINING

CONFIDENTIAL

3/11/91 DRL TO 7982', MW 16.7  
LS @ 7902' 91.5 N-32.3-W

3/12/91 DRL TO 8149', CIRC, POH 5 STDS, REAM TIGHT  
SPOT F:7854'-BTM. MW 16.6  
LS @ 8090' 93.4 N-28.4-W

3/13/91 DRL TO 8170', POH & L/D TELECO, CUT DL, TIH  
W/TELECO, CLEAN SHAKER & SCREENS, REPAIR PUMP  
#1, MW 16.7  
LS @ 8121' 93.6 N-28.4-W

3/14/91 DRL TO 8240', MW 16.6  
LS @ 8183' 93.2 N-28.1-W

3/15/91 DRL TO 8244', MAKE A 10 STD ST, CLEAN SHAKERS &  
SCREENS, WORK ON PUMP #1, ATTEMPT TO DRL, POH 20  
STDS, TIH, CIRC, POH & L/D MM, LEFT FISH (BTM OF  
MOTOR & BIT) IN HOLE, TFNBIT, MW 16.6+

3/16/91 TIH, CCM, POH, R/U P/U MACHING & 5-1/2" CSG CREW,  
TIH TO 780' HANGER SET, ATTEMPT TO PULL LOOSE  
FAILED, POH W/SETTING TOOL, MW 16.7

3/17/91 TIH W/MILL & TAG HANGER, MILL OVER HANGER, NOT  
ENOUGH WEIGHT ON MILL, POH, POH 7 STDS, TIH W/  
7 STDS SPIRAL WATE, MW 16.6



March 21, 1991

VIA AIRBORNE EXPRESS

**RECEIVED**

MAR 25 1991

DIVISION OF  
OIL GAS & MINING

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

Dear Mr. Manchester:

Please find enclosed Columbia's Sundry Notice, in triplicate, and one public information copy, reporting the actual bottom hole location and top of liner for the above referenced location.

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. Firth

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Budget Bureau No. 4160-1188  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-65971
2. NAME OF OPERATOR COLUMBIA GAS DEVELOPMENT CORPORATION 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME NA
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27-25S-19E		8. FARM OR LEASE NAME KANE SPRING FEDERAL
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1
15. ELEVATIONS (Show whether DF, KT, GR, etc.) Ground 5763'		10. FIELD AND POOL, OR WILDCAT WILDCAT
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 27-25S-19E
		12. COUNTY OR PARISH 13. STATE GRAND UTAH

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

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

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

**CONFIDENTIAL**

Please note the following data:

1. Top of liner is @ 7438
2. Actual Bottom Hole location is @  
2651.3 FSL & 2329.8 FEL of Sec.27,T25S,R19E

**RECEIVED**

MAR 25 1991

DIVISION OF  
OIL GAS & MINING

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

SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 3/20/91

Aline A. Reese

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-65971	
2. NAME OF OPERATOR Columbia Gas Development Corporation 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME NA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27-T25S-R19E		8. FARM OR LEASE NAME KANE SPRING FEDERAL	
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Ground 763'		10. FIELD AND POOL, OR WILDCAT WILDCAT	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 27-25S-19E	
		12. COUNTY OR PARISH GRAND	13. STATE UTAH

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

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

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

**PUBLIC INFORMATION**

**RECEIVED**

MAR 25 1991

DIVISION OF  
OIL GAS & MINING

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

SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 3/20/91  
Aline A. Reese

(This space for Federal or State office use)

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

\*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.

# COLUMBIA GAS

## Development



TITLE  
COMPLETION PROGNOSIS  
KANE SPRING FEDERAL 27-1  
GRAND COUNTY, UTAH

DATE	REV. NO.	PAGE
26 MAR 91	ORIG	2 OF 2

# CONFIDENTIAL

### PROCEDURE

1. Fill rat & mouse holes. Level location & build rig pad. Set rig anchors w/marker poles.
2. MI & RU rig. ND tree & NU BOP's per attached diagram. Test BOP's w/testers to spec.
3. RIH w/Halliburton bridge plug retrieving tool. Circulate & latch BP & pull same.
4. RIH w/mill & 9-5/8" scraper to TOL. C&C mud. POOH.
5. Set RBP @ 1 jt. above TOL.
6. RU loggers & run bond log as per attached procedure.
7. Retrieve RBP.
8. RIH w/mill & drill out float valve. Continue in hole to 8240'. C&C mud. POOH.
9. RIH on EL with the following:
  - Model D packer
  - Mill out extension
  - X/O
  - pup jt - 6'
  - "X" L/N
  - pup jt - 6'
  - pump out plug
- Set at 6700'.
10. Run production tubing. Test connections to 5000#.
11. ND BOP's & NU tree. Test to 5000#.
12. RU well testers. Test lines to 5000#.
13. Pressure up on tubing & blow out plug.
14. Open well slowly & test as directed.

NRS/sgm  
Attachment

# COLUMBIA GAS

Development



DATE	REV. NO.	PAGE
26 MAR 91	ORIG	OF

## CONFIDENTIAL

WELL: KANE SPRINGS FEDERAL 27-1  
 COUNTY: GRAND  
 STATE: UTAH  
 BLOCK: \_\_\_\_\_  
 OCSG: \_\_\_\_\_

W.D.: \_\_\_\_\_  
 G.L.: \_\_\_\_\_  
 RKB: \_\_\_\_\_

TREE GUN: \_\_\_\_\_

CASING  
 SIZE: 20" SACKS: 615 618  
 GR: H-40 CLASS: \_\_\_\_\_  
 #/FT: 20 #/GAL: \_\_\_\_\_  
 SET @: 618 YIELD: \_\_\_\_\_  
 TOC: \_\_\_\_\_

TREE  
 SIZE: 2 9/16  
 WP: 5M

TBG HD  
 SIZE: 11  
 WP: 5M

CASING  
 SIZE: 1 3/8 SACKS: 900/415 4585  
 GR: K-55 CLASS: \_\_\_\_\_  
 #/FT: 61 #/GAL: \_\_\_\_\_  
 SET @: 4585 YIELD: \_\_\_\_\_  
 TOC: NR

16.7#/GAL OIL BASE LEFT IN HOLE

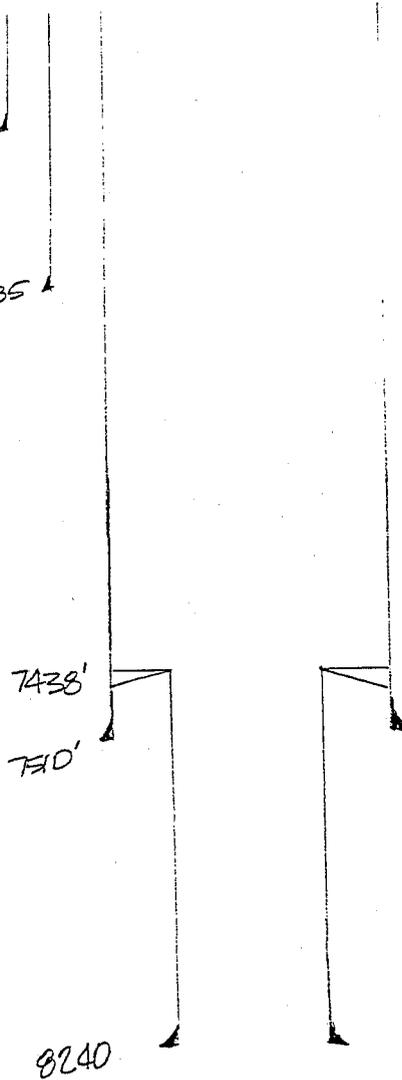
CASING  
 SIZE: 9 5/8" SACKS: 1400  
 GR: S-95 CLASS: 9  
 #/FT: 53.5 #/GAL: \_\_\_\_\_  
 SET @: 7510 YIELD: \_\_\_\_\_  
 TOC: \_\_\_\_\_

CASING  
 SIZE: 5 1/2 SACKS: NOT  
 GR: S-95 CLASS: \_\_\_\_\_  
 #/FT: 20 #/GAL: \_\_\_\_\_  
 SET @: 8240 YIELD: \_\_\_\_\_  
 TOC: \_\_\_\_\_

CASING  
 SIZE: \_\_\_\_\_ SACKS: \_\_\_\_\_  
 GR: \_\_\_\_\_ CLASS: \_\_\_\_\_  
 #/FT: \_\_\_\_\_ #/GAL: \_\_\_\_\_  
 SET @: \_\_\_\_\_ YIELD: \_\_\_\_\_  
 TOC: \_\_\_\_\_

CASING HARDWARE  
HANGER T/7438  
FS T/8237

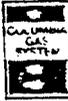
LINER HAS ONE hole PER 3'



PBTD: 8240  
 TD: 8244

# COLUMBIA GAS

## Development



### Cement Bond Logging Guidelines

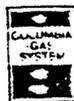
DATE	REV. NO.	PAGE
	1	1 OF 2

**CONFIDENTIAL**

- 1.0 Run junk basket and gauge ring to PBTD.
- 2.0 Record density of fluid in hole and maximum recorded temperature on log heading.
- 3.0 Log a 200 ft. repeat across a zone of interest without any pressure (0 psi) on casing.
- 4.0 Locate a potential microannulus zone (high amplitude) and stop tool there.
  - 4.1 Switch to time drive (log time).
  - 4.2 Pressure up slowly and monitor amplitude. Continue until amplitude reaches it's lowest consistent value. Run main log at this pressure. (Check with Columbia representative for any pressure limitations, especially a liner top). See exhibit 1.
- 5.0 Include amplitude and x5 amplitude (mv). Neither should ever touch zero amplitude line.
- 6.0 Record transit time on a 100 micro second scale if possible, 200 micro second maximum. Critical transit time should not exhibit any signs of eccentricization (check in free pipe, should be straight line except for collars).
- 7.0 If well has a liner, first log to 100 ft above liner top, then POOH, adjust or replace centralizers with proper size for casing, RIH and log from liner top on up.
- 8.0 Do not exceed gamma ray openhole logging speed until above last zone of interest.
- 9.0 Continue log to 200 ft above top of cement, (200 ft of free pipe recorded).
- 10.0 If pulsed echo or cement evaluation tool is being run, always include the following curves in presentation:
  - casing ovality
  - mean diameter
  - deviation
- 11.0 Label all curves at top and bottom of main log.
- 12.0 Sensitivity should be adjusted so that collar log is as free of noise as possible, and VDL is clear.
- 13.0 Record any unusual conditions that may affect the interpretation of the log in the remark section.
- 14.0 Do not hesitate to ask if anything listed is unclear, or make suggestions based on local expertise.

# COLUMBIA GAS

Development



## Cement Bond Logging Guidelines

DATE	REV. NO.	PAGE
	1	2 OF 2

**CONFIDENTIAL**

CAMRA			CCL UNDELA								
B	API	100									
TT			PIPE XS								
520	USEC	320	B	20							
CCL			PIPE AMPL.			MSC					
			B	100	200	USEC	1200				
									11400		
									1500 PS		
									1200 PS		
									1000 PS		
									800 PS		
									600 PS		
									400 PS		
									200 PS		
									0 PS		
CAMRA			CCL UNDELA			TOOL STATIONARY AT 11,450' WHILE SURFACE PRESSURE IS INCREASING.					
B	API	100									
TT			PIPE XS								
520	USEC	320	B	20							
CCL			PIPE AMPL.			MSC					
			B	100	200	USEC	1200				

**COLUMBIA GAS**

Development



TITLE BOP SKETCH

KANE SPRING FEDERAL 27-1

DATE

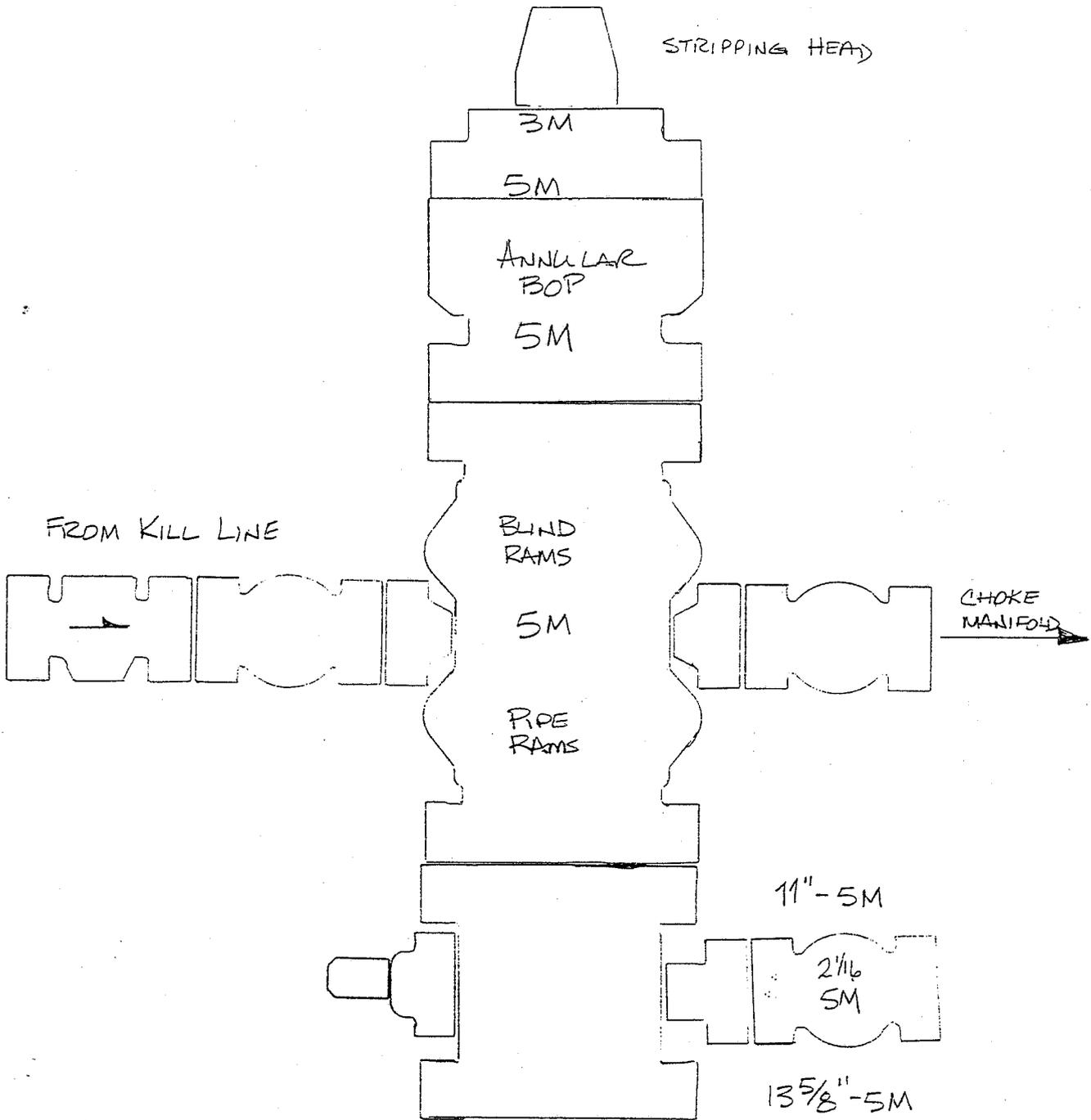
3.26.91

REV. NO.

PAGE

OF

**CONFIDENTIAL**



(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EXPLAIN IN TRIPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

UTU-65971

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

Kane Spring Federal

9. WELL NO.

#27-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec.27-10S-19E

12. COUNTY OR PARISH 13. STATE

Grand Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER  (Horizontal)

2. NAME OF OPERATOR  
Columbia Gas Development Corp.

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

1700' FEL & 1650' FSL of Sec.27-10S-19E

14. PERMIT NO.  
43-019-31310

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
Ground 5763

10. 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)

PELL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

Completion Procedure

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

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

**PUBLIC INFORMATION**

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

SIGNED

*Aline A. Reese*  
Aline A. Reese

TITLE

Regulatory Clerk

DATE

3/27/91

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*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.

**COLUMBIA GAS**  
Development



March 27, 1991

VIA AIRBORNE EXPRESS

**RECEIVED**

APR 01 1991

DIVISION OF  
OIL GAS & MINING

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

Attention: Branch of Mineral Fluids

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27, T25S, R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

Gentlemen:

Please find enclosed Columbia's Sundry Notice in triplicate, and one Public Information copy, regarding the above referenced location.

Columbia Gas Development Corporation respectfully requests that all information submitted be kept confidential.

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

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

A handwritten signature in cursive script, appearing to read "Aline A. Reese".

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

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 (Horizontal)		5. LEASE DESIGNATION AND SERIAL NO. UTU-65971
2. NAME OF OPERATOR Columbia Gas Development Corp. 713/871-3400		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P.O. Box 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27-10S-19E		8. FARM OR LEASE NAME Kane Spring Federal
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Ground 5763		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.27-T25S-R19E
		12. COUNTY OR PARISH Grand
		13. STATE Utah

CONFIDENTIAL

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

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

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

See attached for the following:

1. Completion Procedure
2. Wellbore Sketch
3. Cement Bond Log Guidelines
4. BOP Sketch

RECEIVED

APR 01 1991

DIVISION OF  
OIL GAS & MINING

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

SIGNED Aline A. Reese - TITLE Regulatory Clerk DATE 3/27/91  
Aline A. Reese

(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

## Life Effect Life Life Life

Life's involvement in Utah at meeting.

not, we'll have to request that information from the California Insurance Commission, and then it will depend on how long it takes them to get the information to us," Mr. Allison said.

Utah Insurance Commission officials said local policyholders should understand that conservatorship does not mean the company is insolvent or will be liquidated.

It does mean there is an immemorial moratorium on policy surrenders and loans, the department said.

California Insurance Commission, however, has indicated that benefits, medical payments and monthly annuities should continue while the company remains under control.

Executive Life has been negotiating with a consortium of European companies to sell its major assets, the department said. Those negotiations, if successful, would ensure the security of policyholders who own annuities.

Utah and California administrators created by contributions to the insurance industry to guarantee policyholders payment of a portion of outstanding claims.

Utah fund would only kick in if a policy is declared impaired or is subject to liquidation, said Art Duman, managing secretary of the Utah and Disability Insurance Guaranty Association.

It looks like Executive Life is a way from liquidation right now, Mr. Green said.

# Oil Future Hinges on Horizontal Well

By Joe Rolando  
 Tribune Staff Writer

The barometer of Utah's next "significant" oil boom could be the continued success of a well recently completed by Houston-based Columbia Gas Development Corp. in the Paradox Basin, about 10 miles northwest of Moab.

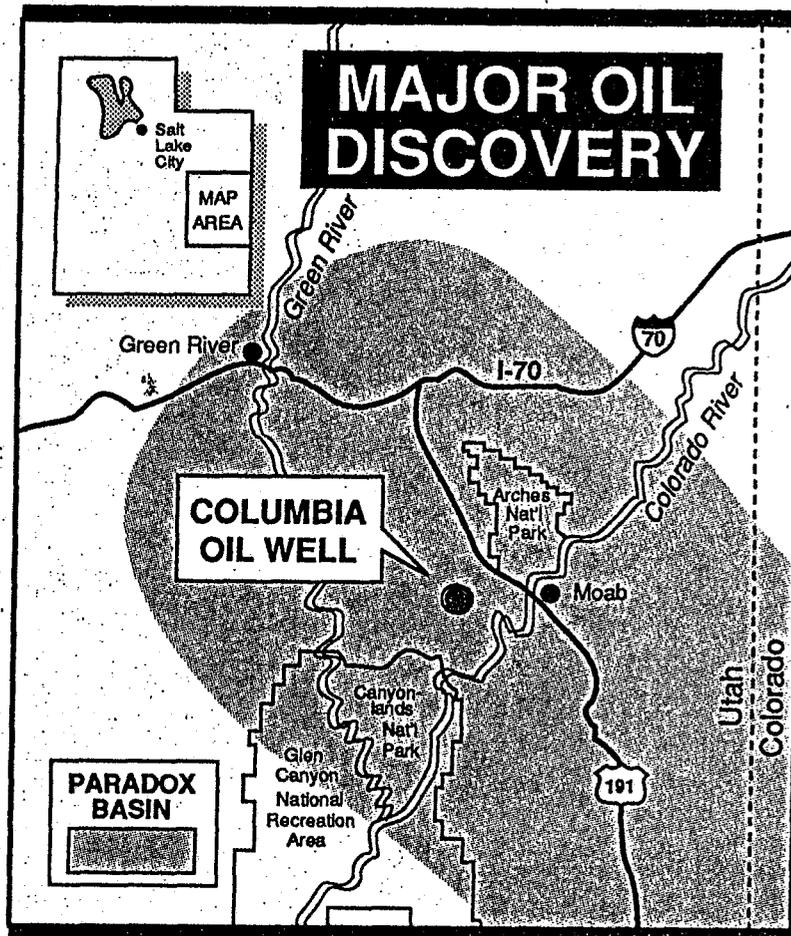
In giving that assessment Monday, State Geologist M. Lee Allison said the boom would be unique because, for the first time in Utah history, horizontal well drilling was used successfully, rather than the conventional vertical well drilling.

Mr. Allison said the Columbia Gas well — known as the Kane Spring Federal No. 27-1 — is the first successful wildcat well drilled horizontally in Utah. A wildcat well is one in an oil field with unproven reserves.

But Mr. Allison said whether oil development in that area would boom hinges on whether the Columbia Gas well continues producing about 2,300 barrels of oil per day or if production drops quickly but holds at "a good rate."

He said the well is in the Paradox Fold and Fault Belt on the north end of the Paradox Basin. He said the zone into which the Columbia Gas well is producing is the Cane Creek shale, one of several thick shale beds comprising the Paradox Fold and Fault Belt.

"The Cane Creek shale underlies the entire southeast part of the state that is particularly fractured in the Paradox Fold and Fault Belt," said Mr. Allison. "This belt, which extends into Colorado, could



The Salt Lake Tribune  
 Map shows the location of Columbia Gas' Kane Spring well, the first successful horizontally drilled wildcat well in Utah.

extend as long as 2,500 square miles in Utah alone."

Mr. Allison said the Paradox

Fold and Fault Belt runs northwest and southeast between Arches and Canyonlands national parks.

The technology of horizontal drilling was developed in Utah between 1982 and 1984 in the Gray Trail Creek Oil Field on the north end of the San Rafael Swell, south of Price, by Skyline Oil Co., a subsidiary of Texas Eastern Corp.

Mr. Allison said horizontal drilling can be successful because it bores into a large number of vertical fractures in the shale into which oil drains and becomes trapped.

"Horizontal drilling exposes more fractures in shale to the drill bit. What happens is the drill goes vertically for a while then turns horizontally," explained Mr. Allison. "It can be at a high angle from the vertical position and not necessarily perfectly horizontal."

He said from that position, the drill exposes a greater portion of the formation to the drill bit.

Mr. Allison said horizontal drilling not only increases oil productivity but also the chance for success. He added, "There are areas in the past which were very commercial or not economically viable using vertical drilling. But with horizontal drilling you may increase production in these areas 400 to 500 percent."

Columbia Gas is operator of the Kane Spring Federal No. 27-1 and has a 50 percent working interest. Other participants in the discovery, which tested for one hour on a 14/64 inch choke at 2,302 barrels of oil and 627,000 cubic feet of gas per day, include Exxon Co. USA, which has a 50 percent working interest.

An undisclosed "industry partner" retains a 35 percent working interest after pay out.

COLUMBIA GAS DEVELOPMENT DRILLS  
SUCCESSFUL WILDCAT IN UTAH

*del - conf*  
43019 31310

HOUSTON, TEXAS -- April 10, 1991 -- Columbia Gas Development Corporation, the Houston based oil and gas exploration and production subsidiary of The Columbia Gas System, Inc. (NYSE:CG) today announced the successful completion of the Kane Spring Federal #27-1 well.

The Kane Spring Federal #27-1 is a horizontally drilled wildcat located in Grand County, Utah and was IP'd at a rate of 914 barrels of oil and 290 thousand cubic feet of gas per day through a 10/64-inch choke with a flowing tubing pressure of 3460 p.s.i. according to John P. Bornman, Jr., President of Columbia Gas Development. The well was additionally tested for one hour on a 14/64-inch choke at a rate of 2,302 barrels of oil and 627 thousand cubic feet of gas per day. This well was drilled to a measured depth of 8,244 feet (7,248 feet TVD) and is producing from the Cane Creek zone of the Paradox formation.

Columbia Gas Development operates the well and has a 50% working interest in it. Other participants in this discovery include Exxon Company, U.S.A. (50%) and an industry partner which retains a 35% reversionary working interest after payout. Of significance is the fact that this is the first successful horizontally drilled wildcat well in Utah. Further development plans are currently underway with a second well expected to spud in the area soon. The acreage block that Columbia and its partners control consists primarily of federal acreage located in Grand County, Utah in the amount of 45,000+ acres. Columbia's working interest throughout the block is 32.5%

Columbia Gas Development is actively engaged in domestic oil and gas exploration, production and marketing along the Gulf Coast (both onshore and offshore), California, and in the Mid-Continent and Rocky Mountain regions.

Other Columbia Gas System subsidiaries located in Charleston, W. Va., and Calgary, Alberta, carry out the System's oil and gas exploration and production efforts in Appalachia and Canada. Columbia plans to invest approximately \$165 million in exploration and production activities in 1991.

The Columbia Gas System, Inc. is one of the nation's largest natural gas systems. Subsidiary companies are engaged in the exploration, production, purchase, storage, transmission and distribution of natural gas. Columbia serves, directly or indirectly, over eight million customers in 14 states and the District of Columbia.

## Northern Paradox Basin Horizontal Test Reportedly Producing 500 BOPD

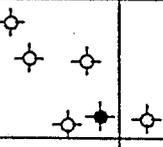
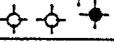
A HORIZONTAL test of lower Paradox shales drilled by Columbia Gas Development Corp on the north side of the Paradox Basin 13 miles west of Moab, Utah, reportedly produced oil at the rate of about 500 bbls per day.

The southwestern Grand County prospect, the 27-1 Kane Spring-Federal, was drilled from a surface location 1650 ft from the south line and 1700 ft from the east line (nw se) of 27-25s-19e. It was projected to reach true vertical depth at 7200 ft at a bottom-hole location 1400 ft from the north line and 2800 ft from the east line (se nw) of the same section (PI 11-16-90).

Reports indicate Columbia tested an approximate 645-ft horizontal interval for 14 hours. The company has not yet released any details.

The venture, which was set up to evaluate the fractured Cane Creek shale zone of lower Paradox, offsets the abandoned Bartlett Flat field discovery, which produced less than 1,800 bbls of oil from Cane Creek.

Columbia late last year established the Kane Springs Federal Exploratory Unit, which encompasses 20,674.18 acres in sections 7-9 and 14-36 of 25s-19e, and sections 1-3 and 10-12 of 26s-19e. Other leaseholders in the unitized area include Dallas-based EP Operating Co, Coors Energy Co and Oryx Energy Co.

	Bartlett Flat	T 25 S
	Columbia Horizontal Test	36
	R19E	1
		T 26 S
	Big Flat	
		24

## Dugan Expands San Juan Basin Gallup Program

FARMINGTON INDEPENDENT Dugan Petroleum Corp has staked a 4930-ft test of Gallup in the southern San Juan Basin about nine miles west-northwest of Nageezi, New Mexico.

The 1 Target, se nw 20-24n-10w, San Juan County, is within two miles of oil production in two pools...Bisti-Gallup to the east and South Bisti-Gallup to the south. It's a half mile south of a 5035-ft Gallup test staked by the company last year at the 1 Henson in se sw 17-24n-10w. No activity has been reported at that site.

Six miles south-southeast of Nageezi in southeastern San Juan County, Dugan recently staked the 174 LH-State, ne ne 32-23n-8w, set up as a 4850-ft test of Gallup (PI 4-8-91). The latter venture is a half mile southeast of an unnamed Gallup/Mancos discovery completed in 1986 by Yates Petroleum.

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Rocky Mountain Region Report (USPS 113-170). Price: \$1560 per year. "Northern Edition" Price: \$1320 per year. "Wyoming Edition" Price \$1320 per year. "Four Corners-Intermountain Edition" Price \$960 per year. "Southeastern Edition" Price \$960 per year. "Newsletter Edition" Price \$888 per year. Published by Petroleum Information Corporation, Monday through Friday except New Years Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas Day and the day after, 4100 East Dry Creek Road, Littleton, CO 80122. Second class postage paid at Littleton, CO 80122 and additional mailing offices. Postmaster: Send address changes to: Rocky Mountain Region Report, P.O. Box 2612, Denver, CO 80201.

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. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Columbia Gas Development Corp. 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 1700 FEL & 1650 FSL  
At top prod. interval reported below 1989.31 FSL & 1072.52 FEL  
At total depth 2600 FSL & 2380 FEL

14. PERMIT NO. 43-019-31310 DATE ISSUED 12/12/90

15. DATE SPUDED 12/28/90 16. DATE T.D. REACHED 3/15/91 17. DATE COMPL. (Ready to prod.) 4/8/91

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* Ground 5763

20. TOTAL DEPTH, MD & TVD 8244 MD/7248 TVD 21. PLUG, BACK T.D., MD & TVD 8240 MD/7248 TVD 22. IF MULTIPLE COMPL., HOW MANY\* NA

23. INTERVALS DRILLED BY ROTARY TOOLS XX CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
F: 7510MD/7269 T: 8244MD/7248

26. TYPE ELECTRIC AND OTHER LOGS RUN LSS/DIL/CBL

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20" H-40	94#	618'	24"	615 sx. to Sfc.	none
13 3/8" K-55	61#	4585'	17 1/2"	900 lite + 415 Cl-B	none
9 5/8" S-95	53.5#	7510'	12 1/4"	1400 sx. Cl-G	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
5 1/2" S-95	7438'	8240	none	na

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	6700	6700

31. PERFORATION RECORD (Interval, size and number)  
From: 7510' MD/ 7269 TVD  
To: 8244' MD/ 7248 TVD

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7510'-8244'	Perforated tubing one hole per 3'

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/6-4/7/91	24	10/64	→	914	290	0	317

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
3460	0	→	914	290	0	43

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Gas Flared - Oil Sold to Amoco

35. LIST OF ATTACHMENTS  
Logs (requesting confidentiality) Directional Survey and Core Analysis

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

5. LEASE DESIGNATION AND SERIAL NO. UTU-5971  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA  
7. UNIT AGREEMENT NAME KANE SPRINGS FEDERAL  
8. FARM OR LEASE NAME UNIT KANE SPRINGS FEDERAL  
9. WELL NO. #27-1  
10. FIELD AND POOL, OR WILDCAT WILDCAT  
11. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA SEC. 27-T25S-R19E  
12. COUNTY OR PARISH GRAND  
13. STATE UTAH

CONFIDENTIAL

19. ELEV. CASINGHEAD  
25. WAS DIRECTIONAL SURVEY MADE Yes  
27. WAS WELL CORED Yes

TEST WITNESSED BY Herman Middlebrook

\* (will be submitted under separate cover)

SIGNED Alex G. Reese TITLE Regulatory Clerk DATE 4/10/91

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

CONFIDENTIAL

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, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	605	905	sandstone, conglomerates, shales siltstones, thin sandstones sandstones, mudstones, sandy shales	Cane Creek Clastic	7233	7165
Moenkopi	905	1430				
Cutler	1430	2640				
Top Paradox Salt	4200	TD				

38. GEOLOGIC MARKERS

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APR 15 1991

DIVISION OF  
OIL GAS & MINING



115 Farmington Ave. - Farmington, NM 87401

(505) 325-6622

ANALYSIS NO. CGD10002

WELL/LEASE INFORMATION

COMPANY: COLUMBIA GAS DEVELOPMENT

WELL NAME: FED. 27-1

LOCATION: GRAND COUNTY, UTAH

LEASE: WILDCAT

FORMATION: TIGHT HOLE

METER NO.:

LINE PRESSURE: 690 PSIG

SAMPLE TEMP.: 107 DEG.F

WELL FLOWING:

DATE SAMPLED: 4/5/91

SAMPLED BY: MISSY BERGMAN-HS

REMARKS: SEPARATOR SAMPLE; TESTED FOR PRESENCE OF H<sub>2</sub>S-NONE FOUND;  
HEATED TO GPA STANDARD

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	1.475	0.000
CO <sub>2</sub>	0.005	0.000
METHANE	80.446	0.000
ETHANE	11.973	3.200
PROPANE	4.267	1.174
I-BUTANE	0.384	0.126
N-BUTANE	0.864	0.272
I-PENTANE	0.155	0.057
N-PENTANE	0.201	0.073
HEXANE+	0.230	0.100
TOTAL	100.000	5.002
COMPRESSIBILITY FACTOR	(1/Z)	1.00320
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1204.85
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1184.00
REAL SPECIFIC GRAVITY		0.69238

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE 580 PSIG

DATE RUN: 4/7/91

ANALYSIS RUN BY: CHELLE DURBIN

Report Date: 4-08-81



CRUDE OIL ANALYSIS REPORT

CLIENT: Columbia Gas Development

TECH, Inc.  
333 East Main  
Farmington  
New Mexico  
87401  
505/327-3311

Well Name: Kane Spring Fed 27-1  
Well Location:  
Field:

Formation:  
County/State: Grand/UT  
Sample Source: Separator

Date Sampled: 04-05-81  
Depth (ft):  
Est. Production Rate (BPD):

Sampled By: H.R.S.  
Sample Temp. (deg F):  
Sample Pressure (psig):

Laboratory No: 25-910406-1  
Sample Matrix: Liquid Petroleum  
Condition: Ambient Conditions

Date Received: 4-08-81  
Date Analyzed: 4-08-81  
Presevative: None

Analysis Requested: Specific Gravity and Paraffin/Asphaltene Content

GENERAL CHARACTERISTICS

Specific Gravity @ 60 deg. F: 0.8108  
A.P.I. Gravity @ 60 deg. F: 43  
Paraffin Content (% by wt.): 22.8  
Asphaltene Content (% by wt.): N.D.  
Cloud Point (deg. F): \_\_\_\_\_  
Pour Point (deg. F): \_\_\_\_\_  
Sediment & Water (% by vol.): \_\_\_\_\_  
BTU Value: \_\_\_\_\_  
Sulfur Content (% by wt.): \_\_\_\_\_  
Ash Content (% by wt.): \_\_\_\_\_

ND - Parameter not detected.

Comments: Sample collected in a plastic bottle.

MKL  
Analyst

H  
Review



April 2, 1991

BUREAU OF LAND MANAGEMENT  
Moab District  
82 E. Dogwood  
Moab, Utah 84532

Attention: Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRING FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

Dear Mr. Manchester:

Please find enclosed Columbia's Sundry Notice, in triplicate, regarding the above referenced location.

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. Firth

**RECEIVED**

APR 11 1991

DIVISION OF  
OIL GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-5971	
2. NAME OF OPERATOR COLUMBIA GAS DEVELOPMENT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
3. ADDRESS OF OPERATOR P. O. BOX 1350 Hou., TX. 77251-1350		7. UNIT AGREEMENT NAME NA	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  1700 FEL & 1650 FSL of Sec.27-25S-19E		8. FARM OR LEASE NAME KANE SPRING FEDERAL	
14. PERMIT NO. 43-019-31310		9. WELL NO. #27-1	
15. ELEVATIONS (Show whether DF, RT, CR, etc.) Ground 5763'		10. FIELD AND POOL, OR WILDCAT WILDCAT	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC.27-T25S-R19E	
		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"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>weekly activity report</u> <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

\*\* See attached for activity report.

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APR 11 1991

DIVISION OF  
OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 4/2/91  
Aline A. Reese  
(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

COLUMBIA GAS DEVELOPMENT CORPORATION

KANE SPRING FEDERAL #27-1  
SEC.27,T25S,R19E  
GRAND COUNTY, UT.

CONFIDENTIAL

- 3/18/91 FTIH, MILL ON HANGER, POH & L/D HANGER, TIH & SCREW INTO FISH, POH, TIH W/SPEAR & LATCH INTO FISH - JAR ON SAME. RELEASE SPEAR, P/U MILL, TIH & MILL ON HANGER, POH, TIH SPEAR INTO HANGER & L/D SAME W/SPEAR & 18 JTS. 5-1/2" CSG. TIH W/BIT.
- 3/19/91 FTIH, CIRC, POH, RUN 18 JTS. 5-1/2" CSG TO 8240 ' TIH W/LINER - TOL @ 7438', POH.
- 3/20/91 ND BOP'S - NU TREE. CLEAN PITS, RIG RELEASED @ 1900 HRS.
- FINAL DRILLING REPORT
- 3/27/91 PREPARE LOCATION & MI EQUIPMENT.
- 3/28/91 PREPARE TO NU BOP STACK. MW 16.7
- 3/29/91 NOTIFIED BLM OF BOP TEST - TEST BOPE. SIH W/76 JTS 2-7/8 6.5# N-80 TBG. CCM, MW 16.7
- 3/30/91 RIH W/RET. TOOL, CIRC & CCM IN 9-5/8" CSG., CAUGHT TOOL @ 6774', RELEASED TOOL & POH, TIH W/BIT.
- 3/31/91 TAGGED TOL @ 7438', CIRC & CCM, POH W/BIT & CSG SCRAPER, TIH W/HOWCO 9-5/8" RBP, SET @ 7586' & TEST. POH

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APR 11 1991

DIVISION OF  
OIL GAS & MINING



April 10, 1991

BUREAU OF LAND MANAGEMENT  
MOAB DISTRICT  
P. O. Box 970  
Moab, Utah 84532

**COPY**

Attention: Mr. Dale Manchester

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRINGS FEDERAL #27-1**  
**SEC.27-T25S-R19E**  
**GRAND COUNTY, UTAH**  
**API NO. 43-019-31310**

Dear Mr. Manchester:

Please find enclosed Columbia's Completion Report (Form 3160-4) and logs in duplicate. Also enclosed are two copies of the Directional survey run while drilling the well.

I will forward, under separate cover, two copies of the final Core Analysis upon receipt as well as a second copy of the cement bond log.

Columbia Gas Development Corporation respectfully requests that all information submitted be kept confidential for the maximum amount of time available.

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  
Regulatory Clerk

AAR  
Encl.

**RECEIVED**

APR 15 1991

DIVISION OF  
OIL GAS & MINING

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

RECEIVED

APR 15 1991

DIVISION OF  
OIL GAS & MINING

Cobb Directional Drilling, Inc.  
114 East Angus  
Youngsville, LA 70592  
(318) 237-7070

COLUMBIA GAS DEVELOPMENT  
KANE SPRING WELL NO. 27-1  
GRAND COUNTY UTAH

43-019-31310  
Sec. 27, T.25S, R.19E  
CONF

Kelly bushing elevation: 0.00  
Plane of vertical section: N 26 0 W

COLUMBIA GAS DEVELOPMENT  
 KANE SPRING WELL NO. 27-1  
 GRAND COUNTY UTAH

RADIUS OF CURVATURE CALCULATIONS

Saturday, February 17, 1990 Page 1

MEASURED DEPTH Feet	B O R E - H O L E INCLINATION Degrees	D I R E C T I O N Degrees	COURSE LENGTH Feet	VERTICAL DEPTH Feet	SUB-SEA DEPTH Feet	R E C T A N G U L A R C O O R D I N A T E S Feet		VERTICAL SECTION Feet	C L O S U R E S DISTANCE Feet		D I R E C T I O N Degrees	DOGLEG SEVERITY Deg/100ft.
0.00	0.00	0.00		0.00	0.00	0.00 N	0.00 E	0.00	0.00	0.00		
100.00	0.13	S 60.10 W	100.00	100.00	100.00	0.06 S	0.10 W	-0.01	0.11	S 60.10 W		0.13
200.00	0.10	S 60.84 W	100.00	200.00	200.00	0.16 S	0.27 W	-0.02	0.31	S 60.34 W		0.03
300.00	0.12	S 50.27 W	100.00	300.00	300.00	0.26 S	0.43 W	-0.05	0.51	S 58.52 W		0.03
400.00	0.08	S 89.15 W	100.00	400.00	400.00	0.32 S	0.59 W	-0.03	0.67	S 61.35 W		0.08
500.00	0.03	S 85.78 W	100.00	500.00	500.00	0.33 S	0.69 W	0.01	0.76	S 64.53 W		0.05
600.00	0.12	S 3.18 W	100.00	600.00	600.00	0.41 S	0.77 W	-0.03	0.88	S 61.84 W		0.12
700.00	0.19	S 8.61 W	100.00	700.00	700.00	0.68 S	0.80 W	-0.26	1.05	S 49.53 W		0.07
800.00	0.28	S 28.29 W	100.00	800.00	800.00	1.07 S	0.93 W	-0.55	1.42	S 40.97 W		0.12
900.00	0.18	S 54.66 W	100.00	900.00	900.00	1.37 S	1.19 W	-0.71	1.81	S 41.08 W		0.14
1000.00	0.32	S 7.80 W	100.00	1000.00	1000.00	1.73 S	1.41 W	-0.94	2.23	S 39.22 W		0.24
1100.00	0.40	S 35.31 W	100.00	1099.99	1099.99	2.31 S	1.64 W	-1.36	2.83	S 35.40 W		0.19
1200.00	0.31	S 54.50 W	100.00	1199.99	1199.99	2.75 S	2.08 W	-1.56	3.44	S 37.09 W		0.15
1300.00	0.31	S 32.76 W	100.00	1299.99	1299.99	3.13 S	2.45 W	-1.74	3.98	S 37.97 W		0.12
1400.00	0.50	S 29.24 W	100.00	1399.99	1399.99	3.74 S	2.81 W	-2.13	4.68	S 36.92 W		0.19
1500.00	0.48	S 44.08 W	100.00	1499.98	1499.98	4.42 S	3.32 W	-2.52	5.53	S 36.88 W		0.13
1600.00	0.38	S 57.84 W	100.00	1599.98	1599.98	4.90 S	3.90 W	-2.69	6.26	S 38.55 W		0.14
1700.00	0.40	S 35.95 W	100.00	1699.98	1699.98	5.36 S	4.40 W	-2.89	6.93	S 39.36 W		0.15
1800.00	0.57	S 33.57 W	100.00	1799.98	1799.98	6.05 S	4.88 W	-3.30	7.77	S 38.86 W		0.17
1900.00	0.51	S 50.78 W	100.00	1899.97	1899.97	6.75 S	5.51 W	-3.65	8.71	S 39.22 W		0.17
2000.00	0.44	S 46.10 W	100.00	1999.97	1999.97	7.30 S	6.13 W	-3.87	9.53	S 40.02 W		0.08
2100.00	0.45	S 45.16 W	100.00	2099.96	2099.96	7.85 S	6.69 W	-4.12	10.31	S 40.44 W		0.01
2200.00	0.56	S 30.90 W	100.00	2199.96	2199.96	8.54 S	7.23 W	-4.51	11.19	S 40.25 W		0.17
2300.00	0.75	S 36.56 W	100.00	2299.95	2299.95	9.49 S	7.87 W	-5.08	12.33	S 39.65 W		0.20
2400.00	0.75	S 38.45 W	100.00	2399.95	2399.95	10.53 S	8.66 W	-5.67	13.64	S 39.44 W		0.02

COLUMBIA GAS DEVELOPMENT  
 KANE SPRING WELL NO. 27-1  
 GRAND COUNTY UTAH

RADIUS OF CURVATURE CALCULATIONS

Saturday, February 17, 1990 Page 2

MEASURED DEPTH Feet	B O R E - H O L E INCLINATION Degrees	D I R E C T I O N Degrees	COURSE LENGTH Feet	VERTICAL DEPTH Feet	SUB-SEA DEPTH Feet	R E C T A N G U L A R C O O R D I N A T E S Feet		VERTICAL SECTION Feet	C L O S U R E S DISTANCE Feet		DIRECTION Degrees	DOGLEG SEVERITY Deg/100ft.
2500.00	0.80	S 37.50 W	100.00	2499.94	2499.94	11.60	S 9.50 W	-6.26	14.99	S 39.31	W	0.05
2600.00	0.59	S 36.72 W	100.00	2599.93	2599.93	12.56	S 10.23 W	-6.81	16.20	S 39.15	W	0.21
2700.00	0.69	S 28.75 W	100.00	2699.92	2699.92	13.50	S 10.83 W	-7.39	17.31	S 38.73	W	0.13
2800.00	0.88	S 31.57 W	100.00	2799.91	2799.91	14.69	S 11.52 W	-8.15	18.67	S 38.11	W	0.19
2900.00	1.05	S 30.55 W	100.00	2899.90	2899.90	16.13	S 12.39 W	-9.07	20.34	S 37.53	W	0.17
3000.00	1.11	S 36.48 W	100.00	2999.88	2999.88	17.70	S 13.43 W	-10.02	22.22	S 37.19	W	0.13
3100.00	1.11	S 37.14 W	100.00	3099.86	3099.86	19.25	S 14.59 W	-10.91	24.15	S 37.16	W	0.01
3200.00	1.14	S 33.85 W	100.00	3199.84	3199.84	20.85	S 15.73 W	-11.84	26.12	S 37.03	W	0.07
3300.00	1.17	S 36.61 W	100.00	3299.82	3299.82	22.50	S 16.89 W	-12.81	28.13	S 36.90	W	0.06
3400.00	1.07	S 35.92 W	100.00	3399.80	3399.80	24.07	S 18.05 W	-13.72	30.09	S 36.86	W	0.10
3500.00	1.10	S 32.92 W	100.00	3499.79	3499.79	25.63	S 19.12 W	-14.66	31.98	S 36.72	W	0.06
3600.00	1.10	S 31.53 W	100.00	3599.77	3599.77	27.26	S 20.14 W	-15.67	33.89	S 36.46	W	0.03
3700.00	1.09	S 33.75 W	100.00	3699.75	3699.75	28.86	S 21.17 W	-16.66	35.79	S 36.26	W	0.04
3800.00	1.06	S 37.50 W	100.00	3799.73	3799.73	30.38	S 22.26 W	-17.55	37.67	S 36.23	W	0.08
3900.00	0.99	S 33.04 W	100.00	3899.72	3899.72	31.84	S 23.29 W	-18.41	39.45	S 36.18	W	0.11
4000.00	1.00	S 36.76 W	100.00	3999.70	3999.70	33.28	S 24.29 W	-19.26	41.20	S 36.13	W	0.07
4100.00	1.03	S 32.21 W	100.00	4099.69	4099.69	34.74	S 25.29 W	-20.13	42.97	S 36.06	W	0.09
4200.00	0.85	S 28.82 W	100.00	4199.67	4199.67	36.15	S 26.13 W	-21.04	44.60	S 35.86	W	0.19
4300.00	0.91	S 34.24 W	100.00	4299.66	4299.66	37.46	S 26.93 W	-21.86	46.13	S 35.71	W	0.10
4400.00	0.98	S 42.81 W	100.00	4399.65	4399.65	38.75	S 27.96 W	-22.57	47.78	S 35.81	W	0.16
4500.00	0.91	S 50.55 W	100.00	4499.63	4499.63	39.88	S 29.15 W	-23.06	49.40	S 36.17	W	0.15
4600.00	0.85	S 57.35 W	100.00	4599.62	4599.62	40.78	S 30.40 W	-23.33	50.86	S 36.70	W	0.12
4700.00	0.13	S 66.41 W	100.00	4699.62	4699.62	41.18	S 31.15 W	-23.36	51.64	S 37.10	W	0.72
4800.00	0.15	N 42.00 W	100.00	4799.62	4799.62	41.13	S 31.37 W	-23.22	51.73	S 37.33	W	0.16
4900.00	0.26	N 28.50 E	100.00	4899.62	4899.62	40.80	S 31.41 W	-22.90	51.49	S 37.59	W	0.25

COLUMBIA GAS DEVELOPMENT  
 KANE SPRING WELL NO. 27-1  
 GRAND COUNTY UTAH

RADIUS OF CURVATURE CALCULATIONS

Saturday, February 17, 1990 Page 3

MEASURED DEPTH Feet	B O R E - H O L E INCLINATION Degrees	D I R E C T I O N Degrees	COURSE LENGTH Feet	VERTICAL DEPTH Feet	SUB-SEA DEPTH Feet	R E C T A N G U L A R C O O R D I N A T E S Feet		VERTICAL SECTION Feet	C L O S U R E S DISTANCE Feet		DIRECTION Degrees	DOGLEG SEVERITY Deg/100ft.
5000.00	0.13	N 86.87 E	100.00	4999.61	4999.61	40.63 S	31.14 W	-22.87	51.19	S 37.47 W		0.22
5100.00	0.28	N 25.14 E	100.00	5099.61	5099.61	40.44 S	30.85 W	-22.82	50.86	S 37.35 W		0.25
5200.00	0.12	N 52.68 E	100.00	5199.61	5199.61	40.17 S	30.64 W	-22.67	50.52	S 37.33 W		0.18
5300.00	0.22	N 9.30 E	100.00	5299.61	5299.61	39.92 S	30.49 W	-22.51	50.23	S 37.37 W		0.16
5400.00	0.21	N 49.43 E	100.00	5399.61	5399.61	39.61 S	30.31 W	-22.31	49.87	S 37.43 W		0.15
5500.00	0.34	N 42.06 E	100.00	5499.61	5499.61	39.27 S	29.97 W	-22.16	49.40	S 37.35 W		0.13
5600.00	0.28	N 38.64 E	100.00	5599.61	5599.61	38.86 S	29.62 W	-21.94	48.86	S 37.31 W		0.06
5700.00	0.30	N 47.43 E	100.00	5699.61	5699.61	38.49 S	29.27 W	-21.76	48.36	S 37.25 W		0.05
5800.00	0.31	N 76.83 E	100.00	5799.61	5799.61	38.24 S	28.80 W	-21.74	47.87	S 36.99 W		0.16
5900.00	0.12	S 77.80 E	100.00	5899.61	5899.61	38.24 S	28.43 W	-21.90	47.65	S 36.63 W		0.21
6000.00	0.22	N 78.50 E	100.00	5999.61	5999.61	38.24 S	28.13 W	-22.04	47.47	S 36.34 W		0.12
6100.00	0.14	N 43.85 E	100.00	6099.61	6099.61	38.09 S	27.86 W	-22.02	47.19	S 36.19 W		0.13
6200.00	0.18	N 38.48 E	100.00	6199.61	6199.61	37.88 S	27.68 W	-21.91	46.91	S 36.16 W		0.04
6300.00	0.31	N 85.99 E	100.00	6299.60	6299.60	37.69 S	27.31 W	-21.90	46.54	S 35.93 W		0.23
6400.00	0.24	N 82.45 E	100.00	6399.60	6399.60	37.64 S	26.83 W	-22.06	46.22	S 35.49 W		0.07
COBB SURVEYS												
6732.00	0.40	S 16.00 E	332.00	6731.60	6731.60	38.57 S	25.41 W	-23.53	46.19	S 33.38 W		0.13
6773.00	0.50	S 32.00 W	41.00	6772.60	6772.60	38.88 S	25.45 W	-23.79	46.47	S 33.21 W		0.92
6805.00	1.50	N 25.00 W	32.00	6804.59	6804.59	38.85 S	25.91 W	-23.56	46.70	S 33.70 W		5.69
6836.00	5.20	N 27.00 W	31.00	6835.53	6835.53	37.22 S	26.70 W	-21.75	45.81	S 35.66 W		11.94
6868.00	10.60	N 34.00 W	32.00	6867.22	6867.22	33.44 S	28.93 W	-17.37	44.22	S 40.87 W		17.11
6899.00	16.30	N 38.00 W	31.00	6897.35	6897.35	27.61 S	33.17 W	-10.27	43.16	S 50.23 W		18.62
6930.00	21.00	N 38.00 W	31.00	6926.72	6926.72	19.80 S	39.27 W	-0.58	43.98	S 63.25 W		15.16
6961.00	25.20	N 37.90 W	31.00	6955.23	6955.23	10.21 S	46.75 W	11.32	47.85	S 77.68 W		13.55
6993.00	29.60	N 38.00 W	32.00	6983.63	6983.63	1.40 N	55.80 W	25.72	55.82	N 88.56 W		13.75

COLUMBIA GAS DEVELOPMENT  
 KANE SPRING WELL NO. 27-1  
 GRAND COUNTY UTAH

RADIUS OF CURVATURE CALCULATIONS

Saturday, February 17, 1990 Page 4

MEASURED DEPTH Feet	B O R E - H O L E INCLINATION Degrees	D I R E C T I O N Degrees	COURSE LENGTH Feet	VERTICAL DEPTH Feet	SUB-SEA DEPTH Feet	R E C T A N G U L A R C O O R D I N A T E S Feet		VERTICAL SECTION Feet	C L O S U R E S DISTANCE Feet		DIRECTION Degrees	DOGLEG SEVERITY Deg/100ft.
7025.00	35.20	N 35.00 W	32.00	7010.64	7010.64	15.18	N 66.00 W	42.57	67.72	N 77.05 W		18.20
7057.00	39.40	N 34.00 W	32.00	7036.09	7036.09	31.15	N 76.98 W	61.75	83.04	N 67.97 W		13.26
7093.00	39.70	N 28.00 W	36.00	7063.85	7063.85	50.79	N 88.78 W	84.57	102.28	N 60.22 W		10.64
7118.00	40.50	N 26.00 W	25.00	7082.97	7082.97	65.14	N 96.09 W	100.67	116.09	N 55.87 W		6.07
7150.00	40.10	N 27.00 W	32.00	7107.37	7107.37	83.66	N 105.32 W	121.37	134.51	N 51.54 W		2.38
7180.00	45.30	N 26.00 W	30.00	7129.41	7129.41	101.86	N 114.40 W	141.70	153.18	N 48.32 W		17.48
7212.00	49.80	N 26.00 W	32.00	7151.01	7151.01	123.08	N 124.75 W	165.31	175.24	N 45.39 W		14.06
7244.00	53.70	N 26.00 W	32.00	7170.81	7170.81	145.66	N 135.76 W	190.43	199.12	N 42.98 W		12.19
7275.00	57.00	N 26.00 W	31.00	7188.44	7188.44	168.58	N 146.94 W	215.93	223.63	N 41.08 W		10.65
7307.00	59.90	N 27.00 W	32.00	7205.18	7205.18	192.98	N 159.10 W	243.20	250.11	N 39.50 W		9.45
7337.00	62.60	N 29.00 W	30.00	7219.61	7219.61	216.20	N 171.45 W	269.48	275.93	N 38.41 W		10.73
7368.00	65.60	N 33.00 W	31.00	7233.15	7233.15	240.10	N 185.81 W	297.25	303.60	N 37.74 W		15.11
7400.00	69.50	N 38.00 W	32.00	7245.36	7245.36	264.16	N 202.97 W	326.41	333.14	N 37.54 W		18.89
7431.00	73.70	N 41.00 W	31.00	7255.15	7255.15	286.85	N 221.68 W	355.00	362.53	N 37.70 W		16.37
7462.00	79.10	N 45.00 W	31.00	7262.43	7262.43	308.88	N 242.22 W	383.80	392.52	N 38.10 W		21.46
7532.00	86.20	N 44.60 W	70.00	7271.38	7271.38	358.11	N 291.10 W	449.48	461.50	N 39.11 W		10.16
7564.00	87.80	N 44.30 W	32.00	7273.06	7273.06	380.92	N 313.48 W	479.79	493.32	N 39.45 W		5.09
7593.00	88.80	N 43.60 W	29.00	7273.92	7273.92	401.79	N 333.60 W	507.36	522.23	N 39.70 W		4.21
7626.00	89.60	N 33.70 W	33.00	7274.38	7274.38	427.52	N 354.18 W	539.52	555.18	N 39.64 W		30.09
7654.00	91.10	N 37.20 W	28.00	7274.21	7274.21	450.33	N 370.42 W	567.13	583.10	N 39.44 W		13.60
7687.00	92.40	N 36.90 W	33.00	7273.20	7273.20	476.65	N 390.29 W	599.51	616.06	N 39.31 W		4.04
7718.00	92.00	N 36.90 W	31.00	7272.01	7272.01	501.43	N 408.89 W	629.92	647.01	N 39.20 W		1.29
7749.00	91.90	N 36.50 W	31.00	7270.95	7270.95	526.27	N 427.41 W	660.37	677.96	N 39.08 W		1.33
7779.00	92.10	N 35.50 W	30.00	7269.91	7269.91	550.52	N 445.03 W	689.89	707.90	N 38.95 W		3.40
7808.00	91.90	N 35.10 W	29.00	7268.90	7268.90	574.18	N 461.78 W	718.50	736.83	N 38.81 W		1.54

COLUMBIA GAS DEVELOPMENT  
 KANE SPRING WELL NO. 27-1  
 GRAND COUNTY UTAH

RADIUS OF CURVATURE CALCULATIONS

Saturday, February 17, 1990 Page 5

MEASURED DEPTH Feet	B O R E - H O L E INCLINATION Degrees	D I R E C T I O N Degrees	COURSE LENGTH Feet	VERTICAL DEPTH Feet	SUB-SEA DEPTH Feet	R E C T A N G U L A R C O O R D I N A T E S Feet		VERTICAL SECTION Feet	C L O S U R E S DISTANCE Feet		DIRECTION Degrees	DOGLEG SEVERITY Deg/100ft.
7839.00	91.80	N 34.10 W	31.00	7267.90	7267.90	599.68	N 479.37 W	749.13	767.73	N 38.64	W	3.24
7871.00	91.80	N 33.40 W	32.00	7266.89	7266.89	626.27	N 497.14 W	780.82	799.60	N 38.44	W	2.19
7902.00	91.50	N 32.20 W	31.00	7266.00	7266.00	652.32	N 513.93 W	811.59	830.45	N 38.23	W	3.99
7935.00	94.50	N 31.60 W	33.00	7264.27	7264.27	680.29	N 531.34 W	844.37	863.20	N 37.99	W	9.27
7967.00	93.50	N 29.90 W	32.00	7262.04	7262.04	707.73	N 547.66 W	876.18	894.88	N 37.73	W	6.15
7996.00	93.60	N 29.10 W	29.00	7260.24	7260.24	732.92	N 561.91 W	905.07	923.53	N 37.48	W	2.77
8027.00	93.00	N 28.80 W	31.00	7258.46	7258.46	760.00	N 576.89 W	935.98	954.15	N 37.20	W	2.16
8058.00	93.20	N 28.80 W	31.00	7256.78	7256.78	787.12	N 591.80 W	966.89	984.78	N 36.94	W	0.65
8070.00	93.40	N 28.40 W	12.00	7256.09	7256.09	797.64	N 597.54 W	978.86	996.64	N 36.84	W	3.72
8121.00	93.60	N 28.40 W	51.00	7252.98	7252.98	842.42	N 621.75 W	1029.72	1047.02	N 36.43	W	0.39
8152.00	93.30	N 28.10 W	31.00	7251.11	7251.11	869.68	N 636.40 W	1060.64	1077.66	N 36.20	W	1.37
PROJECTED 8244.00	93.20	N 28.10 W	92.00	7245.90	7245.90	950.70	N 679.66 W	1152.43	1168.66	N 35.56	W	0.11

Final Station Closure - Distance: 1168.66 Feet  
 - Direction: N 35.56 W

RECEIVED

APR 15 1991

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
3 TRIAD CENTER, SUITE 350  
SALT LAKE CITY, UT 84180-1203

DIVISION OF  
OIL GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

*Conf. dil*

Well Name & Number KANE SPRING FEDERAL #27-1 43-019-31210

Operator COLUMBIA GAS DEVELOPMENT CORP. Address P.O. BOX 1350 HOU., TX. 77251-1350

Contractor VECO DRILLING CO. Address \_\_\_\_\_

Location NW 1/4 SE 1/4 Sec. 27 T. 25S R. 19E County Grand

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	2100'	2140' ±	1' 40 bph - died out	19500 ppm - Salty
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

RECEIVED

APR 15 1991

DIVISION OF OIL GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
3 TRIAD CENTER, SUITE 350  
SALT LAKE CITY, UT 84180-1203

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number KANE SPRING FEDERAL #27-1

Operator COLUMBIA GAS DEVELOPMENT CORP. Address P.O. BOX 1350 HOU., TX. 77251-1350

Contractor VECO DRILLING CO. Address \_\_\_\_\_

Location NW 1/4 SE 1/4 Sec. 27 T. 25S R. 19E County Grand

Water Sands

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1.	2100'	2140' ±	1' 40 bph - died out	19500 ppm - Salty
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

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 Corp. 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 1700 FEL & 1650 FSL  
At top prod. interval reported below 1989.31 FSL & 1072.52 FEL  
At total depth 2600 FSL & 2380 FEL

14. PERMIT NO. 43-019-31310 DATE ISSUED 12/12/90

15. DATE SPUDDED 12/28/90 16. DATE T.D. REACHED 3/15/91 17. DATE COMPL. (Ready to prod.) 4/8/91

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* Ground 5763

20. TOTAL DEPTH, MD & TVD 8244 MD/7248 TVD 21. PLUG, BACK T.D., MD & TVD 8240 MD/7248 TVD 22. IF MULTIPLE COMPL., HOW MANY\* NA 23. INTERVALS DRILLED BY → XX

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
F: 7510MD/7269 T: 8244MD/7248

26. TYPE ELECTRIC AND OTHER LOGS RUN 2-9-91  
ESS/DIL/CBL, DUAL PROPAGATION RESISTIVITY GAMMA

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20" H-40	94#	618'	24"	615 sx. to Sfc.	none
13 3/8" K-55	61#	4585'	17 1/2"	900 lite + 415 Cl-B	none
9 5/8" S-95	53.5#	7510'	12 1/4"	1400 sx. Cl-G	none

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
5 1/2" S-95	7438'	8240	none	na	2 7/8	6700	6700

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7510'-8244'	Perforated tubing one hole per 3'

33.\* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/6-4/7/91	24	10/64	→	914	290	0	317

FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
3460	0	→	914	290	0	43

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Gas Flared - Oil Sold to Amoco TEST WITNESSED BY Herman Middlebrook

35. LIST OF ATTACHMENTS Logs (requesting confidentiality) Directional Survey and Core Analysis

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED Alan G. Reese TITLE Regulatory Clerk DATE 4/10/91

CONFIDENTIAL

5. LEASE DESIGNATION AND SERIAL NO. UTU-5971  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA  
7. UNIT AGREEMENT NAME KANE SPRINGS FEDERAL  
8. FARM OR LEASE NAME UNIT KANE SPRINGS FEDERAL  
10. FIELD AND POOL, OR WILDCAT WILDCAT  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC. 27-T25S-R19E  
12. COUNTY OR PARISH GRAND 13. STATE UTAH

\* (will be submitted under separate cover)

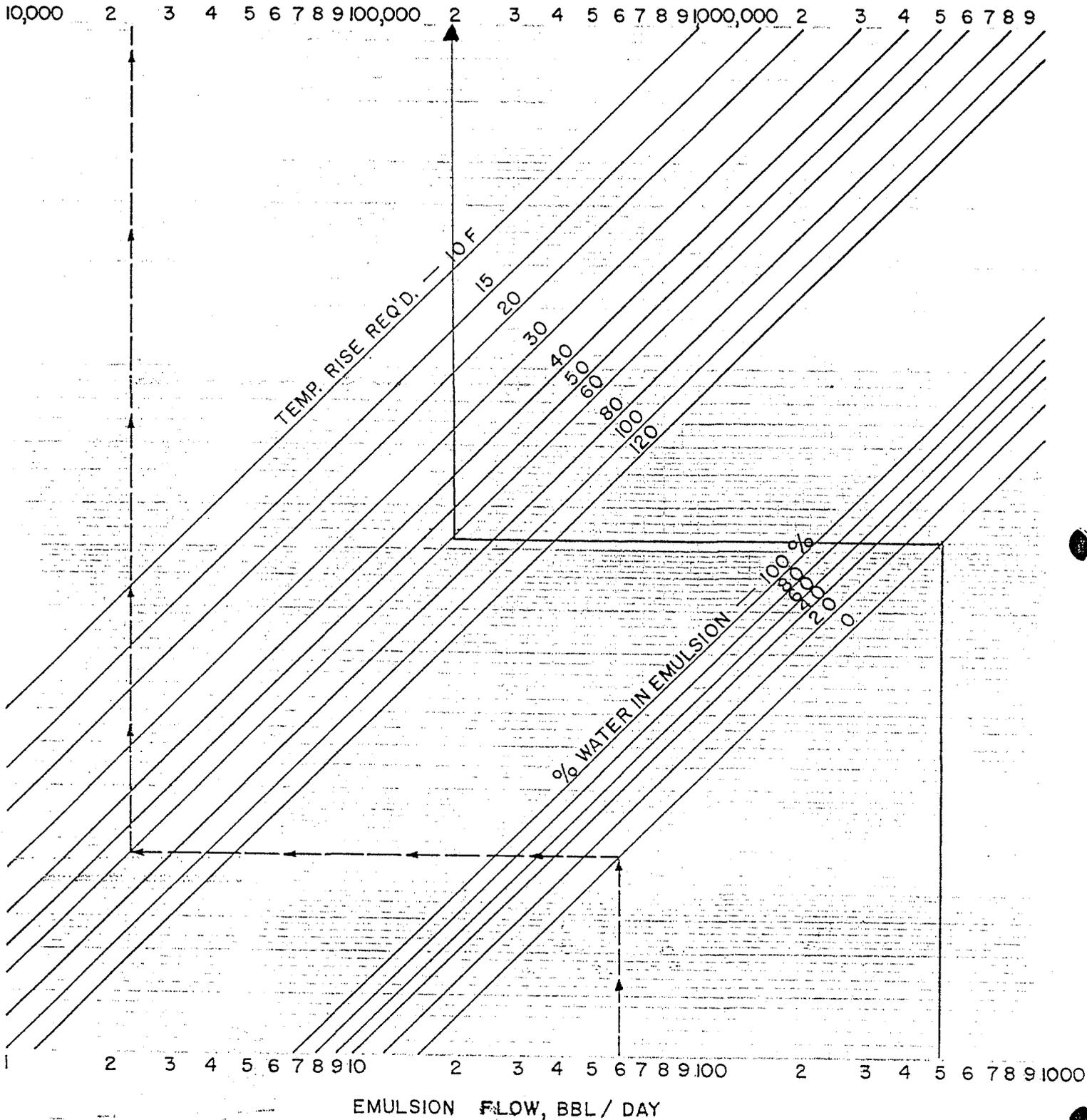
\*(See Instructions and Spaces for Additional Data on Reverse Side)



# HEAT REQUIRED FOR OIL-WATER EMULSIONS

FOR TREATER, DIRECT HEATER, INDIRECT HEATER, OR VJ HEATER SIZING

HEAT REQUIRED, BTU / HR.



NOTE: FOR CAPACITIES LARGER THAN THE CHART RANGE, DIVIDE THE RATE BY 10, USE THIS ON THE CHART, THEN MULTIPLY THE HEAT REQUIRED BY 10 TO FIND THE CORRECT HEAT REQUIRED

**COLUMBIA GAS**  
Development



April 16, 1991

**RECEIVED**

APR 17 1991

DIVISION OF  
OIL GAS & MINING

VIA AIRBORNE EXPRESS

STATE OF UTAH - DEPT. OF NATURAL RESOURCES  
OIL & GAS DIVISION  
3 Triad Center, Ste. #350  
355 West North Temple  
Salt Lake City, Utah 84180-1203

Attention: Mr. Firth

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION**  
**KANE SPRINGS FEDERAL #27-1**  
**SEC.27-T25S-R19E**  
**GRAND COUNTY, UTAH**  
**API NO. 43-019-31310**

Dear Mr. Firth:

Columbia Gas Development Corporation (CGDC) recently completed the Kane Springs Federal #27-1, SE/4 - NW/4 of Sec.27-T25S-R19E Grand County, Utah as a producing Wildcat/Exploratory well. The attached completion report shows the production rate over a twenty-four (24) hour period on a 10/64" choke to be 914 BO per day and 290 MCF per day of associated gas at 3490 psi flowing tubing pressure. There was no measurable produced water. The Gas/Oil Ratio (GOR) is 317.

<sup>615-3-20</sup>  
Pursuant to Rule ~~NPL-4A~~; Gas Flaring or Venting, CGDC respectfully requests your consideration and administrative approval to vent gas, for a period of one year, in excess of the 1800 mcf per month allowed after the initial 30 days of production.

Negotiations are currently underway with a potential Gas Transporter with respect to future gas gathering systems points. Based on information provided by the potential Gas Transporter, sales into a gas pipeline is not likely to occur for at least six (6) months. Approximately 11 miles of pipeline will need to be constructed at an approximate cost of 1.5 million dollars. Given the exploratory/wildcat nature of this well, an expenditure of this magnitude cannot be justified until additional drilling confirms the extent of the discovery.

CGDC anticipates daily gas production of about 160 MCF/day which corresponds to a desired oil production rate of 500 BO/day. It is evident that after the initial 30 days of production the gas

rate will exceed the maximum volume allowed to be vented/flared by 100 MCF/day.

Approximately 4 MCF/day is being used on the lease for fuel at the heater treater. Heat required to heat 500 BOPD by 60°F is 190,000 BTU/hr. - Gas BTU content (wet) is 1184 BTU/SCF @ 14.73 psia & 60° Therefore, 190,000 BTU/hr. X 24 hrs. X 1 SCF/1184 BTU = 3851 scf/d or 4 MCF/day. Future possible trace systems would use 8 MCF/day.

The following is a six (6) month case:

<u>Month</u>	<u>Unrestricted Flow</u>		<u>Restricted Flow</u>	
	<u>BOPD</u>	<u>MCF/D</u>	<u>BOPD</u>	<u>MCF/D</u>
1	650	200	650	200
2	650	200	194	60
3	650	200	194	60
4	650	200	194	60
5	650	200	194	60
6	<u>650</u>	<u>200</u>	<u>194</u>	<u>60</u>
<b>Totals:</b>	118950 BO	36600 MCF	49410 BO	15250 MCF

**Difference:** 65940 BO 21350 MCF

If flaring is limited during the time anticipated for pipeline hook-up (six months) the subject well's oil production will be reduced by approx. 65940 bbls. of Oil, while gas production will be reduced by 21 MMSCF.

CGDC is currently applying for the necessary permits from the State and the Bureau of Land Management to drill a second well, referred to by the BLM as the "confirming well", in Sec.19-T26S-R20E, Grand County, Utah, approx. 3 miles to the SE of the subject well. CGDC is also in the process of preparing a "Reasonable & Forseeable Plan of Development" to submit to the Grand Resource District Ofc. of the BLM. The Plan outlines CGDC's proposed future sites for approx. 12 additional wells to be drilled in the area over the next five years.

Reserves for the subject well are estimated at 280,000 STB and 88 MMCF with a probable producing life of 10-15 years.

Reinjection of gas is not possible with a single producing well and would require several successful well completions in the immediate area before becoming a viable alternative.

Columbia Gas Development Corporation, therefore respectfully

requests the consideration and administrative approval to vent gas from the Kane Springs Federal #27-1 in excess of the 60 MCF/day rate pursuant to ~~NPL-4A~~. *R615-3-20.*

Should 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  
Regulatory

AAR  
Encl.

CC: Bureau of Land Management - Moab District  
Mr. Dale Manchester

Pruitt, Gushee & Bachtell  
Mr. Bob Pruitt



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

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

3160  
(U-65971)  
(U-065)

MAY 9 1991

Aline A. Reese, Regulatory Coordinator  
Columbia Gas Development Corporation  
One Riverway  
P. O. Box 1350  
Houston, Texas 77251-1350

Reference: NTL-4A Authorization  
Kane Springs Federal No. 27-1 well  
Federal Lease U-65971  
Sec. 27, T. 25 S., R. 19 E.  
Grand County, Utah

Dear Ms. Reese:

We are in receipt of your April 16, 1991 correspondence wherein you provide rationale and justification to temporarily flare or vent gas from the referenced well. We appreciate your diligent efforts to provide this office the necessary information regarding the appropriate flaring or venting approvals. After review of your rationale, the Bureau of Land Management (BLM) hereby approves your request to temporarily flare gas according the following conditions:

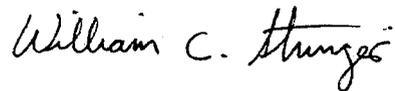
1. Columbia Gas Development Corporation (CGDC) is approved to flare gas (unrestricted) for six months starting with the first production date. Flaring beyond the six month deadline is not covered under this permit. If CGDC perceives that a gas sales contract will not be negotiated by the six month deadline, a new flaring/venting permit according to NTL-4A shall be requested prior to the expiration of this permit. At that time, the BLM will require gas rates to be curtailed to less than 100 MCFPD.
2. All gas produced shall be measured according to measurement standards within 43 CFR Part 3160, Onshore Oil and Gas Order No. 5.
3. All gas not being used on lease shall be flared.

4. All volumes flared shall be reported to this office under Form 3160-5 on a monthly basis (in addition to the 3160's being reported to Minerals Management Service).

5. BLM shall be kept apprised of negotiations between CGDC and gas pipeline companies leading to gas sales.

If you have any questions regarding the conditions of approval for this permit, contact Dale Manchester in the Moab District Office at (801) 259-6111.

Sincerely yours,



Assistant District Manager  
Mineral Resources

cc:

U-068, Grand Resource Area Office  
U-922, BLM, Utah State Office  
Department of Oil Gas and Mining  
Attn: Frank Mathews, Petroleum Engineer  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

RECEIVED

MAY 13 1991

DIVISION OF  
OIL GAS & MINING

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

3160  
(U-65971)  
(U-065)

MAY 9 1991

Aline A. Reese, Regulatory Coordinator  
Columbia Gas Development Corporation  
One Riverway  
P. O. Box 1350  
Houston, Texas 77261-1350

Reference: HTL-4A Authorization  
Kane Springs Federal No. 27-1 well  
Federal Lease U-65971  
Sec. 27, T. 25 S., R. 19 E.  
Grand County, Utah

43-019-31310

Dear Ms. Reese:

We are in receipt of your April 16, 1991 correspondence wherein you provide rationale and justification to temporarily flare or vent gas from the referenced well. We appreciate your diligent efforts to provide this office the necessary information regarding the appropriate flaring or venting approvals. After review of your rationale, the Bureau of Land Management (BLM) hereby approves your request to temporarily flare gas according the following conditions:

1. Columbia Gas Development Corporation (CGDC) is approved to flare gas (unrestricted) for six months starting with the first production date. Flaring beyond the six month deadline is not covered under this permit. If CGDC perceives that a gas sales contract will not be negotiated by the six month deadline, a new flaring/venting permit according to HTL-4A shall be requested prior to the expiration of this permit. At that time, the BLM will require gas rates to be curtailed to less than 100 MCFPD.
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MAY

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5. DLI shall be kept apprised of negotiations between COOC and gas pipeline companies leading to gas sales.

If you have any questions regarding the conditions of approval for this permit, contact Dale Manchester in the Hoop District Office at (801) 259-6111.

Sincerely yours,

**/S/ WILLIAM C. STRINGER**

Assistant District Manager  
Mineral Resources

cc:

U-069, Grand Resource Area Office  
U-922, BLM, Utah State Office  
Department of Oil Gas and Mining ✓  
Attn: Frank Mathews, Petroleum Engineer  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84160

bcc:

U-061, Wang System Maintenance, Freudiger (Delete)

DManchester:caf:5/8/91 Wang 2998f



May 15, 1991

**RECEIVED**

**MAY 20 1991**

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

**DIVISION OF  
OIL GAS & MINING**

Attention: Mr. R. J. Firth

Reference: **COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRINGS FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH**

Dear Mr. Firth:

Please find enclosed a copy of the NTL-4A Authorization to flare for a period of six months issued by the Bureau of Land Management regarding the above referenced location as you had requested.

I have also faxed a copy of the correspondence to Mr. Bob Pruitt for his records.

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**

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

Aline A. Reese  
Regulatory Clerk

AAR  
Encl.



# 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

May 23, 1991

Aline A. Reese, Regulatory Coordinator  
Columbia Gas Development Corporation  
One Riverway  
P.O. Box 1350  
Houston, Texas 77251-1350

Dear Ms. Reese:

Re: Administrative Approval - Gas Flaring or Venting, Kane Springs Federal No. 27-1 Well,  
Sec. 27, T. 25S, R. 19E, Grand County, Utah

Pursuant to Utah Admin. R. 615-3-20-3, Columbia Gas Development Corporation 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 April 16, 1991.

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. 615-3-20-5. Columbia Gas Development Corporation filed a petition on May 10, 1991, requesting an exception to Utah Admin. R. 615-3-20 for authorization by the Board for additional flaring. This matter is scheduled for hearing on June 27, 1991.

If you have any questions regarding this administrative approval, contact R.J. Firth at (801)538-5340.

Best regards,

Dianne R. Nielson  
Director

ldc  
cc: R.J. Firth  
Well file  
WOI22



July 8, 1991

RECEIVED

JUL 09 1991

DIVISION OF  
OIL GAS & MINING

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

Attention: Ms. Vickey Carney

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRINGS FEDERAL #27-1  
SEC.27-T25S-R19E  
GRAND COUNTY, UTAH  
API NO. 43-019-31310

CONFIDENTIAL

Dear Ms. Carney:

Please find enclosed Columbia's Logs run at the above referenced location. Columbia Gas Development Corporation respectfully requests that the information being submitted be kept confidential for the maximum amount of time available.

The standard permeability & porosity analysis have not been done on the cores for this well.

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

Aline A. Reese  
Regulatory Clerk

DUAL INDUCTION LOG  
ACOUSTIC CEMENT BOND LOG  
LONG SPACED SONIC LOG  
DUAL PROPAGATION RESISTIVITY GAMMA  
PLUS DIRECTIONAL

AAR  
Encl.



**CONFIDENTIAL**

July 19, 1991

VIA AIRBORNE EXPRESS

BUREAU OF LAND MANAGEMENT  
MOAB DISTRICT OFFICE  
82 E. DOGWOOD  
MOAB, UTAH 84532

Attention: Mr. Dale Manchester

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRINGS FEDERAL #27-1  
SEC.28-T25S-R19E  
GRAND COUNTY, UTAH

Dear Mr. Manchester:

Please find enclosed Columbia's Sundry Notice, in triplicate, regarding the "on line" status of the above referenced well.

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

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION

Aline A. Reese  
Regulatory Clerk

**RECEIVED**

**JUL 22 1991**

**DIVISION OF  
OIL GAS & MINING**

AAR  
Encl.

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

BUREAU OF LAND MANAGEMENT

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 (horizontal) <input type="checkbox"/>		7. UNIT AGREEMENT NAME Kane Springs Fed. Unit	
2. NAME OF OPERATOR Columbia Gas Development Corp. 713/871-3400		8. FARM OR LEASE NAME Kane Springs Federal	
3. ADDRESS OF OPERATOR P. O. Box 1350 Hou., TX. 77251-1350		9. WELL NO. #27-1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface  1700' FEL & 1650' FSL of Sec.27-T25S-R19E		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO. 43-019-31310		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec.27-T25S-R19E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Ground 5763		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

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) Well Status

(Other)

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

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

The Kane Springs Federal #27-1 well was brought on line on 7/18/91.

RECEIVED

JUL 22 1991

DIVISION OF OIL GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED Aline A. Reese TITLE Regulatory Clerk DATE 7/19/91  
Aline A. Reese  
(This space for Federal or State office use)

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

\*See Instructions on Reverse Side

**RECEIVED**

NOV 13 1991

November 12, 1991

VIA AIRBORNE EXPRESSDIVISION OF  
OIL GAS & MININGSTATE OF UTAH OFC. OF NATURAL RESOURCES  
OIL, GAS & MINING  
355 W. NORTH TEMPLE, 3 TRIAD CENTER, STE.#350  
SALT LAKE CITY, UTAH 84180-1203

Attention: Mr. R. J. Firth

Reference: COLUMBIA GAS DEVELOPMENT CORPORATION  
KANE SPRINGS FEDERAL #27-1  
SEC. 27-T25S-R19E 43-019-31310  
GRAND CO., UTAH  
R615-3-20 EXTENSION

Dear Mr. Firth:

Pursuant to Rule R615-3-20; Gas Flaring or Venting; Columbia Gas Development Corporation (CGDC) respectfully requests your consideration and administrative approval to grant an additional six months of unrestricted flaring.

The current production on the well is 450 BOPD and 385 MCFPD with a flowing tubing pressure of 1800 psi on a 9/64 choke. Through the month of October the well has produced 75,532 BO and 67,113 MCF of gas. There are no measurable amounts of produced water. The current Gas/Oil ratio (GOR) is 832.

Approximately 3 MCFD is being used on the lease for fuel at the heater treater. The Heater rate required to heat 400 BOPD by 60 degrees is 150,000 BTU/H - Gas BTU content (wet) is 1184 BTU/SCF @ 14.73 psia & 60 degrees. Therefore, 150,000 BTU/HR. X 24 hrs. X 1 SCF/1184 BTU = 3041 SCF/Day or 3 MCFD. The line heater and trace systems use approx. 8 MCFD.

The expected total production through December 12, 1991, when the current flaring permit expires is 94,000 BO and 78,000 MCF of gas.

Future production for the six months after December 12th, 1991 is as follows:

	<u>Unrestricted flow</u>		<u>Restricted flow</u>	
<u>Month</u>	<u>BOPD</u>	<u>MCFD</u>	<u>BOPD</u>	<u>MCFD</u>
1	395	329	72	60
2	380	316	72	60
3	345	287	72	60

4	320	266	72	60
5	295	245	72	60
6	<u>275</u>	<u>229</u>	<u>72</u>	<u>60</u>

Totals: 60,300 BO 50,200 MCF 12,960 BO 10,800 MCF

Difference: 47,340 BO 39,400 MCF

If Flaring is limited the subject well's oil production will be reduced by approx. 47,340 BO, wile gas production will be reduced by 39,400 MCF.

CGDC is currently completing the Kane Springs Federal #19-1A located in Sec.19-T26S-R20E, Grand Co., Utah. The well is expected to be tested soon. The Kane Springs Federal #28-1 spudded in November 1, 1991 is currently drilling in Sec.28-T25S-R19E, Grand Co., Utah.

Reserves for the subject well are estimated at 475,000 STB and 337 MCF with a probable producing life of twenty (20) years.

Reinjection of gas is not possible with a single producing well and would require several successful well completions in the immediate area before becoming a viable alternative.

An application for a pipeline "Right of Way" has been submitted by Western Gas Processors, Inc. and is currently under BLM consideration. According to the application Western estimates 60 workdays for construction activities which would take place between October 1 and March 30th. Construction activities would commence after permit approval and final engineering design.

Columbia Gas Development Corporation, therefore respectfully requests the consideration and approval to continue venting gas from the Kane Springs Federal #27-1 in excess of the 60 MCF/day rate pursuant to NTL-4A.

Sincerely,

COLUMBIA GAS DEVELOPMENT CORPORATION



Aline A. Reese  
Regulatory Clerk

AAR



November 15, 1991

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

Attention: Mr. Fred Oneyear

Reference: **KANE SPRINGS FEDERAL #27-1**  
**SEC.27-T25S-R19E**  
**GRAND COUNTY, UTAH**

**RECEIVED**

**NOV 20 1991**

**DIVISION OF**  
**OIL GAS & MINING**

Dear Mr. Oneyear:

Please find enclosed an original and two copies of the Sundry Notice regarding an addition to the facility layout at the above referenced location.

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  
Enclosures

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposed drilling 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 Federal Unit

8. FARM OR LEASE NAME

Kane Springs Federal

9. WELL NO.

#27-1

10. FIELD AND POOL, OR WILDCAT

Bartlett Flat Field

11. SEC., T., R., M., OR B.L.E. AND SURVEY OR AREA

Sec.27-T25S-R19E

12. COUNTY OR PARISH 13. STATE

Grand 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

1700' FEL & 1650' FSL of Sec.27-T25S-R19E

14. PERMIT NO.

43-019-31310

15. ELEVATIONS (Show whether DT, RT, GA, etc.)

Ground 5763

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANE

(Other) Facility Diagram update

(Other)

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

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

Attached is a copy of the revised facility diagram for the captioned location. An additional line heater has been installed. There was no new surface impact.

**RECEIVED**

NOV 20 1991

DIVISION OF  
OIL GAS & MINING

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

SIGNED

*Aline A. Reese*  
Aline A. Reese

TITLE

Regulatory Clerk

DATE

11/15/91

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

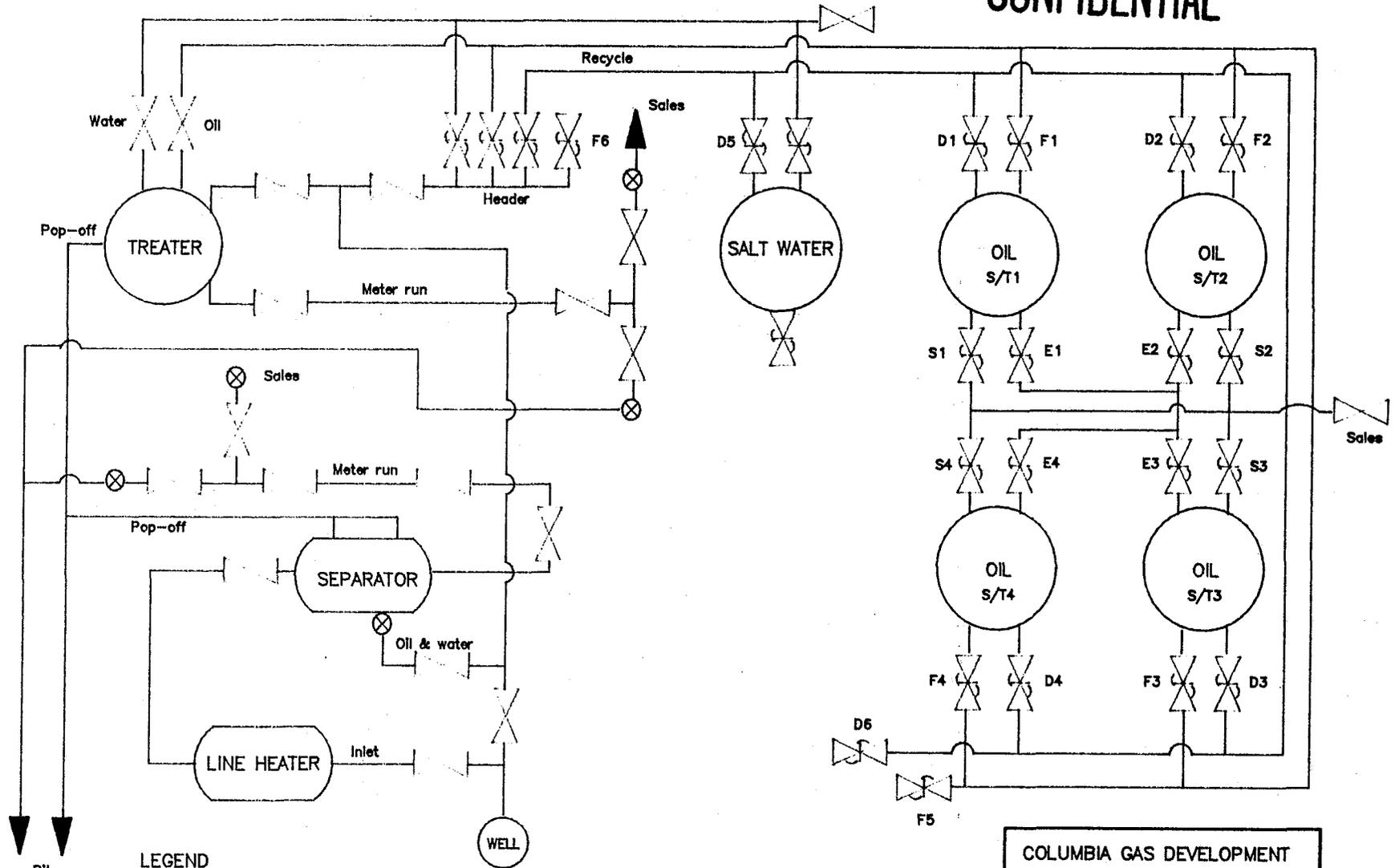
CONDITIONS OF APPROVAL, IF ANY:

\*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.

SITE SECURITY DIAGRAM

**CONFIDENTIAL**



LEGEND

-  Sealable valve
-  Sealed valve
-  Back pressure valve

COLUMBIA GAS DEVELOPMENT  
 KANE SPRINGS FEDERAL 27-1  
 NW/4, SE/4, S27-T25S-R19E  
 U-65971  
 GRAND COUNTY, UTAH

RECEIVED

JAN 03 1992

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
3 TRIAD CENTER, SUITE 350  
SALT LAKE CITY, UT 84180-1203

DIVISION OF  
OIL GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

43-019-31310

Well Name & Number Kane Springs Federal #27-1

Operator Columbia Gas Development Address P.O.Box 1350, Houston, TX 77251

Contractor Grace Drilling Company Address P.O.Box 51716, Lafayette, LA 70503

Location NW 1/4 SE 1/4 Sec. 27 T. 25S R. 19E County Grand

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	2137	- 4600	30 Bbl/Hour	Salty - 17,500 PPM
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.

(b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

DATE 03/24/92

PRODUCTION INQUIRY SCREEN

MENU: OPTION 00

TWNSHP RANGE SC SPOT MD. API ZONE STATUS

25.0 S 19.0 E 27 NWSE S 43-019-31310 CNCR POW

OPERATOR: N5035 : COLUMBIA GAS DEVELOPMENT

WELL NAME: KANE SPRINGS FED. 27-1

ENTITY: 11180 : KANE SPRINGS UNIT

ACCT	ENTY	DAYS	OIL PROD	GAS PROD	WATER PROD	PERIOD
CUM THRU 12/31/90			0.00	0.00	0.00	
N5035	11180	4	2282.00	735.00	0.00	91-04
N5035	11180	17	12583.00	9427.00	0.00	91-05
N5035	11180	13	8812.00	6658.00	0.00	91-06
N5035	11180	14	6717.00	7244.00	0.00	91-07
N5035	11180	31	16154.00	17247.00	0.00	91-08
N5035	11180	30	14999.00	14612.00	0.00	91-09
N5035	11180	31	13727.00	11870.00	0.00	91-10
N5035	11180	30	10583.00	10775.00	0.00	91-11
N5035	11180	31	10707.00	11074.00	0.00	91-12
YTD			96,564	89,642	0	

OPT: 13 API: 4301931310 ZONE: CNCR PERIOD(YMM): 9100 ENTY: 0 ACCT:

03/24/92

DISPOSITION INQUIRY SCREEN

MENU: OPTION 00

ENTITY: 11180 : KANE SPRINGS UNIT

OPERATOR: N5035 : COLUMBIA GAS DEVELOPMENT

MNTH	ACCT	PRODUCT	PRODUCED	TRANSPORT	USED ON LSE	FLARED	OTHER
9100		GS	NO DATA FOUND				
9100		OL	NO DATA FOUND				
9100		NL	NO DATA FOUND				
9101		GS	NO DATA FOUND				
9101		OL	NO DATA FOUND				
9101		NL	NO DATA FOUND				
9102		GS	NO DATA FOUND				
9102		OL	NO DATA FOUND				
9102		NL	NO DATA FOUND				
9103		GS	NO DATA FOUND				
9103		OL	NO DATA FOUND				
9103		NL	NO DATA FOUND				
9104	N5035	GS	735	0	0	735	0
	N5035	OL	2,282	2,282	0	0	0
	N5035	NL	0	0	0	0	0
9105	N5035	GS	9,427	0	113	9,314	0
	N5035	OL	12,583	11,171	0	0	0
	N5035	NL	0	0	0	0	0

OPT: 18 API: 4301931310 ZONE: CNCR PERIOD(YYMM): 9106 ENTY: 11180 ACCT:

03/24/92

DISPOSITION INQUIRY SCREEN

MENU: OPTION 00

ENTITY: 11180 : KANE SPRINGS UNIT  
OPERATOR: N5035 : COLUMBIA GAS DEVELOPMENT

MNTH	ACCT	PRODUCT	PRODUCED	TRANSPORT	USED ON LSE	FLARED	OTHER
9106	N5035	GS	6,658	0	79	6,579	0
	N5035	OL	8,812	10,199	0	0	0
	N5035	NL	0	0	0	0	0
9107	N5035	GS	7,244	0	200	7,044	0
	N5035	OL	6,717	5,741	0	0	0
	N5035	NL	0	0	0	0	0
9108	N5035	GS	17,247	0	455	16,792	0
	N5035	OL	16,154	16,225	0	0	0
	N5035	NL	0	0	0	0	0
9109	N5035	GS	14,612	0	435	14,177	0
	N5035	OL	14,999	15,189	0	0	0
	N5035	NL	0	0	0	0	0
9110	N5035	GS	11,870	0	434	11,436	0
	N5035	OL	13,727	13,808	0	0	0
	N5035	NL	0	0	0	0	0
9111	N5035	GS	11,003	0	395	10,608	0
	N5035	OL	11,643	11,602	0	0	0
	N5035	NL	0	0	0	0	0

OPT: 18 API: 4301931310 ZONE: CNCR PERIOD(Yymm): 9112 ENTY: 11180 ACCT:

03/24/92

DISPOSITION INQUIRY SCREEN

MENU: OPTION 00

ENTITY: 11180 : KANE SPRINGS UNIT

OPERATOR: N5035 : COLUMBIA GAS DEVELOPMENT

MNTH	ACCT	PRODUCT	PRODUCED	TRANSPORT	USED ON LSE	FLARED	OTHER
9112	N5035	GS	20,837	0	814	20,023	0
	N5035	OL	21,569	21,036	0	0	0
	N5035	NL	0	0	0	0	0

9201 GS NO DATA FOUND  
 9201 OL NO DATA FOUND  
 9201 NL NO DATA FOUND  
 9202 GS NO DATA FOUND  
 9202 OL NO DATA FOUND  
 9202 NL NO DATA FOUND  
 9203 GS NO DATA FOUND  
 9203 OL NO DATA FOUND  
 9203 NL NO DATA FOUND  
 9204 GS NO DATA FOUND  
 9204 OL NO DATA FOUND  
 9204 NL NO DATA FOUND  
 9205 GS NO DATA FOUND  
 9205 OL NO DATA FOUND  
 9205 NL NO DATA FOUND

OPT: 18 API: 4301931310 ZONE: CNCR PERIOD(YMM): 9206 ENTY: 11180 ACCT:

OPERATOR COLUMBIA GAS DEVELOPMENT

OPERATOR ACCT. NO. N 5035

ENTITY ACTION FORM - FORM 6

ADDRESS \_\_\_\_\_

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	11180	11180	43-019-31310	KANE SPRINGS FED. 27-1	NWSE	27	25S	19E	GRAND	12-28-90	1-18-91
WELL 1 COMMENTS: KANE SPRINGS UNIT/CANE CREEK PA "A"											
	11180	11353	43-019-31324	KANE SPRINGS FED. #19-1A	SWNE	19	26S	20E	GRAND	7-04-91	11-12-91
WELL 2 COMMENTS: KANE SPRINGS UNIT/NON PA											
D	11180	11354	43-019-31325	KANE SPRINGS FED. #28-1	NWSE	28	25S	19E	GRAND	10-27-91	11-4-91
WELL 3 COMMENTS: KANE SPRINGS UNIT/NON PA											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- 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)

L. ROMERO (DOGM)  
Signature  
ADMIN. ANALYST 3-24-92  
Title Date  
Phone No. ( )

NOTE: Use COMMENT section to explain why each Action Code was selected.

**COLUMBIA GAS**

Development



RECEIVED

NOV 19 1992

DIVISION OF  
OIL GAS & MINING

November 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 #27-1  
Sec.27-T25S-R19E  
Grand County, Utah

Gentlemen:

Please find attached a Sundry Notice for the above-referenced well as written follow-up to the spill reported to you by phone yesterday.

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 65971

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

**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)

1700' FEL & 1650' FSL of Sec.27-T25S-R19E

Kane Springs Federal U

8. Well Name and No.

Kane Springs Fed.27-1

9. API Well No.

43-019-31310

10. Field and Pool, or Exploratory Area

Bartlett Flat

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 Spill 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.)\*

Date of Spill: 11/15/92  
Cause: Ruptured gasket on load line connection while loading crude.  
Area Affected: 6' X 20' area inside fence, 15' X 20' area outside fence.  
Action Taken: Clean-up crew onsite at 7:00 AM 11/16/92. Clean-up completed. Waste taken to Roosevelt Disposal Facility.  
Amount Spilled: Approximately 1 Bbl crude oil

Verbal Report made to Eric Jones (BLM), and Frank Matthews (State of Utah) on 11/16/92, approx. 3:45 PM CST.

**RECEIVED**

NOV 19 1992

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

Signed Wendy H. Sedgwick

Title Regulatory Coordinator   **DIVISION OF OIL GAS & MINING**   Date 11/17/92

(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



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:

*43-019-31310*  
*Sec 27, T25S, R19E*

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

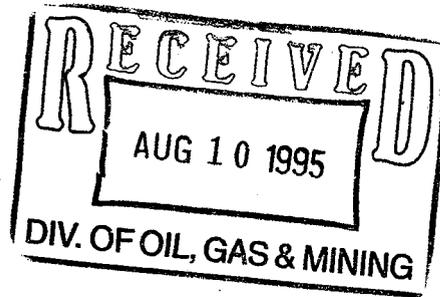
cc: UT-068, Grand Resource Area  
UT-922, Utah State Office  
Mr. R. J. Firth ✓  
State of Utah  
Division of Oil, Gas and Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

**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 42-019-31210

*Sec 27, T25S, R19E*

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.

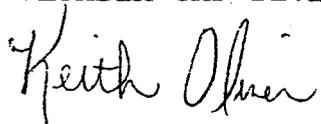
During the period of the one year extension, CGDC does not anticipate drilling any additional wells or attempting any redrilling or recompletion of the non-producing wells within the Unit.

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

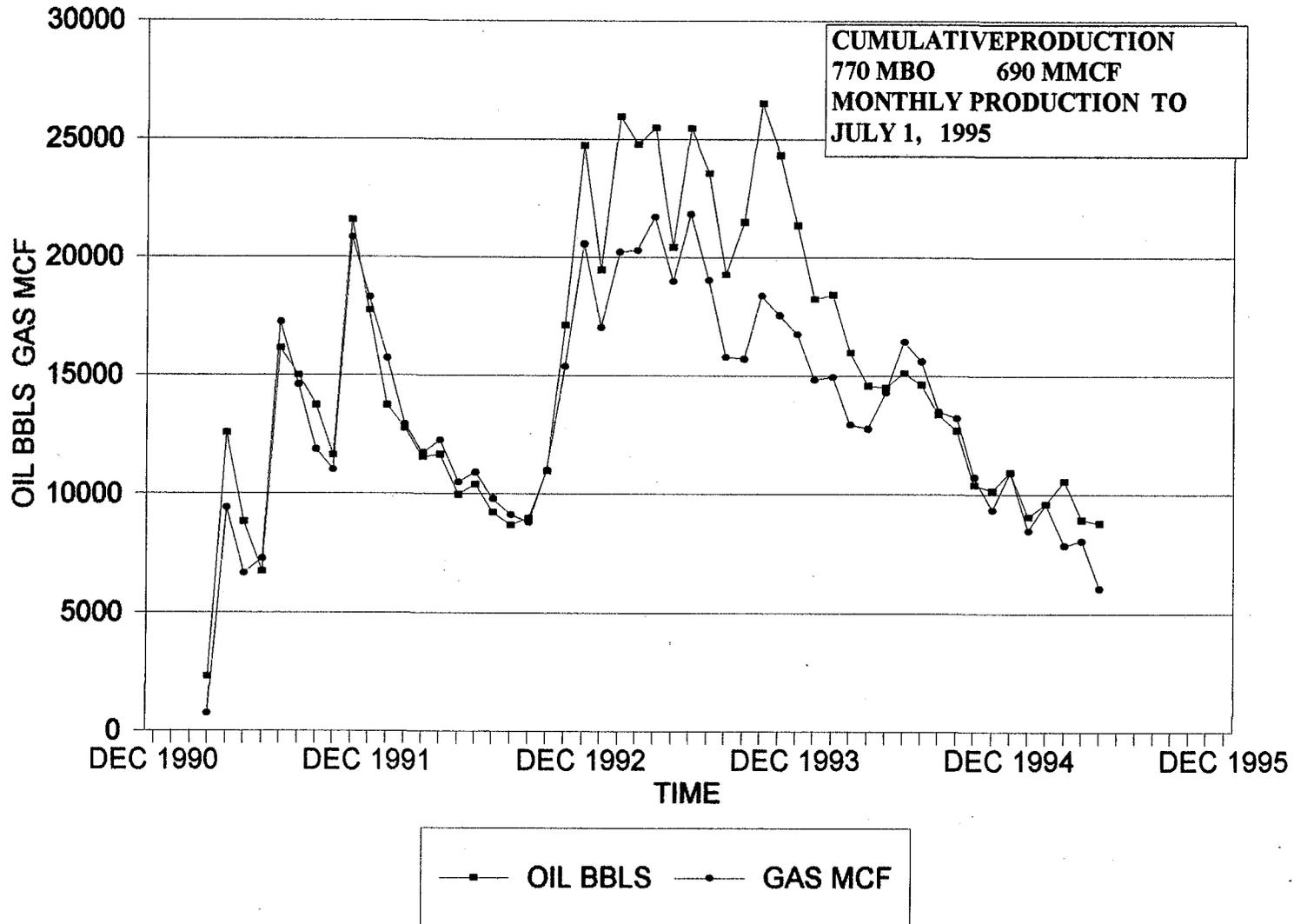
A handwritten signature in cursive script that reads "Keith Oliver".

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			426467		
✓ GOVT EVELYN CHAMBERS #2 4303730612	07100	31S 24E 5	ISMY			426467		
✓ FEDERAL 33-8-N 4304731787	10760	06S 21E 33	GRRV			437116		
✓ COWDEN 31-3-C 4304731768	10761	06S 21E 31	GRRV			431736		
✓ 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			428212		
✓ FEDERAL 33-3-J 4304731804	10787	06S 21E 33	NW SE GRRV			428212		
✓ FEDERAL 33-7-L 4304731844	10915	06S 21E 33	NW SW GRRV			450687	U.A. UTK6783	
✓ ALTA 5-2-C 4304731843	10916	07S 21E 5	GRRV			FEE	(Bond OK)	
KANE SPRINGS FEDERAL 27-1 4301931310	11180	25S 19E 27	CNCR			465971	Kane Springs Unit	
KANE SPRINGS FEDERAL 19-1A 4301931324	11353	26S 20E 19	CNCR			47453626	Kane Springs Unit	
KANE SPRINGS FEDERAL 28-1 4301931325	11354	25S 19E 28	CNCR			450678	SW 20 Kane Springs Unit/Non RA	
✓ KANE SPRINGS FEDERAL 10-1 4301931331	11414	25S 18E 10	CNCR			47447858	Kane Springs Unit	
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_

I hereby certify that this report is true and complete to the best of my knowledge.

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

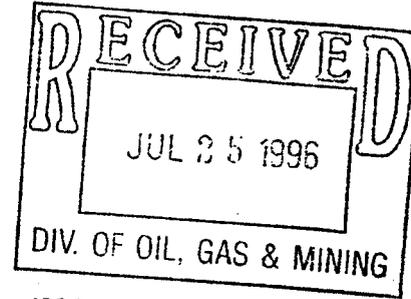
Telephone Number: \_\_\_\_\_



# 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

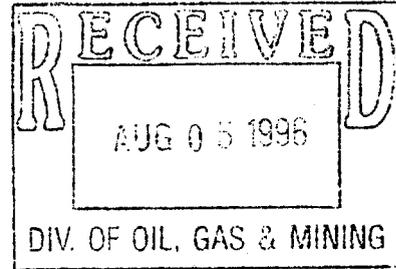
U-968	U-52277	UTU-65329
U-6911	U-52641	UTU-65795
U-15051	U-53624	UTU-65971
U-26467	U-53626	UTU-65972
U-28212	U-54037	UTU-65973
U-31736	U-55510	UTU-66020
U-34023	U-58517	UTU-66025
U-37116	U-60530	UTU-66849
U-46693	U-61182	UTU-67132
U-46697	U-61588	UTU-67552
U-47858	U-62181	UTU-67558
U-49964	U-62679	UTU-67854
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

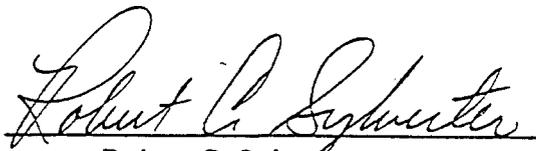
CERTIFICATE

I, Robert C. Sylvester, Assistant Secretary of Avicara 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

5<sup>th</sup>

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

AUTHENTICATION:

7928485

DATE:

05-01-96

0735923 8100

960125685

STATE OF 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

## 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 5<sup>th</sup> 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 5<sup>th</sup> 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 5<sup>th</sup> 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

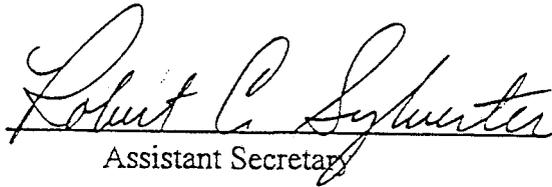
CERTIFICATE

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 5<sup>th</sup> day of July, 1996.

  
Assistant Secretary

CORPORATE SEAL

**OPERATOR CHANGE WORKSHEET**

Routing	
1-LEC ✓	6-LEC ✓
2-GIA/EVI ✓	7-KDR ✓
3-DTS ✓	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) AVIARA ENERGY CORPORATION  
 (address) PO BOX 1350  
HOUSTON TX 77251  
 Phone: (713)871-3400  
 Account no. N5500 (8-6-96)

FROM: (old operator) COLUMBIA GAS DEVELOPMENT  
 (address) PO BOX 1350  
HOUSTON TX 77251  
 Phone: (713)871-3400  
 Account no. N5035

WELL(S) attach additional page if needed: **\*KANE SPRINGS UNIT**  
**C.A. UTU60783**

Name: <b>**SEE ATTACHED**</b>	API: <u>43-019-31310</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**

- LC 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) 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/Reid Bond Rider "Columbia to Aviare"  
\*Reid "Rider" 8-5-96; bond no. chgd to U274145L  
\$20,000 Aviare Energy Corporation, United Pacific Ins.*

- LC 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**

KDR 1. All attachments to this form have been microfilmed. Today's date: August 21, 1996

**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**

760725 BLM/SL Apprv. 5-1-96.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. Lease Designation and Serial Number: UTU-65971
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.		6. If Indian, Allottee or Tribe Name: N/A
		7. Unit Agreement Name: Kane Springs Federal Unit
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER: _____	8. Well Name and Number: Kane Springs Federal #27-1	
2. Name of Operator: Aviara Energy Corporation	9. API Well Number: 43-019-31310	
3. Address and Telephone Number: P. O. Box 1350, Houston, TX 77251-1350 713-871-3444	10. Field and Pool, or Wildcat: Bartlett Flat	
4. Location of Well Footages: 1700' FEL & 1650' FSL QQ, Sec., T., R., M.: Sec. 27- <del>T15S</del> - R19E	County: Grand State: Utah	

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other <u>Add Perforations</u>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion <u>8/12/97</u>  <small>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.</small>

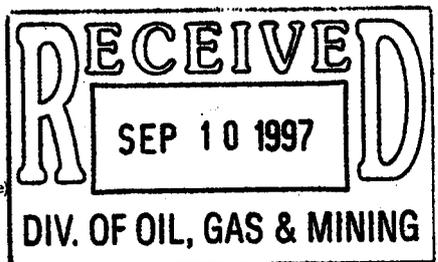
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

1. Held safety meeting and RU on 8/5/97.
2. NU BOPs, pulled pumping equipment out of hole and ran pkr seal assembly in hole. Tested pkr and csg to 800 psi, OK.
3. Added perforations in the Cane Creek formation @ 7416-36' and 7312-47' 2 SPF. Well dead.
4. Pulled pkr assembly out of hole.
5. Ran pumping equipment back in hole. RD BOPs.
6. Put well back on pump 8/12/97. 77 MCFPD, 175 BOPD, 149 BWPD, FTP 50 psi.

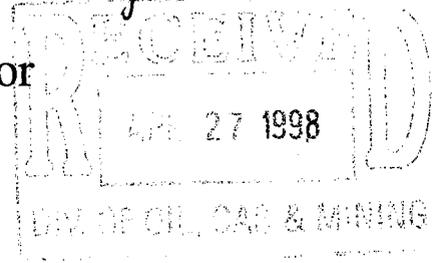
Note: Production before adding perfs was approx. 8 MCFPD, 18 BOPD, 0 BWPD, FTP 15 psi.  
Present production 9/8/97: 154 MCFPD, 164 BOPD, 18 BWPD, FTP 30 psi.

13. Name & Signature: Victoria Audry Title: Prod/Regulatory Coord. Date: 9/8/97

(This space for State use only)



cc: JKB  
RSK  
SLS  
orig: route



# 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.*

*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)  
**1700' FEL & 1650' FSL  
 Sec. 27, T15S, R19E**

5. Lease Serial No.

**UTU-65971**

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. #27-1**

9. API Well No.  
**43-019-31310**

10. Field and Pool, or Exploratory Area  
**Bartlett Flat**

11. County or Parish, State  
**Grand County, UT**

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

TYPE OF SUBMISSION

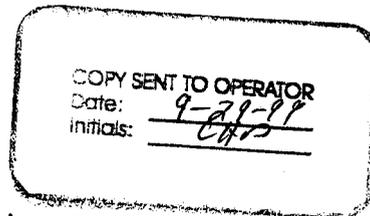
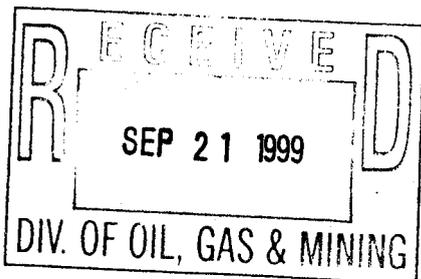
- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                   |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                   |
| <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.



**APPROVED**

The Utah Division of Oil, Gas and Mining  
 Robert J. Krueger, PE, Petroleum Engineer  
 Federal 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**

*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 #27-1 PROCEDURE**  
**AFE # 991107**

1. Pump 70 Bbls hot oil & 70 Bbls hot FW down casing prior to job.
2. MIRU. TOH w/ rods and pump.
3. NU BOPs, TOH w/ 2-7/8" tbg.
4. PU mill assembly, jars, DCs, and 2-7/8" work string.
5. TIH w/ tbg to pkr @ 6700'.
6. RU circulating head, and power swivel.
7. Mill out pkr. Reverse circulate at high pmp rate w/ oil, will have partial returns.
8. TOH & LD pkr assembly.
9. PU 4-5/8" bit (large nozzles), 900' 2-7/8" WS, oil jars, and TIH w/ 2-7/8" WS to top of liner @ 7438'. Reverse clean while working bit in & out of liner top.
10. FTIH to PBTD @ 8244'. Mill through any plugs, reverse clean.
11. Circulate 70 Bbls FW down tbg, TOH w/ bit, LD 2-7/8" WS.
12. PU 9-5/8" RBP and DG pkr, TIH w/ 2-7/8" production tbg, fill tbg w/ lease SW.
13. Set RBP @ 7410' and test to 5000#. Set pkr @ 7270' and test annulus to 2000#.
14. Break down perfs @ 7310-70' w/ 5000#, and establish PIR. Keep 2000# on annulus.
15. If unable to break down, TOH w/ pkr, re-perf w/ csg gun and try to breakdown again.
16. Retrieve RBP, TOH and LD RBP and pkr.
17. PU tailpipe tbg, tbg anchor, SN, and TIH w/ 6800' of 2-7/8" tbg.
18. Set tbg anchor, ND BOPs, NU pumping flange.
19. Run rods and pump, put well to pumping.

*Aviara Energy  
Corporation*

January 4, 2000

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

Reference: Kane Springs Federal #27-1

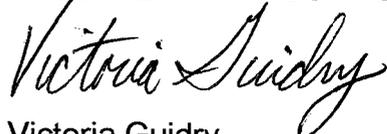
Dear Sirs:

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

H:\...reg\053e

**RECEIVED**

**JAN 10 2000**

**DIVISION OF OIL, GAS & MINING**

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-65971**

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. #27-1**

9. API Well No.

**43-019-31310**

10. Field and Pool, or Exploratory Area  
**Bartlett Flat**

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

**Avlara 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)

**1700' FEL & 1650' FSL  
Sec. 27, T15S, R19E  
255**

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

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

- |   |   |  |   |
|---|---|--|---|
| <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                   |
| <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                   |
| <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 WORKOVER OPERATIONS PERFORMED.

*11-19-12-5-99 / Victoria / CHD  
1-11-2000*

**RECEIVED**

**JAN 10 2000**

**DIVISION OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

**Victoria Guidry**

Title

**Production/Regulatory Coordinator**

Date

**1/4/00**

**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.

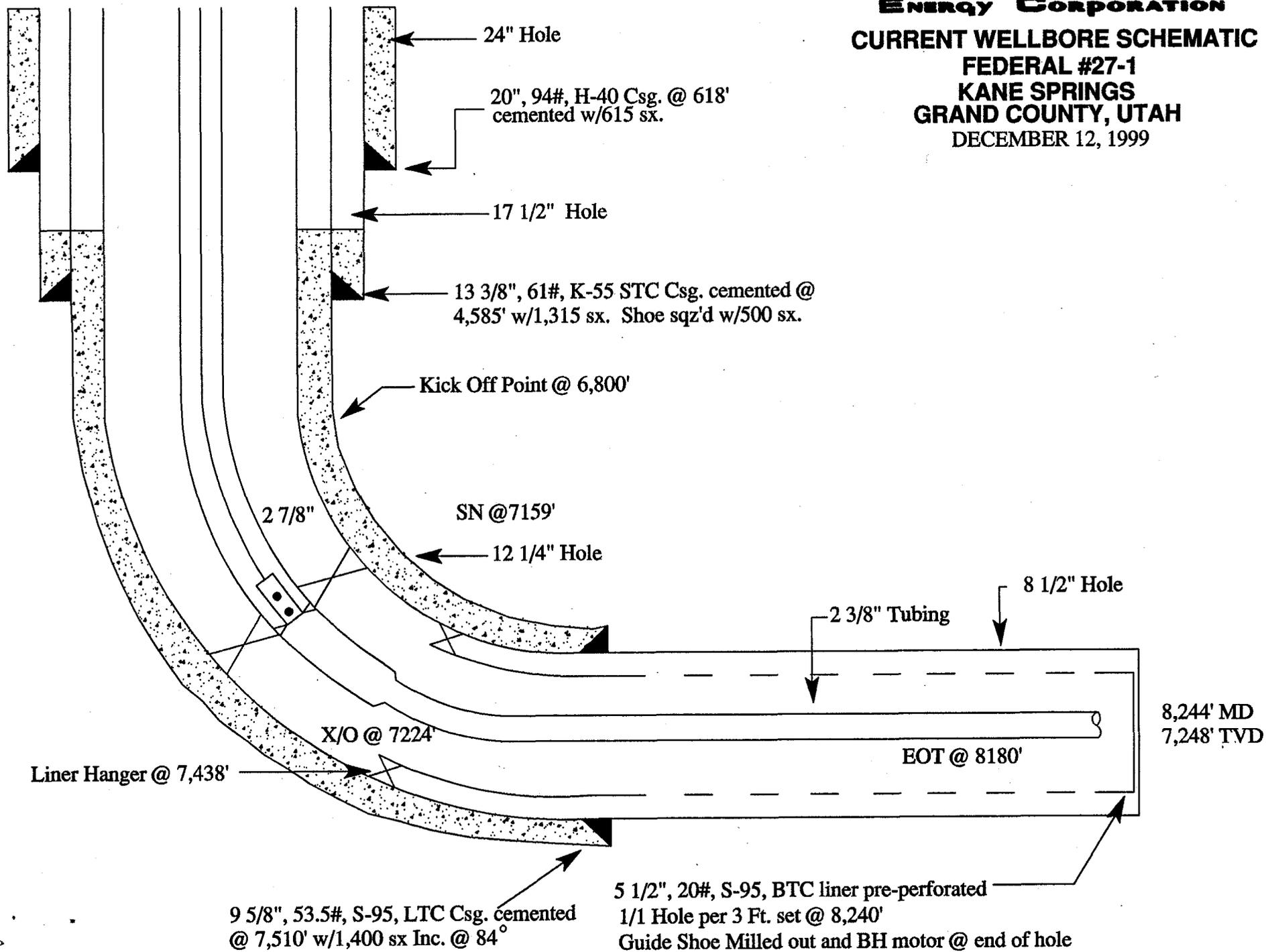
(Instructions on reverse)

## FEDERAL #27-1 OPERATIONS PERFORMED

1. MIRU. TOH w/ rods and pump.
2. NU BOPs, TOH w/ 2-7/8" tbg.
3. PU mill assembly, jars, DCs, and 2-7/8" work string.
4. TIH w/ tbg to pkr @ 6700'.
5. RU circulating head, and power swivel.
6. Milled out pkr.
7. TOH & LD pkr assembly.
8. TIH w/ 9-5/8" csg scraper, clean csg, TOH w/ scraper.
9. TIH w/ milling shoe to liner top, clean csg, TOH w/ shoe.
10. PU 9-5/8" RBP and DG pkr, TIH w/ 2-7/8" production tbg.
11. Set RBP @ 7410' and test to 5000#. Set pkr @ 7270' and test annulus to 2000#.
12. Broke down perfs @ 7310-70' w/ 1400#, pmpd 20 bbls.
13. Retrieve RBP, TOH and LD RBP and pkr.
14. PU 4-5/8" mill, 900' 2-7/8" WS, oil jars, and TIH w/ 2-7/8" WS to top of liner @ 7438'. Reversed clean while working bit in & out of liner top.
15. FTIH to PBSD @ 8244'. Milled float shoe and reversed clean.
16. TOH w/ bit, LD 2-7/8" WS.
17. PU tailpipe tbg, tbg anchor, SN, and TIH w/ 7159' of 2-7/8" tbg.
18. Set tbg anchor, ND BOPs, NU pumping flange.
19. Run rods and pump, put well to pumping.

# AVIARA ENERGY CORPORATION

**CURRENT WELLBORE SCHEMATIC**  
**FEDERAL #27-1**  
**KANE SPRINGS**  
**GRAND COUNTY, UTAH**  
DECEMBER 12, 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 Krawiec*  
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: QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
		10. FIELD AND POOL, OR WILDCAT: STATE: <b>UTAH</b>

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"/> 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.

Change of company from Aviaara 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



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**7. Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: 07/01/2002

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**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

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**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

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**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

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**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

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**COMMENTS:**

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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.*

*SUBMIT IN TRIPPLICATE - Other Instructions on reverse side*

1. Type of Well  
 Oil Well    Gas Well    Other

2. Name of Operator  
 Hunt Petroleum (AEC), Inc.

3a. Address   P. O. Box 1350  
 Houston, Texas 77251-1350

3b. Phone No. (include area code)  
 (713) 871-3400

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1700' FEL & 1650' FSL of Sec. 27-T25S-R19E

5. Lease Serial No.  
 UTU-65971

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

7. If Unit or CA/Agreement, Name and/or No.  
 Kane Springs Federal Unit

8. Well Name and No.  
 Kane Springs Federal #27-1

9. API Well No.  
 43-019-31310

10. Field and Pool, or Exploratory Area  
 Bartlett Flat Field

11. County or Parish, State  
 Grand County, Utah

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 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 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

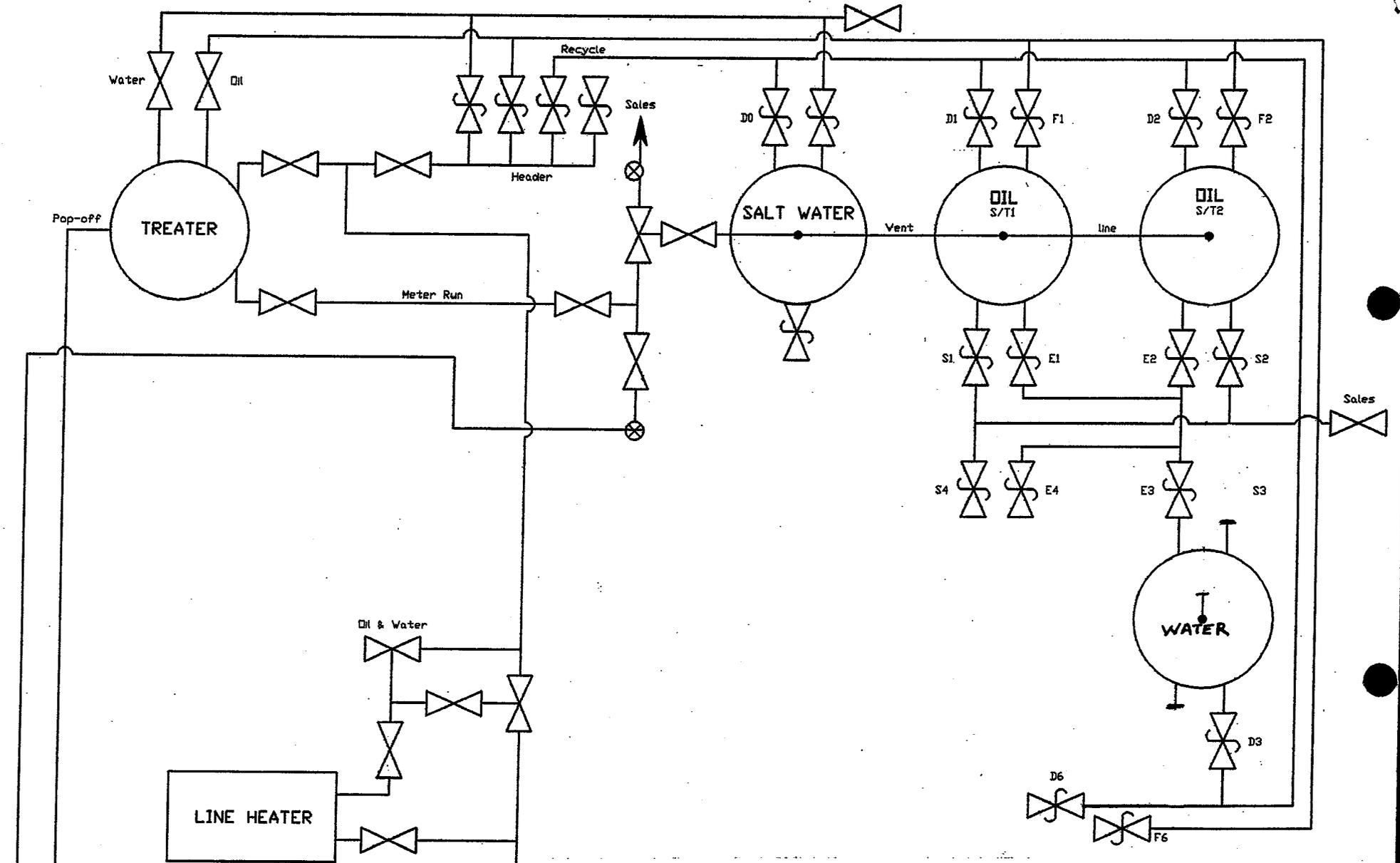
Name (Printed/Typed) Victoria Guidry	Title Regulatory Coordinator
Signature <i>Victoria Guidry</i>	Date 02/20/03

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)



LEGEND

-  Sealable valve
-  Sealed valve
-  Back pressure valve

**Hunt**  
**Petroleum**

KANE SPRINGS FEDERAL 27-1  
GRAND COUNTY, UTAH

SITE SECURITY DIAGRAM

drafter: SMF  
date: 25-JAN-94

acc# wust  
dug# ksp27-1\_site



# 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 17<sup>th</sup> 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	E F
Production	4301931334	HUNT PETROLEUM (AEC) INC	25-19-34-1 KANE SPRG	POW	UTU53624	UTU67755A	25S	19E	34	NWNE	E F
Production	4301931319	HUNT PETROLEUM (AEC) INC	19-1 KANE SPRINGS	P+A	UTU53626	UTU67755B	26S	20E	19	SWSE	F F
Production	4301931324	HUNT PETROLEUM (AEC) INC	19-1A KANE SPRINGS	POW	UTU53626	UTU67755B	26S	20E	19	SESW	F F
Production	4301931331	HUNT PETROLEUM (AEC) INC	10-1 KANE SPRINGS	POW	UTU47858	UTU67755C	25S	18E	10	NWSE	F F

*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-65971

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
\_\_\_\_\_

7. UNIT or CA AGREEMENT NAME:  
Kane Springs Federal Unit

8. WELL NAME and NUMBER:  
Kane Springs Federal #27-1

9. API NUMBER:  
43-019-31310

10. FIELD AND POOL, OR WILDCAT:  
Bartlett Flat

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

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 1700' FEL & 1650' FSL COUNTY: Grand  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 27 15S 19E STATE: UTAH

PHONE NUMBER:  
713-871-3400

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

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

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

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 24, 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, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. LEASE DESIGNATION AND SERIAL NUMBER:  
See List below

8. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or O.A. AGREEMENT NAME:

9. WELL NAME and NUMBER:  
See List below

3. 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

COUNTY: Grand

ROOSTAGES AT SURFACE:

OTWQTR, 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 PLANE	<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, 34-26S-19E
- Kane Springs Federal #27-1 - UTU-65971 - API 4301931310 - 1700' FEL, 1650' FSL, 27-25S-19E
- Kane Springs Federal #10-1 - UTU-47858 - API 4301931331 - 2333' FSL, 2112' FEL, 10-25S-18E
- Cane 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

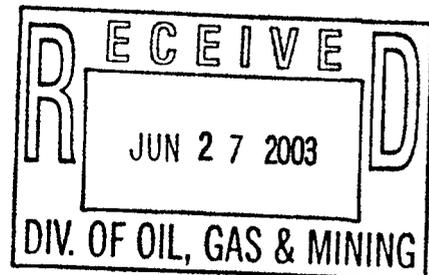
SIGNATURE *H. Richard Miller*

DATE 6/27/2003

(This space for State use only)

(5/2000)

(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: <b>04/28/2003</b>	
<b>FROM: (Old Operator):</b> HUNT PETROLEUM CORPORATION 1601 Elm Street, Suite 3400 Dallas, TX 75201 Phone: 1-(214) 880-8914 Account No. N 2180	<b>TO: ( New Operator):</b> 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
<b>Kane Springs Unit</b>								
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
<b>Cane Creek Unit</b>								
CANE CREEK FED 11-1	11	260S	190E	4301931364	13477	Federal	OW	P

**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: 06/25/2003
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 06/27/2003
3. The new company has been checked through the **Department of Commerce, Division of Corporations Database** on: 06/30/2003
4. Is the new operator registered in the State of Utah: YES Business Number: 2029416-0161
5. 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
4301931396	Cane Creek 2-1		SENE	2	26S	19E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	13477	14505				1/18/2005	
<b>Comments:</b> Correction requested by operator to separate entity number. (DOGM error) Please correct production reports back to beginning of production.							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301931310	Kane Springs Fed 27-1		NWSE	27	25S	19E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	11180	14506				1/18/2005	
<b>Comments:</b> Correction requested by operator due to unit change. Please correct reports effective 5/18/2004. (PA "A")							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43019 31334	Kane Springs Fed 25-19-34-1		NWNE	34	25S	19E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
D	11521	<del>14506</del> 14511				1/18/2005	
<b>Comments:</b> Correction requested by operator due to unit change. Please correct reports effective 5/18/2004. (PA "A")							

**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)

*Earlene Russell*

Signature

Engineering Tech

1/18/2005

Title

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

<b>FROM: (Old Operator):</b> N6810-Intrepid Oil & Gas, LLC 700 17th St, Suite 1700 Denver, CO 80202 Phone: 1 (303) 296-3006	<b>TO: ( New Operator):</b> N3135-Babcock & Brown Energy, Inc. 1512 Larimer St, Suite 550 Denver, CO 80202 Phone: 1 (303) 460-1132	
<b>CA No.</b>	<b>Unit:</b>	<b>CANE CREEK</b>

**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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See attached Exhibit</b>
		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: <b>See attached Exhibit</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>See attached Exhibit</b>
2. NAME OF OPERATOR: <b>Babcock &amp; Brown Energy Inc.</b>	<b>N3135</b>	9. API NUMBER: <b>See attach</b>
3. ADDRESS OF OPERATOR: 1512 Lanimer St, Suite 550 CITY Denver STATE CO ZIP 80202		10. FIELD AND POOL, OR WILDCAT: <b>See attached Exhibit</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>SEE ATTACHED EXHIBIT FOR ALL WELLS &amp; DETAILS</b>		COUNTY:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

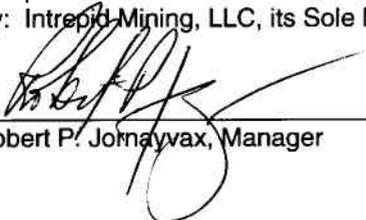
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) 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**

<b>FROM: (Old Operator):</b> N3135-Babcock & Brown Energy, Inc. 1512 Larimer St, Suite 550 Denver, CO 80202 Phone: 1 (303) 460-1132	<b>TO: (New Operator):</b> 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
- a. Is the new operator registered in the State of Utah: yes Business Number: 4917099-0143
- a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. 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
- a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 190017646
- b. 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.

<b>1. TYPE OF WELL</b> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> See Attached Exhibit
<b>2. NAME OF OPERATOR:</b> Fidelity Exploration & Production Company <i>N3155</i>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1700 Broadway, Suite 2800 CITY Denver STATE CO ZIP 80203		<b>7. UNIT or CA AGREEMENT NAME:</b> See Attached Exhibit
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: SEE ATTACHED EXHIBIT FOR ALL WELLS AND DETAILS		<b>8. WELL NAME and NUMBER:</b> See Attached Exhibit
PHONE NUMBER: (303) 893-3133		<b>9. API NUMBER:</b> See Attach
<b>10. FIELD AND POOL, OR WILDCAT:</b>		See Attached Exhibit

**4. LOCATION OF WELL**

FOOTAGES AT SURFACE: SEE ATTACHED EXHIBIT FOR ALL WELLS AND DETAILS

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

COUNTY: \_\_\_\_\_ STATE: **UTAH**

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

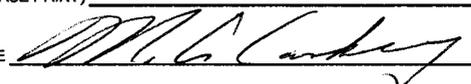
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> (Submit in Duplicate)  Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> (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.

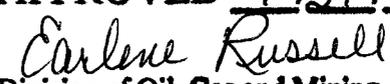
Effective January 1, 2008, Babcock & Brown Energy Inc. resigned as Operator of the wells listed on the attached Exhibit and Fidelity Exploration & Production Company has been designated as successor Operator. Concurrent with this action, Babcock & Brown Energy Inc. resigns as Operator of these wells 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. *N3135*

By  \_\_\_\_\_  
 Van Z. Spence, Resident  
*1512 Larimer St., Suite 550*  
*Denver Co 80202*  
*(303) 466-1132*

NAME (PLEASE PRINT) <u>Michael C. Caskey</u>	TITLE <u>Executive Vice President &amp; Chief Operating Officer</u>
SIGNATURE 	DATE <u>January 1, 2008</u>

(This space for State use only)

**APPROVED** 1/31/2008  
  
 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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-65971
	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  _____
	<b>7. UNIT or CA AGREEMENT NAME:</b> CANE CREEK
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> KANE SPRINGS FED 27-1
<b>2. NAME OF OPERATOR:</b> FIDELITY E&P COMPANY	<b>9. API NUMBER:</b> 43019313100000
<b>3. ADDRESS OF OPERATOR:</b> 2585 Heartland Drive , Sheridan, WY, 82801 8543	<b>PHONE NUMBER:</b> 303 893-3133 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1650 FSL 1700 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 27 Township: 25.0S Range: 19.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> BIG FLAT  <b>COUNTY:</b> GRAND  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: _____
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 12/4/2009			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

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

Fidelity Exploration and Production Company installed a Lufkin conventional pump jack. Well resumed pumping 12/5/2009

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

**FOR RECORD ONLY**

January 14, 2010

<b>NAME (PLEASE PRINT)</b> Stephanie Masters	<b>PHONE NUMBER</b> 307 675-4924	<b>TITLE</b> Operations Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/13/2010	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  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-65971
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 27-1
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1650 FSL 1700 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 27 Township: 25.0S Range: 19.0E Meridian: S	9. API NUMBER: 43019313100000
9. FIELD and POOL or WILDCAT: BIG FLAT	COUNTY: GRAND
9. API NUMBER: 43019313100000	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 Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/27/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<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 checked="" type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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**

<b>NAME (PLEASE PRINT)</b> Sandi Stocker	<b>PHONE NUMBER</b> 720 931-9637	<b>TITLE</b> Engineering Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/27/2014	

Division of Oil, Gas and Mining  
 Operator Change/Name Change Worksheet-for State use only

Effective Date: 3/1/2016

<b>FORMER OPERATOR:</b> Fidelity E&P Company N3155 1801 Californina Street, Suite 2500 Denver, CO 80202	<b>NEW OPERATOR:</b> Wesco Operating, Inc. N4030 PO Box 1650 Casper, WY 82602
<b>CA Number(s):</b>	<b>Unit(s):</b> 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

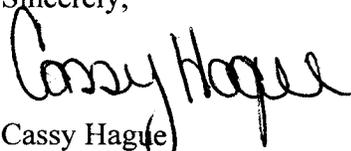
RE: Change of Operator

- 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

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>See Attached Exhibit</b>
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: <b>See Attached Exhibit</b>
		7. UNIT or CA AGREEMENT NAME: <b>See Attached Exhibit</b>
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	8. WELL NAME and NUMBER: <b>See Attached Exhibit</b>	
2. NAME OF OPERATOR: <b>Fidelity Exploration &amp; Production Company</b>		9. API NUMBER:
3. ADDRESS OF OPERATOR: 1801 California St., STE 250 CITY Denver STATE CO ZIP 80202	PHONE NUMBER: <b>(303) 893-3133</b>	10. FIELD AND POOL, OR WILDCAT: <b>See Attached Exhibit</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>See attached exhibit for all wells and details</b>		COUNTY: <b>Grand</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____		STATE: <b>UTAH</b>

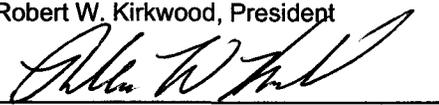
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: <u>3/1/2016</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> 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.

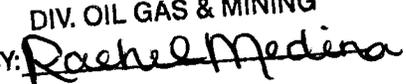
Wesco Operating, Inc.  
P.O. Box 1650  
Casper, Wyoming 82602  
Phone 307-265-5178

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)

<b>Well name:</b>	See attached well list
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Fidelity Exploration & Production Company
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Fidelity Exploration & Production Company

Check one	Desired Action:
<input type="checkbox"/>	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	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"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	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:

**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

8. WELL NAME and NUMBER:  
**Blue Hills Gas Plant**

2. NAME OF OPERATOR:  
**Fidelity Exploration & Production Company**

9. API NUMBER:

3. ADDRESS OF OPERATOR:  
1801 California St., STE 2500 CITY Denver STATE CO ZIP 80202

PHONE NUMBER:  
**(303) 893-3133**

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: \_\_\_\_\_ COUNTY: **Grand**  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: \_\_\_\_\_ STATE: **UTAH**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <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: <b>Dubinky Booster Station</b>
2. NAME OF OPERATOR: <b>Fidelity Exploration &amp; Production Company</b>		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: <b>Grand</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> (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"/> <b>SUBSEQUENT REPORT</b> (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	

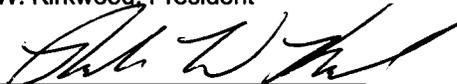
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

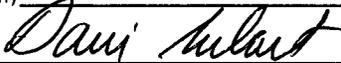
Effective March 1, 2016, Fidelity Exploration & Production Company (Operator Number N1355) resigns as Operator of the Dubinky Booster Station located along Dubinky Road, approximately 18 miles northwest of Moab, 599142 E 4280872 N UTM Zone 12, NAD83. Wesco Operating, Inc. has been named as successor 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: 