

FILE NOTATIONS

Entered in NID File ✓
 Location Map Pinned ✓
 Card Indexed ✓

Checked by Chief
 Approval Letter
 Disapproval Letter

COMPLETION DATA:

Date Well Completed 8-29-76

Location Inspected

OW..... W..... TA..... ✓
 GW..... OS..... PA..... ✓

Bond released

State or Fee Land

LOGS FILED

Driller's Log.....

Electric Logs (No.)

E..... I..... Dual I Lat..... GR-N..... MLC

BRC Sonic GR..... Lat..... Mi-L..... Sonic.....

CBLog..... CCLog..... Others.....



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

3104

Utah State Office
Post Office Box No. 11505
Salt Lake City, Utah 84111

May 2, 1975

DECISION

CCCo
2723 Melbourne Ave.
Salt Lake City, UT 84106

:
:
:
:
:

\$25,000 Statewide Bond

Bond Accepted

On April 25, 1975, you filed a \$25,000 statewide oil and gas bond with CCCo as principal and Continental Casualty Company as surety.

This bond constitutes coverage under 43 CFR 3104.6 for all oil and gas leases and applications or offers therefor, as well as assignments or operating agreements affecting such leases, issued for national resource lands pursuant to the Act of February 25, 1920, as amended, in the State of Utah. The bond is satisfactory and is hereby accepted effective as of April 25, 1975, the date of its filing.

Coverage under your statewide bond will not, however, extend to include additional principals, nor will the coverage extend to any national resource lands where you are the unit operator but do not own the record title or operating rights.

Dell T. Waddoups
Chief, Branch of Realty Services

cc: Surety
USGS, Casper & Roswell



Save Energy and You Serve America!

DIVISION OF OIL, GAS, AND MINING

FILE NOTATIONS

Date: March 26
Operator: CCCo
Well No: CCCo - Helen C. Gov. 11-2
Location: Sec. 11 T. 21S R. 23E County: Graud

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

Checked By:

Administrative Assistant: [Signature]

Remarks: diagonal offset - CCCo - Adak 11-1A well

Petroleum Engineer/Mined Land Coordinator: _____

Remarks:

Director: 7

Remarks:

Include Within Approval Letter:

Bond Required Survey Plat Required
Order No. 102-10 Blowout Prevention Equipment
Rule C-3(c) Topographical exception/company owns or controls acreage within a 660' radius of proposed site
O.K. Rule C-3 O.K. In _____ Unit
Other:

Letter Written

Will File

March 26, 1976

CCCo
2723 Melbourne Street
Salt Lake City, Utah 84106

✓
Re: Well No. CCCo-Helen C. Gov't. 11-2
Sec. 11, T. 21 S, R. 23 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, and the Hearing in Cause No. 102-10, pending for June, 1976.

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

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

With respect to your Applications which have been received for the CCCo-Cookie Govt. 11-3 and CCCo-Aline Govt. 11-4, please be advised that this Division cannot administratively approve these particular applications until after the hearing in Cause No. 102-10 has been held and an Order issued. Consequently, we will withhold approval of these applications until this time.

Should you have any questions relative to the above, please do not hesitate to call. We have enclosed copies of Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-019-30280.

Very truly yours,

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: U.S. Geological Survey



Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

UTAH STATE
OIL, GAS,
AND MINING
NTL-6 attached

May 18, 1976

Mr. Dean H. Christenson
C. C. Company
2723 Melbourne Street
Salt Lake City, Utah 84106

Re: Helen C. Well No. 11-2
SE $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 11-21S-23E, SLB&M
Cisco Area, Grand County, Utah
Oil & Gas Lease U-16965

Dear Mr. Christenson:

Enclosed is your approved copy of the referenced Application for Permit to Drill. Please note the attached standard Conditions of Approval. In addition to these Conditions of Approval, the following Supplemental Conditions of Approval will apply:

(1) Surface Use Plan -- The trash pit will be fenced with small mesh wire fence to prevent the wind blowing and scattering trash until the trash is buried. This stipulation should be incorporated in any future Surface Use Plans submitted with Applications for Permit to Drill. Also, please be advised that NTL-6 was published in final form in the Federal Register April 30, 1976. You will receive a notification copy of this Notice to Lessees. Future applications should comply with this Notice.

(2) Application to Drill; Operations --

(a) A drilling mud balance and mud checking/testing equipment must be provided on location at all times. The drilling mud will be checked at regular intervals to assure mud qualities adequate for well control. The results of these regular mud checks will be entered on each tour sheet.

(b) There shall be on hand at the drill site sufficient mud, mud weighting materials and water to provide twice the hole capacity (at TD) and a reserve of 100 bbls. of a minimum 14-15 lb/gal. drilling mud.

CIRCULATE TO:

DIRECTOR ----- P
PETROLEUM ENGINEER -----
MINE COORDINATOR -----
ADMINISTRATIVE ASSISTANT ----- S
ALL -----

RETURN TO Hyth
FOR FILING

(c) Extreme care must be utilized in making trips and other down hole operations during this operation. The hole should be maintained full of drilling mud with adequate weight. When pulling drill pipe, or other pulling operations, the hole should be filled after every ten joints (less number of joints is preferred) and check made that the mud column in the hole is stable.

(d) All wire line work (i.e., logging, perforating) will be performed utilizing a lubricator of sufficient length to contain the tools.

If mobile phone communications are to be provided at the site, please advise this office of the number and base.

As a result of the hearing before the Board of Oil, Gas and Mining, Utah, March 24, 1976, approval of this well at this location negates any approval for additional wells located in NE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 11-21S-23E, on your lease, until production data obtained can establish a change in the agreed spacing pattern for optimum recovery of the hydrocarbons in place.

Please note Part VII, NTL-2B attached and the enclosed copy of NTL-6 from the Federal Register, April 30, 1976.

Sincerely yours,

(Orig. Sgd.) E. W. Guynn

E. W. Guynn
District Engineer

Attachments:
As stated

cc: O&GS, NRMA, Casper
Oil, Gas & Mining, Utah w/copy NTL-6

bcc: BLM, Moab
USGS, Vernal
Well file

EWG:tw

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
 CCCo

3. ADDRESS OF OPERATOR
 2723 Melbourne Street, Salt Lake City, Utah 84106

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 647' West of the East Line, 3288' North of the South
 At proposed prod. zone Line, Sect 11, T21S, R23E, SLM
 Same within 50'

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 10 Miles Cisco, Utah

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 647'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1309'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4473 GR

5. LEASE DESIGNATION AND SERIAL NO.
 U-16965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 CCCo

9. WELL NO.
 CCCo-Helen C. Gov't 11-2

10. FIELD AND POOL, OR WILDCAT
 Cisco Area

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 Sect 11, T21S, R23E SLM

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

16. NO. OF ACRES IN LEASE 720 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL 40 acres

19. PROPOSED DEPTH 1100'

20. ROTARY OR CABLE TOOLS
 Rotary

22. APPROX. DATE WORK WILL START*
 May 1976

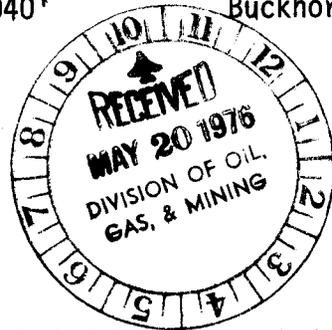
23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9"	7 5/8"	26.5	175'	Cemented back to surface
6 1/2"	4 1/2"		TD	Cmtd to 500' or 150ft above top hydrocarbon zone

Projected Tops:

Surface	Mancos Shale
715'	Dakota Sandstone
899'	Cedar Mountain
1040'	Buckhorn Sandstone

See Attached 7-Point and 12 Point Programs



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 [Signature] TITLE General Manager DATE 3/2/76

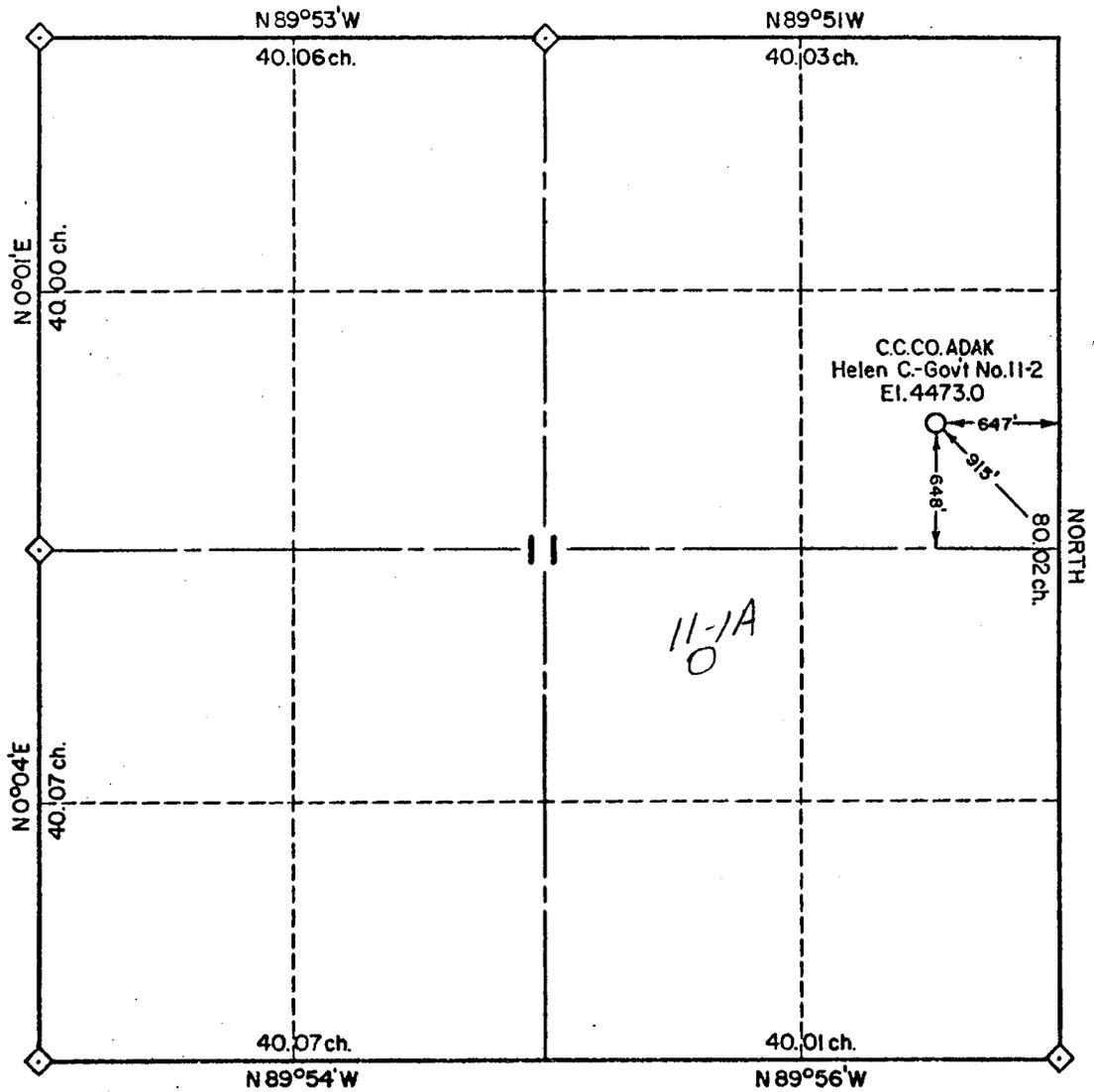
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE MAY 18 1976

CONDITIONS OF APPROVAL, IF ANY:

Approval Notice
 *See Instructions On Reverse Side
 STAGE Div. O + G & MINING
 CONS - SLC



◆ Brass cap-Section Corner located. Well location as shown is in the C SE1/4, NW1/4, Section 11, T21S-R23E, Grand County, Utah.



This is to certify that this plat was prepared from field notes of actual survey made Jan. 15, 1976 and that the same is true and correct to the best of my knowledge and belief.

[Signature]
 Certified Professional Geologist
 No. 766

C.C.CO.
 2723 MELBOURNE ST.
 SALT LAKE CITY, UTAH 84106

Scale : 1 in. = 1000 Ft. Date: *7.6.76*

Revised: Approved: *[Signature]*

CC Co.
 Well # 11-2
 SE/NE SEC 11
 T21S R23E
 GRAND CO. UTAH
 LSE-U-16965
 CC Co - L. Wells
 BLM - D. Nagle
 USGS. B. FIAT
 NO EFFECT
 ENHANCE
 MINOR IMPACT
 MAJOR IMPACT

	Construction				Pollution			Drilling Production			Transport Operations			Accidents		Others		
	Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines	Others	Spills and leaks

Land Use	Forestry	✓																		
	Grazing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Wilderness	✓																		
	Agriculture	✓																		
	Residential-Commercial	✓																		
	Mineral Extraction	✓																		
	Recreation	✓																		
	Scenic Views	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Parks, Reserves, Monuments	✓																		
	Historical Sites	✓	NO EVIDENCE																	
	Unique Physical Features	✓																		
Flora & Fauna	Birds	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Land Animals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Fish	✓																		
	Endangered Species	✓	NONE KNOWN																	
Phy. Charact.	Trees, Grass, Etc.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Surface Water	✓																		
	Underground Water	✓																		
	Air Quality	✓							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Erosion	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Other	✓																		
Effect On Local Economy	✓	0	0						0					0	0					
Safety & Health								✓												
Others		ORIG - FILE BLM - M&AB w/o MATRIX REG MGR - DJR UTAH STATE OFG																		

Lease

U16965

Well No. & Location

11-2 SE/NE SEC 11 T21S-

R23E GRAND Co. UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

C.C. Co. proposes to drill an oil & gas test well with rotary tools to the depth of approx 1100'. To clear and level a drilling location 100' x 150' and to construct a reservoir pit 35' x 50' to accommodate operations. No new access road will be required.

2. Location and Natural Setting (existing environmental situation)

The proposed prospect is approx. two miles north west of Cisco, Utah.

The well will be approx 1/4 mile east of the C.C. Co. well 11-1A.

The area is generally rolling hills with numerous gullies & washes.

The ~~area~~ soil is Mancos shale with very sparse vegetation. Scrub sage brush and native grasses with a few scattered cactus.

Wildlife is also very sparse with a few scattered Antelope, small rodents & birds.

There is a grazing allotment on the surface which is considered poor livestock grazing.

* NOTE - BLM Management Framework Plan

Ref - Book Mountain MFP - Grand Co. Utah

3. Effects on Environment by Proposed Action (potential impact)

Minor
- LOSS OF NATURAL VEGETATION

Minor
- DISTRACTION FROM THE AESTHETICS

- MINOR AIR POLLUTION CREATED BY DRILLING
VIB ENGINES AND SUPPORT TRAFFIC

Minor potential for accelerated
- ~~SOME~~ INDUCED EROSION CREATED BY LOCATION
↓ ACCESS ROAD CONSTRUCTION & SUPPORT TRAFFIC USE

Minor
- DISTURBANCE OF LIVESTOCK & WILDLIFE

4. Alternatives to the Proposed Action

NOT APPROVING THE A.P.D

NOT APPROVING THE A.P.D AND SUGGESTING
AN ALTERNATE LOCATION WHERE ENVIRONMENTAL
DAMAGES WOULD BE REDUCED.

NO LOCATIONS COULD BE FOUND THAT WOULD
JUSTIFY THIS ACTION

5. Adverse Environmental Effects Which Cannot Be Avoided

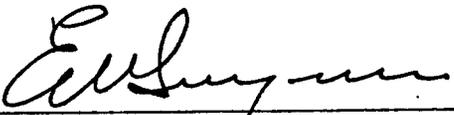
- ^{Minor} LOSS OF NATURAL VEGETATION
- MINOR AIR POLLUTION
- MINOR INDUCED EROSION
- DISTRACTION FROM AESTHETICS
- TEMPORARY DISTURBANCE OF LIVESTOCK & WILDLIFE

6. Determination

(This requested action (~~is~~) (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 4-14-76

Inspector WJY


U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
C C Co. #11-2 Govt.	647FEL, 3288FSL Sec 11, T 21 S, R 23 E SLM Grand Co. Utah Gr. El. 4473	U-16965
<p>1. Stratigraphy and Potential Oil and Gas Horizons. The surface formation is Mancos. Adak Energy Corp. in sec. 16, same township, reported the following tops: Dakota-746', Morrison-930', Salt Wash-1394', Summerville-1430', Entrada-1515'. The C C Co. #11-1A NWSE (Same Section) reports tops Dakota-740, Cedar Mtn.-924, Buckhorn-1085, Morrison- 1105, TD 1126.</p> <p>2. Fresh Water Sands. WRD reports from sec. 29, T. 20 S., R. 24 E. "Usable water, fresh or slightly saline, may occur in sandstone units of the Mancos Shale, Dakota Sandstone, and the conglomerate member of the Cedar Mtn. Shale. Moderately saline water occurs in the sandstones of the Morrison Formation in this area." Important water sands noted: Well-A. Lansdale #2 (Gr. El. 4430') sec. 10, between 1280'-1287', A. Lansdale #1-A (Gr. El. 4434') sec. 10 between 840'-871', and A. Lansdale #5 (Gr. El. 4444') sec, 10, between 874'-892'. Quality and quantity unknown</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) None. In bulletin 852 Fisher commented: "Inasmuch as the area embraced in Tps. 19,20, and 21 S., Rs. 22 and 23 E., and the southern part of T. 18 S., R. 23 E., contains no coal resources of any value, it is discussed as a unit for the sake of brevity."</p> <p>4. Possible Lost Circulation Zones. Unknown.</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Protect all fresh water aquifers.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Weathered shale will cave.</p> <p>8. Additional Logs or Samples Needed. None.</p> <p>9. References and Remarks Within 2 mile radius of KGS.</p>		
<p style="text-align: center;">UTAH STATE O & G</p> <p style="text-align: right;">ORIGINAL FORWARDED TO CASPER</p> <p>Date: May 18, 1976 Signed: B. R. Ault</p>		

Each permit is available for public inspection during normal business hours at the U.S. Fish and Wildlife Service's office in Suite 600, 1612 K Street NW., Washington, D.C.

Dated: April 27, 1976.

C. R. BAVIN,
Chief, Division of Law Enforcement
U.S. Fish and Wildlife
Service.

[FR Doc.76-12616 Filed 4-29-76;8:45 am]

Geological Survey
EARTHQUAKE STUDIES ADVISORY
PANEL

Notice of Public Meeting

Pursuant to Public Law 92-463, effective January 5, 1973, notice is hereby given that an open meeting of the Earthquake Studies Advisory Panel will be held beginning at 1:00 p.m. (local time) on Wednesday, June 2, 1976, and continuing through Thursday, June 3, 1976. The Advisory Panel will meet in the Crystal Room, White Winrock Motor Hotel, 18 Winrock Center, Albuquerque, New Mexico 87110.

(1) *Purpose.* The Advisory Panel was appointed to advise the Geological Survey on earthquake plans and programs which are conducted in cooperation with universities, industry, and other Federal and State government agencies in a coordinated national program for earthquake research.

(2) *Membership.* The Advisory Panel is chaired by Professor Frank Press and is composed of persons drawn from the fields of geology, geophysics, engineering, rock mechanics, and socio-economics, primarily from the academic community.

(3) *Agenda.* Review of the global seismic instrumentation, data services and budget initiatives.

For more detailed information about the meeting, please call Dr. Robert M. Hamilton, Chief, Office of Earthquake Studies, Reston, Virginia 22092 (703) 860-6472.

V. E. MCKELVEY,
Director, U.S. Geological Survey.

APRIL 26, 1976.

[FR Doc.76-12653 Filed 4-29-76;8:45 am]

[NTL-6]

FEDERAL AND INDIAN OIL AND GAS
LEASES

Approval of Operations

Notice is hereby given that the Geological Survey has formalized its procedures for approval of all applications for permits to conduct operational or construction activities on onshore Federal and Indian (except Osage) oil and gas leases. The Notice also prescribes the information which a lessee or operator must submit in support of applications to conduct operations.

On November 11, 1975, the Geological Survey published in the FEDERAL REGISTER

(Vol. 40, No. 218, pp. 52637-52640), a proposed Notice, NTL-6. Written and oral comments, suggestions, and objections received by the Geological Survey in response thereto have been carefully considered in the preparation of the final Notice. All written comments and notes concerning the oral comments are on file with the Geological Survey. Certain of the comments have been incorporated or essentially satisfied, and the Geological Survey has made other changes on its own motion. The principal changes are discussed below:

Definition. The approval authority of the Geological Survey is better defined. Osage Indian lands and operations conducted under 43 CFR 3045 are specifically excepted from this Notice.

Time Limits on Processing Applications. Provisions were added to guarantee U.S. Geological Survey action prior to lease expiration or within 30 days, whichever occurs first, or otherwise to advise lessees and operators concerning the delay. Also, a warning is added that a late filing will not automatically receive priority handling to the detriment of timely filed applications.

Definition of Lessees' and Operators' Responsibilities. Added provision for diligent development and efficient resource recovery. Reduced environmental constraints from "maximum" to "adequate" and "best available." Reduced lessee and operator responsibility for contractor and sub-contractor compliance from "all applicable laws and regulations" to only those regulations within the jurisdiction of the U.S. Geological Survey.

Oral Approvals. Added provisions that customary oral approvals may be continued. Added provisions to allow conduct of emergency work without prior approval subject to subsequent notification to the District Engineer.

Maps. The requirement for maps was clarified to reduce the number of maps and plats which must be filed. Also the type and scale of maps and plats were clarified to eliminate an apparent misconception that only U.S. Geological Survey topographic maps would be accepted.

Preliminary Environmental Review. Placed a review period of fifteen (15) days from the date of submitting the map filed for preliminary review. If not advised to the contrary by the end of the review period, the operator may assume there are no objections to entry on the land and may proceed with staking.

Privately-Owned Surface. Modified the requirement for filing rehabilitation agreements between the lessee or operator and the private landowner.

Application for Permit to Drill. The technical data requirements were clarified. Provided for availability of a copy of the approved permit and surface use plan at the drillsite without requiring that it be posted.

Multi-point Surface Use and Operations Plan. Added and clarified staking requirements. Added surface use planning to more stringently protect surface resource values and incorporated more stringent rehabilitation requirements.

Approval of Subsequent Operations. Specifically excepted routine work from the requirements of this Notice.

Water Well Conversion. Clarified the equipment left on the well solely because it is to be used as a water well to include both casing and wellhead equipment.

It is hereby certified that the economic impacts of Notice to Lessees and Operators, NTL-6, have been carefully evaluated in accordance with OMB Circular A-107.

V. E. MCKELVEY,
Director.

NOTICE TO LESSEES AND OPERATORS OF FEDERAL AND INDIAN ONSHORE OIL AND GAS LEASES (NTL-6)

Approval of Operations. In accordance with the National Environmental Policy Act of 1969 (83 Stat. 852), the United States Geological Survey must assure that operations on oil and gas leases under its jurisdiction are conducted with due regard for protection of the environment. All operations which are conducted on onshore Federal and Indian oil and gas leases must conform to the requirements of this Notice as well as those contained in the lease and in the Oil and Gas Operating Regulations, Title 30 CFR Part 221. Operations on Osage Indian oil and gas leases and exploration activities under Title 43 CFR 3045 are not included within the purview of this Notice.

As used in this Notice, the term "District Engineer" means that Officer of the United States Geological Survey who is the head of the District Office supervising operations in the geographic area in which the operation is located. In the State of Alaska, the Area Oil and Gas Supervisor will administer the requirements of this Notice. In some special instances, other Area Oil and Gas Supervisors will act on permit applications.

I. GENERAL

In order that the environmental impact of proposed operations may be properly evaluated, all applications to conduct leasehold operations or construction activities must be accompanied by an appropriate surface use plan. As a minimum, such applications and surface use plans must provide a detailed description of the technical aspects of the proposed operation or activity, the magnitude of surface disturbance involved, and the procedures to be followed in rehabilitating the surface once the operation or construction activity has been completed. Specific requirements in this regard are set forth in Sections II.B., III., and V. hereof. One copy of the surface use plan must be attached to each copy of the application to conduct operations or construction activities.

Applications to conduct operations or construction activities with attached surface use plans should be filed at least 30 days in advance of the contemplated starting date of any operation or construction activity in order to allow sufficient time in which to schedule and conduct, if necessary, a joint field inspection by appropriate personnel of the

Geological Survey, the Federal surface management agency, the lessee or operator; and, if practical, the lessee's operator's contractors and subcontractors who will perform the work. Any interested party who wishes may also attend the field inspection.

The early filing of a complete application is no guarantee that approval thereof will be granted within the 30-day period, as environmental considerations or the volume of applications in the affected Federal agencies may result in more than 30-day delay.

All applications will be processed as quickly as possible in all Federal agencies consistent with other work in the offices. In general, the processing of applications will be assigned a high priority and individual applications will be processed according to the date the complete application is filed. A higher priority due to an emergency, such as an imminent lease expiration date, will be duly considered but no special consideration will be given simply because a late filing is made. If it is not possible for Geological Survey action to be taken prior to lease expiration or within 30 days of the filing date, whichever occurs first, the lessee or operator will be advised both orally and in writing. Said advice will detail the reasons for the delay so that the lessee or operator may take such appeal or other recourse is allowed by law and/or regulation.

Lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which (1) results in diligent development and efficient resource recovery; (2) affords adequate safeguards for the environment; (3) results in the proper rehabilitation of disturbed lands; (4) assures the protection of the public health and safety; and, (5) conforms with the best available practice. In that regard, lessees and operators will be held fully accountable for their contractors' and subcontractors' compliance with the requirements of the approved permit and surface use plan.

All approvals of proposed operations as well as subsequent instructions and regulation thereof will be by the District Engineer of the Geological Survey. However, the Federal surface management agency will establish the rehabilitation requirements and will be available for consultation during rehabilitation operations. Names, addresses, and phone numbers of appropriate personnel of the Geological Survey and the Federal surface management agency, as well as approved surface use areas, will be furnished the lessee or operator with its approved copy of the permit and surface use plan.

Lessees and operators, as well as their contractors and subcontractors, must not commence any operation or construction activity on a lease without prior approval of the appropriate official of the Geological Survey. Said approvals may be oral in emergency situations or in instances such as subsurface plugging

programs for newly-drilled dry holes or features. Any oral approval so received must be followed by a written application and approval thereof for confirmation. Likewise, the terms and conditions of an approved permit and surface use plan may not be altered unless the Geological Survey has approved an amended or supplemental permit and/or plan covering any such modifications. Approval of subsequent operations is addressed in Section V. of this Notice.

II. DRILLING OPERATIONS

A. Preliminary Environmental Review.

A preliminary environmental review is required on all future drilling operations prior to entry on the ground for the purpose of staking the location, access roads, and other surface use areas. The lessee or operator, upon finalizing plans to drill but prior to the actual surveying, must file with the Geological Survey's District Engineer and the appropriate office of the involved Federal surface management agency, a topographic map, or such other map as is acceptable to the District Engineer, scale not less than 1 inch=1 mile which shows the preferred location and the general topographic features in the area. This will permit the Federal surface management agency, prior to the lessee's or operator's expenditure of time and money for surveys, to review its records for any potential conflicts with other resource values. If conflicts are noted, a joint conference or field inspection, as appropriate, by the Geological Survey, the Federal surface management agency, the lessee or operator, and other interested parties may be scheduled to resolve problem areas. If the lessee or operator has not been advised to the contrary within 15 days from the date of submitting the preliminary map, it may assume that there are no objections to entry on the land for the purpose of required surveying and staking and may proceed accordingly. It is anticipated that the need for a joint field conference and/or inspection prior to staking will be very unusual.

B. Application for Permit to Drill.

Drilling operations must not be conducted without a permit which has the prior approval of the District Engineer. Although multiple wells may be covered in a single surface use plan, the application for permit to drill must be submitted on an individual well basis.

The permit application filed for approval will consist of Form 9-331C (Application for Permit to Drill, Deepen, or Plug Back) and a multi-point surface use and operations plan. Where private surface is involved, it should also include a copy of the written agreement between the lessee or operator and the surface owner, a letter from the lessee or operator setting forth the rehabilitation requirements agreed to with said owner, or a letter stating the reasons why such agreement is not obtainable. The requirements for surface use and operations plans and the rehabilitation of private surface are contained in Sections III. and VI., respectively, of this Notice.

The application for permit to drill must provide information concerning location, as determined by a registered surveyor, in feet and direction from the nearest section lines of an established public land survey or, in areas where there are no public land surveys, by such other method as is acceptable to the District Engineer; (2) the elevation above sea level of the unprepared ground; (3) the geologic name of the surface formation; (4) the type of drilling tools and associated equipment to be utilized; (5) the proposed drilling depth; (6) the estimated tops of important geologic markers; (7) the estimated depths at which anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered; (8) the proposed casing program including the size, grade, and weight of each string and whether it is new or used; (9) the proposed setting depth of each casing string and the amount and type of cement (including additives) to be used; (10) the lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency; (11) the type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained; (12) the testing, logging, and coring programs to be followed with provision made for required flexibility; (13) any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as hydrogen sulfide gas, along with plans for mitigating such hazards; (14) the anticipated starting date and duration of the operation; and, (15) any other facets of the proposed operation which the lessee or operator wishes to point out for the Geological Survey's consideration of the application. The District Engineer will require additional information as warranted.

A copy of the approved application for permit to drill and the accompanying surface use and operations plan along with any conditions of approval shall be available to authorized personnel at the drillsite whenever active construction or drilling operations are underway.

III. MULTI-POINT SURFACE USE AND OPERATIONS PLAN

A surface use and operations plan in sufficient detail to permit a complete appraisal of the environmental effects associated with the proposed project must be submitted, in triplicate, to the District Engineer with the application for permit to drill.

The Geological Survey will send a copy of such plan to the Federal surface management agency. When possible, a preliminary field development plan or drilling schedule concerning the lessee's or operator's plans for additional development should also be submitted to allow lead time for evaluating environmental considerations, resource conflicts, and land use planning alternatives.

The surface use and operations plan shall, in its context, provide for adequate protection of surface resources, other environmental components, and include adequate measures for rehabilitation of disturbed lands. The plan shall be developed in conformity with the provisions of the lease, attached stipulations, and the guidelines provided by this Notice. In developing the plan, the lessee or operator will make use of such information as is available from the Federal surface management agency concerning the surface resources, environmental considerations, and local rehabilitation procedures. The plan will be reviewed for adequacy by the Geological Survey and the Federal surface management agency. The Geological Survey will act as the lead agency in assessing the effects of the plan. If the plan is considered inadequate, the Geological Survey will, in consultation with the Federal surface management agency, require modification or amendment of the plan or otherwise set forth such stipulations or conditions of approval as are necessary for the protection of surface resources and environment, including rehabilitation of the disturbed areas.

A. Guidelines for the preparation of surface use and operations plan. In the preparation of surface use and operations plans, the lessees and operators should submit maps, facility layouts and narrative descriptions which adhere closely to the following:

1. Existing roads. A legible map (USGS topographic, county road map, or such other map as is acceptable to the District Engineer and the Federal surface management agency) shall be used for locating the proposed well site in relation to a town or other locatable reference point. The proposed route to the location including appropriate distances from the reference point to the point where the access route exits the highway or county road shall be shown. All proposed access roads shall be appropriately labeled or color coded. Additionally, all existing roads within a radius of three miles (including information relative to the type of surface, condition, and load capacity) from the location of a proposed exploratory well should be shown. For the purpose of this Notice, an exploratory well is defined as a well which is located two miles or more from the boundary of a Known Geologic Structure (as such term is defined by USGS) or a producible well. For all other drillsites (development wells), existing roads within a one-mile radius of the location should be shown.

Any plans for the improvement and/or maintenance of existing roads should also be stated.

Information required by item Nos. 2, 3, 4, 5, 6, 7, and 9 of this subsection may also be shown on this map if appropriately labeled.

2. Planned access roads. Information in this regard is to be submitted on a map of suitable scale and shall appropriately identify all permanent and temporary access roads that are to be constructed, or reconstructed in connection with the

drilling and production of the proposed well. Width, maximum grade, turnouts, drainage design, location and size of culverts, and surfacing material, if any, shall be stated. At the time of submittal, the center line location of all proposed new or reconstructed roads shall be staked with the stakes being visible from any one to the next. However, modification of proposed road design may be required after the location is accepted for drilling. If the well is completed for production, final road design and construction will depend on the amount and type of hydrocarbon found by the well. Information should also be furnished to indicate where existing fences will be cut and whether gates or cattleguards will be used. Additionally, the discussion should make reference to any existing gates which are to be replaced by cattleguards. Cattleguards which are installed or replaced must be designed to adequately carry anticipated loads.

3. Location of existing wells. This information should be submitted on a map of suitable scale and include all wells (water, abandoned, temporarily abandoned, disposal, and drilling) within a two-mile radius of the proposed location of an exploratory well and all wells (water, producing, abandoned, temporarily abandoned, shut-in, injection, disposal, and drilling) within a one-mile radius of the proposed location of a development well.

4. Location of tank batteries, production facilities, and production, gathering, and service lines. Existing tank batteries, production facilities, and production, gathering, or service lines within a one-mile radius of the proposed location which are owned or controlled by the lessee or operator should be shown on a map or plat of suitable scale. The type of each present facility and the exact nature of each existing line (oil flow line, gas gathering line, injection line, or water disposal line) should be identified and it should be noted which, if any, of said lines are buried. If new facilities (tank battery, other production equipment, and lines) are contemplated in the event production is established and those facilities are to be located at other than on the well site itself, the map or plat furnished in this regard must also indicate the location of all proposed new facilities. The dimensions of these facilities, the proposed construction methods and materials, and the protective measures and devices to be employed to minimize hazards to livestock, waterfowl, and other wildlife will be stated. The approximate center locations of all production facility locations and the center lines of proposed gathering and service lines will be staked. A plan for rehabilitation of all disturbed areas no longer needed for operations and maintenance will also be submitted. Future prospects for additional development of the leasehold should be considered in the siting of new facilities. However, final approval to construct such new facilities will not be granted until after detailed plans have

been submitted and evaluated pursuant to Section V. hereof.

5. Location and type of water supply (rivers, creeks, lakes, ponds, and wells). This information may be shown by quarter-quarter section on a plat or map of suitable scale or may be a written description. The source of all water to be used in drilling the proposed well must be noted if located on Federal or Indian land or if water is to be used from a Federal or Indian project. The method of transporting the water shall be stated, and any access roads crossing Federal or Indian land needed to haul the water will be described in item Nos. 1 or 2, as appropriate. However, the Survey's approval of the surface use and operations plan does not relieve the lessee or operator from obtaining any other authorization which may be required for the use of such water. Moreover, if a water supply well is to be drilled on the lease, it must be so stated under this item, and the District Engineer may require the filing of a separate application for permit to drill.

6. Source of construction materials. This information may be shown by quarter-quarter section on a plat or map of suitable scale or may be a written description. The proposed source (if located on Federal or Indian land), character, and use of all construction materials such as sand, gravel, stone, and soil material should be stated. Any access roads crossing Federal or Indian land needed to haul such materials should be described in items Nos. 1 or 2, as appropriate.

7. Methods for handling waste disposal. A brief, written description should be given of the methods and location proposed for safe containment and disposal of each type of waste material (cuttings, garbage, salts, chemicals, and sewage) which results from the drilling of the proposed well. Likewise, the narrative should include plans for the eventual disposal of drilling fluids and any produced oil or water recovered during testing operations.

8. Ancillary facilities. The plans or subsequent amendments to such plans shall identify all ancillary facilities such as camps and airstrips as to their location, land area required, and the methods and standards to be employed in their construction. Such facilities shall be shown on a map of suitable scale. The approximate center of proposed camps and the center line of airstrips shall be staked on the ground.

9. Well site layout. A plat of suitable scale (not less than 1 inch=50 feet) including cross section diagrams of the drill pad showing all cuts and fills and the relation to topography are required. The plat should also include the proposed location of the mud tanks, pits (reserve, burn, and trash), pipe racks, access roads, turnaround areas, parking areas, living facilities, soil material stockpiles, and the orientation of the rig with respect to the pad and other facilities. Plans, if any, to line the reserve pit should be indicated.

Until such time as the location is approved, it will be necessary to stake only the actual location of the well. After approval and before construction commences, the exterior dimensions of the pad and reserve pit will be staked on the ground. The stakes should be appropriately marked to indicate proper cuts and fills to the dirt contractor.

10. *Plans for restoration of the surface.* State the proposed program for surface restoration upon completion of the operation such as determination of the reshaped topography, drainage system, segregation of spoils materials, surface manipulations, waste disposal, revegetation methods, soil treatments, and amendments, plus other practices necessary to rehabilitate all disturbed areas including any access roads no longer needed. Such plans will be reviewed for adequacy by the appropriate Federal surface management agency. A proposed timetable for the commencement and completion of rehabilitation operations must be provided.

11. *Other information.* Include a general description of the topography, soil characteristics, formation lithologies, geologic features, flora, fauna, and other aspects of the area such as other surface use activities. The surface ownership (Federal, Indian, State, or private) at the well location and for all lands which are to be crossed by newly constructed or upgraded roads should be indicated.

Any other available information which is considered by the lessee or operator as being useful to the Geological Survey and Federal surface managing agency in evaluating the environmental impact of the proposed operation, including proximity to steep hillsides and gullies, water wells, ponds, lakes, or streams, occupied dwellings or other facilities, and archeological, historical, or cultural sites, should be included.

Information concerning required cuts and fills during the construction of roads and the location and all construction practices necessary to accommodate potential geologic hazards should be discussed under the appropriate items of the plan.

12. *Lessee's or operator's representative.* Include the name, address, and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

13. *Certification.* The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in item No. 12 of the plan:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by

----- and its contractors and subcontractors in conformity with this plan

and the terms and conditions under which it is approved.

(Date) (Name and title)

IV. ENVIRONMENTAL ANALYSIS REQUIREMENTS

If a preliminary inspection was not made prior to staking, an onsite inspection will normally be required following the filing of the application for permit to drill. If made, it will include representatives of the District Engineer, the lessee or operator, the Federal surface management agency, and such other interested parties as the lessee's or operator's dirt contractor. The purpose of this inspection will be to select the most feasible and environmentally acceptable areas for well sites (considering geologic factors and Federal and State regulations), access roads, and other proposed surface use areas. Accordingly, lessees and operators are encouraged to designate their future development or drilling sites so that several locations may be inspected at one time.

When such an inspection is made, an Environmental Analysis will usually be prepared by the office of the District Engineer. Said analysis will identify methods for mitigating the potential adverse environmental effects associated with the proposed operation and will be the basis of the approving official's determination as to whether approval of the proposed activity would constitute a major Federal action significantly affecting the quality of the human environment as defined by Section 102(2)(C) of the National Environmental Policy Act of 1969. Any surface protection and rehabilitation requirements specified by the Federal surface management agency will normally be made a part of any subsequently approved permit and/or the surface use and operations plan.

Due to the O probability of an onsite in-

Due to the probability of an onsite inspection, the required input from other Federal agencies, and the variations in the level of drilling activity, lessees and operators are encouraged to file applications well in advance of the time when it is desired to commence operations.

V. APPROVAL OF SUBSEQUENT OPERATIONS

Before repairing, deepening, or conditioning a well, i.e., work that will involve change in the original or plugged back depth, casing arrangement, and/or present producing interval(s) including separation or commingling, a detailed written statement of the plan of work must be filed on Form 9-331A or 9-331C with the District Engineer and approval obtained before the work is started. Any proposed change in any such plan of work must also receive the prior approval of the District Engineer. Routine well work such as pump, rods, tubing and surface production equipment repairs will not require submittal of Form 9-331A unless specifically required by the District Engineer.

Lessees and operators are also required to submit for the approval of the District Engineer a suitable plan prior to under-

taking any subsequent new construction, reconstruction, or alteration of existing facilities, including roads, dams, lines or other production facilities on any lease when additional surface disturbance will result. However, emergency repairs may be conducted without prior approval provided that prompt notification is provided to the District Engineer. Sufficient information must be submitted to permit a proper evaluation of the proposed surface disturbing activities as well as any planned accommodations necessary to mitigate potential adverse environmental effects.

The environmental analysis procedures discussed in Section IV of this Notice will also apply to such subsequent operations which have the potential for significant surface disturbance although these requirements may be somewhat less in established producing areas.

VI. AGREEMENT FOR REHABILITATION OF PRIVATELY-OWNED SURFACE

Where the surface is privately owned or is held in trust for Indian benefit, each application for permit to drill or to conduct other surface disturbance activities, shall contain information concerning the private surface owner's or Indian rehabilitation requirements. A written agreement between the lessee or operator and the surface owner is not necessary if a letter from the lessee or the operator setting forth the surface owner's rehabilitation requirements is furnished. In those cases where it is impossible or impractical to obtain the private surface owner's or Indian rehabilitation requirements, a letter from the lessee or operator describing the situation will be acceptable. Payment of damages in lieu of full restoration will not be an acceptable substitute for a normal cleanup and rehabilitation program.

If no arrangements have been made, or if information concerning such arrangements is not furnished, the District Engineer will request the appropriate Federal agency to recommend the necessary surface restoration requirements. In such cases, the lessee or operator will be expected to comply with these rehabilitation requirements, if any, regardless of the arrangement made with the surface owner. *Provided, however,* That subsequent reasonable requests by the surface owner that pits, roads, and other facilities be left intact may be honored. If written proof of prior arrangements has been provided, the appropriate Federal agency will be asked to recommend surface rehabilitation requirements to the District Engineer giving full consideration to the preferences of the landowner.

VII. WELL ABANDONMENT

No well abandonment operations may be commenced in the absence of the prior approval of the District Engineer. In the case of newly drilled dry holes or failures and in emergency situations, oral approval may be obtained from the District Engineer subject to confirmation by written application. For existing wells not having an approved surface use plan,

a sketch showing the disturbed area and roads to be abandoned along with rehabilitation plans must be submitted with the application. However, the Federal surface management agency may request additional surface rehabilitation measures at abandonment and, these requirements are normally made a part of the Geological Survey's approval of abandonment. Upon completion of the abandonment and rehabilitation operations, the lessee or operator should notify the District Engineer that the location is ready for inspection usually via an additional Sundry Notice. Final abandonment will not be approved until the surface rehabilitation work required by the drilling permit or abandonment notice has been completed and the required vegetation is established to the satisfaction of the appropriate Federal surface management agency.

VIII. WATER WELL CONVERSION

The complete abandonment of a well which has encountered usable fresh water will not be approved if the Federal surface management agency wants to acquire the well. If, at abandonment, the Federal surface management agency elects to assume further responsibility for the well, it will reimburse the lessee or operator for the cost of any recoverable casing or well head equipment which it requests to be left in or on the hole solely because it is to be completed as a water well. The lessee or operator will abandon the well to the base of the deepest fresh water zone of interest as required by the District Engineer and will complete the surface cleanup and rehabilitation as required by the drilling permit or abandonment notice immediately upon completion of the conversion operations.

[FR Doc.76-12618 Filed 4-29-76;8:45 am]

DEPARTMENT OF AGRICULTURE

Animal and Plant Health Inspection Service "SMOKED" WITH MEAT AND POULTRY PRODUCTS

Use of Term; Solicitation of Information

• *Purpose:* This notice is to solicit information and opinions about the meaning of the term "smoked" when used on the labeling of meat and poultry products. •

Basically, the Department wishes to determine whether the consumer interprets the term "smoked" on the labeling of meat and poultry products to mean that:

(1) The product has been subjected to smoke resulting directly from burning wood which imparts to the finished product certain characteristics, such as a brownish color and a unique aroma and flavor, or

(2) The finished product possesses the expected characteristics of color, aroma, and flavor without regard to the process involved.

The reader may wish to consider these questions before proceeding further. However, to shed additional light

on the matter, further discussion is offered.

Deposition of smoke onto meat and poultry products imparts certain properties, including color, aroma, and flavor, which have consumer appeal. Historically, the process included burning wood and exposing the meat or poultry to the smoke produced therefrom. In more recent times, methods were devised to produce smoke from wood by friction. Although the intensity of smoke on a product has not been specified, to use the term "smoked" on a product label for a federally inspected meat or poultry product, the item must have been subjected to such a smoking process, and must have acquired some degree of the appearance, texture, odor, and taste characteristics usually associated with smoked products.

Within the past few years, technology has made possible the manufacture of an artificial liquid smoke flavoring product containing chemical components simulating the color, aroma, and flavor characteristics of smoke. When used in meat or poultry products, their names are modified with the term "Artificial Smoke Flavor Added." In addition to the synthesized liquid, a natural liquid smoke product is also produced. It is prepared by burning wood and trapping and condensing the smoke into a liquid. The liquid is then filtered to remove many of the undesirable components, such as tars and solid particles. This seemingly does not destroy its ability to accomplish the desired effect of imparting a smoked color, aroma, and flavor to products. Meat and poultry products containing such a substance are required to be labeled with the terms "Smoke Flavored" or "Smoke Flavoring Added." In 1968, the Department approved labeling for meat and poultry products bearing the term "smoked" which had been subjected to the traditional smoking process and which also contained the natural liquid smoke product.

At the present time, there are at least two general methods for applying the condensed liquid smoke, produced from the burning of wood, to meat and poultry. The first method involves spraying or dripping liquid smoke directly onto a heating element which instantly converts the liquid droplets into a gas. Meat and poultry products are then exposed to this smoke to acquire the usual smoked characteristics.

The second method involves the use of air pressure and jet nozzles which break the liquid smoke into minute droplets so they are suspended in the air much like atmospheric fog. Meat and poultry products are exposed to this treatment to take on the usual smoke characteristics.

An initial evaluation led the Department to conclude that meat and poultry products exposed to the smoke vapor produced by the first method could be labeled "smoked" while that treated by the second method could not. The Department's evaluation was heavily influenced by the traditional considerations that the term "smoked" carried a connotation

that a particular process of exposing meat or poultry to "smoke" (in a gaseous phase) was used, and that, as a result of such exposure, the meat or poultry product acquired the usual smoked characteristics. Subsequent discussions on this matter resulted in the realization that there are variances in opinions on the subject, and this has led to the need for publication of this notice.

In connection with the use of liquid smoke, there are at least two other issues which the public should be aware of and have an opportunity to consider prior to offering comment. First, employing any of the methods using natural liquid smoke may offer the processor some advantages as far as sanitation of the smoking facilities is concerned. This reportedly is due to the absence of many of the tars from the liquid smoke. The second advantage involves environmental considerations, since there supposedly is less evacuation of pollutants into the atmosphere than with the natural wood burning processes. This latter advantage has gained particular attention in municipalities having strict ordinances on air pollution.

Therefore, in view of all these considerations, the Department is soliciting public comments with respect to the meaning of the term "smoked" when used on the labeling of meat and poultry products. Specifically, we invite answers to the following questions:

Shall the term "smoked" be limited to use in labeling for those products which:

1. Were exposed to natural smoke produced by the burning of wood, or
2. Were exposed to natural liquid smoke transformed into a dense fog-like atmosphere by mechanical means, or
3. Were exposed to natural liquid smoke transformed into a gas by the direct application of heat, or
4. Have the color and flavor characteristic of a smoked product regardless of how they are achieved, and
5. Shall the provisions under 2, 3, and 4 apply to application of artificial liquid smoke products as well without specific label declaration on the origin of the substance used to produce "smoke"?

Any person wishing to submit written data, views, or arguments concerning this matter may do so by filing them, in duplicate, with the Hearing Clerk, U.S. Department of Agriculture, Washington, D.C. 20250, or if the material is deemed to be confidential, with the Product Standards Staff, Technical Services, Meat and Poultry Inspection Program, Animal and Plant Health Inspection Service, U.S. Department of Agriculture, Washington, D.C. 20250, by June 29, 1976.

Any person desiring opportunity for oral presentation of views should address such request to the Staff identified in the preceding paragraph, so that arrangements may be made for such views to be presented prior to the date specified in the preceding paragraph. A record will be made of all views orally presented.

All written submissions and records of oral views made pursuant to this notice will be made available for public inspection.

U. S. Geological Survey
125 South State Street
Salt Lake City, Utah 84111

February 11, 1970

Attn: Mr. Ed Givnn
District Engineer

RE: CCCo-Helen C. Gov't 11-2-
Sect. 11, T21S, R23E
Grand County, Utah

Gentlemen:

Application for permit to drill for CCCo, a Utah Corporation in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 11, T21S, R23E, S.L.M., Grand County, Utah is set forth on Form 9-331 C. This letter will set forth the twelve (12) point program and further details in support of the application.

1. Existing roads: The attached copy of the U.S.G.S. Topo map indicates the main highways, state and county roads in the immediate area. Existing roads come to within 100 ft of the location of the CCCo-Cookie C. Gov't 11-2.
2. Planned access roads: A road currently exists to the proposed location.
3. Location of existing wells: Shown on the U.S.G.S. Topo Map.
4. Lateral Roads: Covered in 1 and 2.
5. Location of future tank batteries: See attached diagram of CCCo-Adak 11-1A well. Any additional tanks will be set due east of the present tank for the CCCo 11-1A.
6. Water Supply: A fresh water supply may be obtained from Cisco springs, 8 miles north-east.
7. Waste disposal: Liquid wastes will go into the reserve pit. Solid wastes will be hauled away from the location when drilling is completed.
8. Location of camp: Not Required
9. Location of Air Strip: Not required.
10. Rig layout: Refer to plat of rig layout.

POOR COPY

U.S.G.S
February 11, 1976
Twelve Point Program

11. Surface restoration: When drilling has been completed, and equipment has been removed from the location, the surface area will be graded and restored as per BLM instructions. A well location sign with the necessary well information will be posted and lease maintained. The area will be reseeded.

12. Other Information: See the attached seven (7) point well completion program.

Sincerely,



Dean H. Christensen
General Manager

POOR COPY

7-POINT WELL COMPLETION PROGRAM

1. Casing

Operator will set and cement 6 joints of J55, 26.4# 7 5/8" surface casing into the calcareous shale zone of the mancos shale. A string of 4 1/2" production casing 9.5# will be run from surface to total depth and cemented through the nav zone. An oil saver tool will be used for logging and perforating and for swabbing if necessary.

2. Casing head and flanges

A Henderliter wellhead will be installed on the 4 1/2" casing. The complete head is a S W type 4 1/2-2 3/8" with two 2" line pipe outlets, tested to 2000#. A 2" 2000# high pressure gate valve will be installed on the 2 3/8" tubing and a permanent line choke installed on the flow line to the separator. The 7 5/8" surface casing will be flanged to receive a Regas Torous B.O.P. and Puker Acme rotating head.

3. Intermediate Casing.

Not Required.

4. Blowout Preventer

Drilling Contractor will install a Regas Torous B.O.P. or equivalent. The Regas B.O.P. is a gas operated bag type tested to 6000# with two 2" fill and kill line stubbed into the 7 5/8" casing

5. Auxilliary Equipment

A 3 1/2" sub with 2" valve outlet will be stabbed into the drill pipe for testing and cementing.

6. Bottom Hole Pressure

Some wells in the Cisco area have encountered high pressures for shallow depth wells. The operator is prepared to handle pressures up to 800#.

7. Drilling Fluids

The operator will drill surface hole with gel base drilling mud. Compressed air and air mist will be utilized as a circulating medium until water or oil is encountered -- at such time weighted drilling mud up to 15 lbs per gallon if required, will be used to drill the balance of the hole, run casing, and logging.



DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: UTAH OFFICE BLM
SERIAL NO.: U-16965

and hereby designates

NAME: CCCo
ADDRESS: 2723 Melbourne Street
Salt Lake City, Utah 84106

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

OPERATING AGREEMENT DATED 23 July 1975 FILED WITH THE
UTAH STATE OFFICE OF THE BUREAU OF LAND MANAGEMENT
MARCH 2, 1976

ACREAGE COVERED: TOWNSHIP 21 SOUTH, RANGE 23 EAST, S. L. M.
Section 5: S $\frac{1}{2}$
Section 11: S $\frac{1}{2}$, E $\frac{1}{2}$ NE $\frac{1}{4}$

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

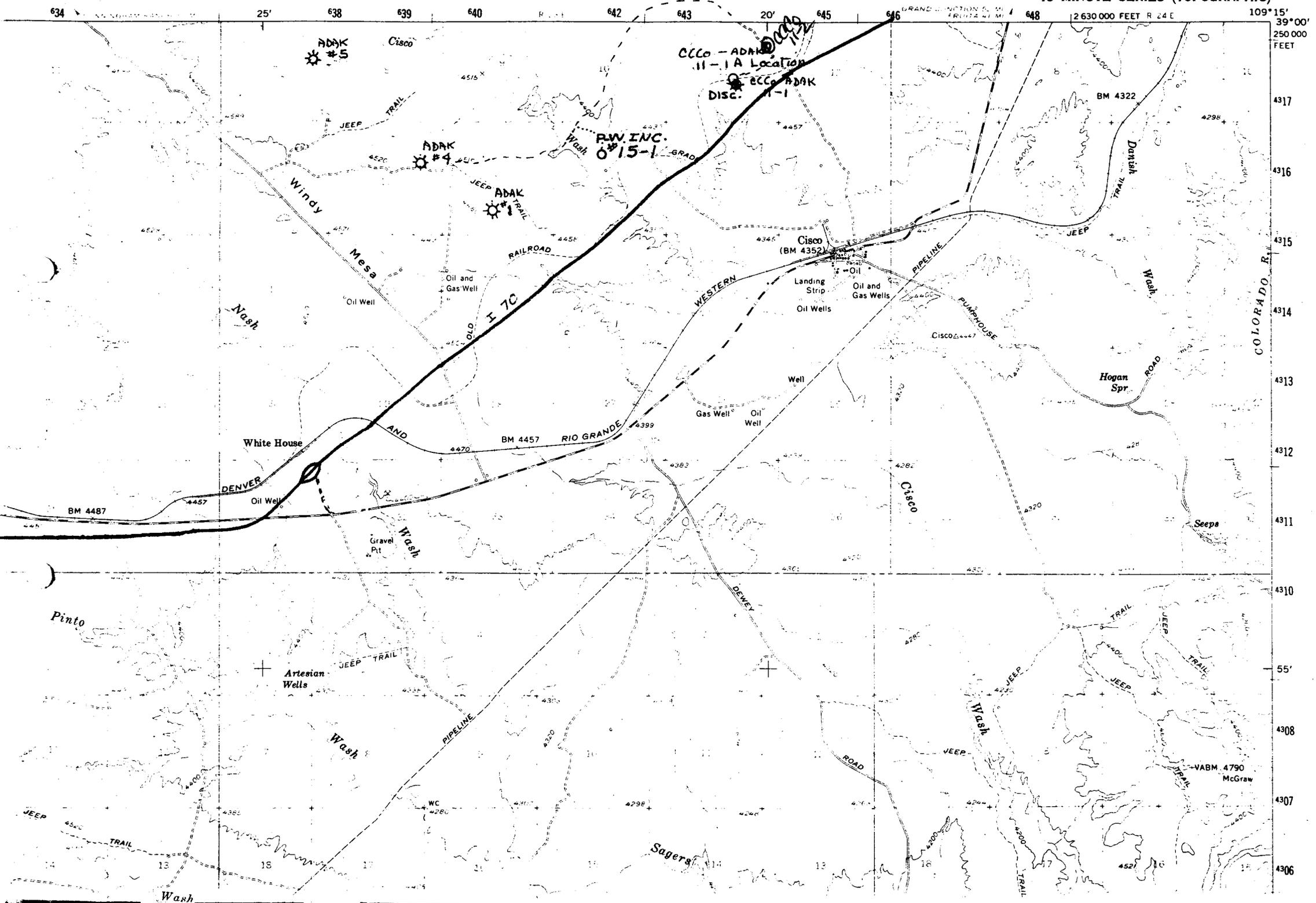
The lessee agrees promptly to notify the supervisor of any change in the designated operator.

.....
(Signature of lessee)

.....
(Date)

.....
(Address)

634 25' 638 639 640 642 643 20' 645 646 GRAND DIVISION S. M. 2630 000 FEET R 24 E 109° 15' 39' 00" 250 000 FEET



ADAK #5

COCO - ADAK II - I A LOCATION
COCO - ADAK DISC. II - I

ADAK #4

RW. INC. 0 15-1

ADAK #1

Cisco (BM 4352)

White House

Hogan Spr

Artesian Wells

VABM 4790 McGraw

Sagers

Wash

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

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.
U-16965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
0000-Adak

9. WELL NO.
0000-Helen C. 11-2

10. FIELD AND POOL, OR WILDCAT
Cisco Area

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA
Sec 11, T21S, R23E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

0000

3. ADDRESS OF OPERATOR

2723 Melbourne Street

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

647' West of the East Line, 3288' North of
the South Line, Section 11, T21S, R23E, SLB&M, Grand County

14. PERMIT NO.

43-019-30280

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

4473 or

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

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

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

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(Other) Notice of Spudding

(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 perti-
nent to this work.)*

Notice of Spudding. Jacobs Drilling, Grand Junction, Colorado spudded the
rat-hole for the above reference well 19 August 1976.

Mobile Phone on location 303-245-3660 unit 408

THE DIVISION OF
MINING

August 23, 1976

P. H. Ansell

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

SIGNED Alan J. Clark TITLE General Manager

DATE August 19, 1976

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

DATE _____

CIRCULATE TO:

DIRECTOR -----
PETROLEUM ENGINEER -----
MINE COORDINATOR -----
ADMINISTRATIVE ASSISTANT -----
ALL -----

RETURN TO Kathy *K*
FOR FILING

August 31, 1976

MEMO FOR FILING:

Re: C.C. Company
Helen C.-Gov't. 11-2
SE 1/4 NE 1/4
Sec. 11, T. 21 S, R. 23 E.
Grand Co., Utah

Verbal approval to plug and abandon this well was given to J.N. Burkhalter on August 29, 1976.

A 100' plug will be place across a water zone within the 800' to 900' interval. A 50' plug will be placed at the base of the surface casing; half in and half out. The top of the surface casing will have a 5 sack cement plug and the regulation marker will be erected.

[Signature]
PATRICK L. DRISCOLL
CHIEF PETROLEUM ENGINEER

PLD/tlb

cc: U.S. Geological Survey

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER U-16965
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH County GRAND Field UNDESIGNATED (CISCO AREA)

The following is a correct report of operations and production (including drilling and producing wells) for the month of AUGUST, 19 76.

Agent's address 2160 Panorama Way Company CC&O

Holladay, Utah 84117 Signed [Signature]

Phone 278-4545/278-8100 Agent's title General Manager/V-Pres

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
Sect 11 NW SE	21S	23E	11-1	31	2,555.19	35.0	none	none	none	
Sect 11 SE NE	21S	23E	11-2	-0-	-0-	-0-	-0-	-0-	-0-	Drilling commenced 23 August 1976. P&A 29 August 1976.
Sect 5 NW SW	21S	23E	5-2	-0-	-0-	-0-	-0-	-0-	-0-	180' surface casing set awaiting rig. Location resurveyed copy sent to Salt Lake Office USGS.

GAS: (MCF)

Sold -0-
Vented/Flared -0-
Used On Lease -0-
Lost -0-
Reason _____

OIL or CONDENSATE: (Barrels)

Sold 2555.19
Used -0-
Unavoidably Lost -0-
Reason _____

WATER DISPOSITION (Bbls.):

Pit none
Injected -0-
Unavoidably Lost -0-
Reason _____
Other _____

TOTALS

NOTE.—There were 14 runs or sales of oil; no M cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPL. 3*

(See other instructions on reverse side)

Form approved
Budget Bureau No. 42-R355.5

5. LEASE DESIGNATION AND SERIAL NO.

U-16965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

CC Co

9. WELL NO.

CC Co-Helen C. Gov't 11-2

10. FIELD AND POOL, OR WILDCAT

Cisco Area

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

Sec. 11, T21S, R23E, SLB&M

12. COUNTY OR PARISH

Grand

13. STATE

Utah

1a. TYPE OF WELL:

OIL WELL GAS WELL DRY

b. TYPE OF COMPLETION:

NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR.

2. NAME OF OPERATOR

CC Co

3. ADDRESS OF OPERATOR

2160 Panorama Way, Holladay, Utah 84117

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

At surface 647' FEL, 3288' FSL

At top prod. interval reported below same

At total depth

14. PERMIT NO.

DATE ISSUED

43091-30280 | 5/19/76

15. DATE SPUDDED

8/22/76

16. DATE T.D. REACHED

8/29/76

17. DATE COMPL. (Ready to prod.)

P&A 8/29/76

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

4473 GR; 4482 KB

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

1296

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

0-1296

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

P&A

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

IES-GR; FDC-CNL

27. WAS WELL CORED

No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7 5/8"	26.40	180' KB	8 3/4"	65 sx G w/ 2% CaCl2 circulated	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
none				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
none		

31. PERFORATION RECORD (Interval, size and number)

none

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
none	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
none-P&A							
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED

Dean A. Christ TITLE *Vice Pres*

DATE

9/10/76

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions.

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
All measured from KB Dakota Buckhorn Salt Wash Sand	767 1000 1244	860 1022 1259	small amt. of gas, salty water small amt. oil, water Good Oil show, but water-wet
			Graneros "A" zone
			MEAS. DEPTH TOP 731 731 TRUE VERT. DEPTH

PI
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-16965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

CC Co

9. WELL NO.

CC Co-Helen C. Gov't 11-2

10. FIELD AND POOL, OR WILDCAT

Cisco Area

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

Sec. 11, T21S, R23E, SLB&M

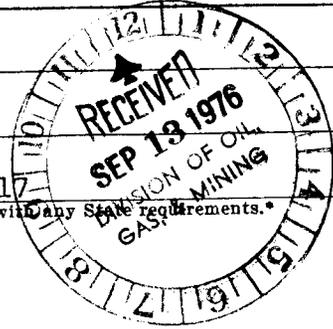
12. COUNTY OR PARISH 13. STATE

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 Dry Hole

2. NAME OF OPERATOR
CC Co

3. ADDRESS OF OPERATOR
2160 Panorama Way, Holladay, Utah 84117

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

647' FEL, 3288 FSL

14. PERMIT NO.

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

4473 GR; 4482 KB

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"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <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.)*

8/29/76 set plugs as follows: 625' to 890' 50 sx class G
150' to 300' 40 sx class G across bottom of surface at 180.
10 sx at surface with marker

Filling pit, cleaning up location.

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

SIGNED Reagan Christ TITLE U-P DATE 9/10/76

(This space for Federal or State office use)

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

K
FORM OGC-8-X
FILE IN QUADRUPPLICATE



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number CC CO - Helen C. Gov't. 11-2

Operator CC Co.

Address 2160 Panorama Way, Holladay, Utah 84117

Contractor Jacobs Drilling Co.

Address 405 W. Mayfield Dr, Grand Junction, Colorado 81501

Location SE 1/4, NE 1/4, Sec. 11 ; T. 21 S; R. 23 W; Grand County

Water Sands:

	Depth:		Volume: Flow Rate or Head -	Quality: Fresh or Salty "
	From-	To-		
1.	840	850 KB	Est 40 to 50 BWPD	Salty
2.				
3.				
4.				
5.				

(Continue on Reverse Side if Necessary)

all measures KB - Elev 4482

Formation Tops:
Dakota 767
Buckhorn 1000
Morrison 1022

- NOTE: (a) Upon diminishing supply of forms, please inform this office.
(b) Report on this form as provided for in Rule C-20, General Rules And Regulations and Rules of Practice and Procedure.
(c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.