

FILE NOTATIONS

Entered in NID File _____
Entered On S R Sheet _____
Location Map Pinned _____
Card Indexed _____
IWR for State or Fee Land _____

Checked by Chief _____
Copy NID to Field Office _____
Approval Letter _____
Disapproval Letter _____

COMPLETION DATA:

Date Well Completed _____
OW _____ WW _____ TA _____
GW _____ OS _____ PA _____

Location Inspected _____
Bond released _____
State of Fee Land _____

LOGS FILED

Driller's Log _____
Electric Logs (No.) _____

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____
Log _____ MI-L _____ Sonic _____ Others _____



COSEKA RESOURCES (U.S.A.) LIMITED

718 17th STREET, SUITE #630, DENVER, COLORADO 80202 (303) 573-6178

May 19, 1980

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

Re: Crooked Canyon
#10-10-14-23
Sec. 10-T14S-R23E
Uintah Co., Utah

Gentlemen:

Enclosed, in triplicate, is the Application for Permit to Drill for the above referenced well along with the Survey Plat and Geological Prognosis.

Thank you.

Very truly yours,

COSEKA RESOURCES (U.S.A.) LIMITED

Brenda J. Groghan

Brenda J. Groghan
Production Secretary

/bg

Enclosures

RECEIVED
MAY 21 1980

DIVISION OF
OIL, GAS & MINING

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
Coseka Resources (U.S.A.) Limited

3. ADDRESS OF OPERATOR
718 17th Street, Suite 630, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface 2025' FNL, 2173' FEL, Sec.10,T14S,R23E S.L.B.&M.
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
54.9 Miles from Ouray, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
2025'

16. NO. OF ACRES IN LEASE
2,560.00

17. NO. OF ACRES ASSIGNED TO THIS WELL
360'

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

19. PROPOSED DEPTH
9,787'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
6681' Ungr.

22. APPROX. DATE WORK WILL START*
June 10, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8" NEW	48#	200'	250
12-1/4"	8-5/8" NEW	24# & 32#	6400'	150
7-7/8"	5-1/2" NEW	15-1/2# & 17#	9787'	150

RECEIVED
MAY 19 1980

DIVISION OF
OIL, GAS & MINING

plotted on map 5/21/80

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 Operations Manager DATE 5/29/79

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] FOR E. W. GUYNN DISTRICT ENGINEER DATE MAY 15 1980

CONDITIONS OF APPROVAL, IF ANY:

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

CONDITIONS OF APPROVAL ATTACHED TO OPERATIONS COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

Utah State Oil & Gas

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

5. Lease Designation and Serial No.

U-9063

6. If Indian, Allottee or Tribe Name

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

7. Unit Agreement Name

Crooked Canyon

8. Farm or Lease Name

Federal

9. Well No.

10-10-14-23

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

SW/4 NE/4
Sec. 10-T14S-R23E

2. Name of Operator

Coseka Resources (U.S.A.) Limited

3. Address of Operator

718 17th St. #630, Denver, CO 80202

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface

2025' FNL, 2173' FEL, Section 10-T14S-R23E, S.L.B&M.

At proposed prod. zone

Same

SWNE

12. County or Parrish 13. State

Uintah

Utah

14. Distance in miles and direction from nearest town or post office*

54.9 miles from Ouray, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

2025'

16. No. of acres in lease

2560.00

17. No. of acres assigned to this well

360

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

-

19. Proposed depth

6500'

Extra

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

6681' ungraded G.L.

22. Approx. date work will start*

June 1, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	8-5/8"	24#	500'	500 SXS <i>circ. to Surf.</i>
7-7/8"	4-1/2"	11.6#	6500'	250 SXS

The blowout preventers will consist of a 10" Series 900 Hydril Bag type BOP and a 10" Double Ram Hydraulic unit. Pressure tests of BOP's to 1000 psig will be made after installation and operation. The BOP's will be checked daily.

Will require both blind & pipe RAMS.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
5-23-80

DATE:
BY:

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

24.

Signed J. D. Odum

Title Manager of Operations

5/19/80

(This space for Federal or State office use)

Permit No. 43-047-30708

Approval Date 5/23/80

RECEIVED
MAY 21 1980

Approved by.....
Conditions of approval, if any:

Title.....

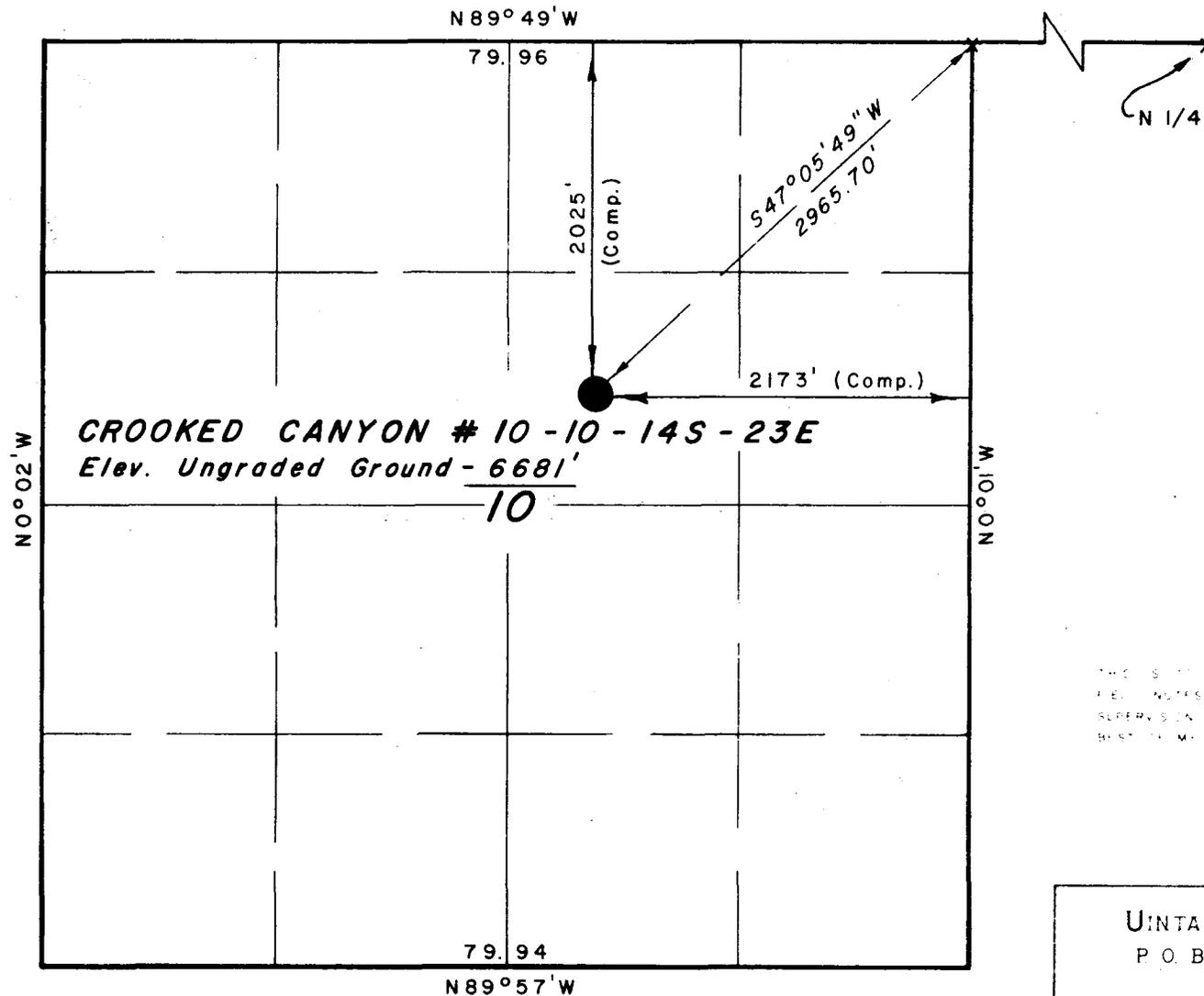
Date.....

DIVISION OF
OIL, GAS & MINING

T 14 S, R 23 E, S.L.B.&M.

PROJECT
COSEKA RESOURCES U.S.A. LTD.

Well location, *CROOKED CANYON*
10 - 10 - 14S - 23E, located as shown
in the SW 1/4 NE 1/4 Section 10, T14S,
R23E, S.L.B.&M. Uintah County, Utah.



N 1/4 Cor. Sec. 11, T14S, R23E, S.L.B.&M.



CERTIFICATE

I HEREBY 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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 2454
STATE OF UTAH

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

SCALE	1" = 1000'	DATE	5/23/79
PARTY	L.D.T. D.S. S.B.	REFERENCES	GLO Plat
WEATHER	Fair	FILE	COSEKA RESOURCES

X = Section Corners Located

DISTRICT ENGINEER, U.S.G., SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-9063

OPERATOR: Coseka Resources (U.S.A.) Limited

WELL NO. 10-10-14-23 Federal

LOCATION: 1/4 SW 1/4 NE 1/4 sec. 10, T. 14S, R. 23E, SLM

Uintah County, Utah

Stratigraphy: Surface - Green River - Lower Parachute Creek Member

- Wasatch 2182
- Mesaverde 2982
- Mancos 5032
- Castlegate 5100
- Dakota 8882
- Morrison 9082
- Entrada 9632
- TD. 9787

Fresh Water:

Fresh water may be encountered as deep as 2500' in the sands of the Green River and Wasatch Fms. Below that depth, water should be saline.

Leasable Minerals:

Lands are withdrawn for oil shale E.O. 5327 and they are prospectively valuable for coal in the Mesaverde.

Additional Logs Needed: Operator suite should be run through the Mesaverde to delineate coals. Detailed lithologic logs (cuttings) should be made through the Mesaverde.

Potential Geologic Hazards: Possible, slight geopressuring below Wasatch. (-.52 psi / ft.)

References and Remarks:

- U.S.G. S. Prof Paper 548
- U.S.G.S. files, Salt Lake City.

2 1/2 SW of Sweetwater Canyon KGS.

Signature: A Paul Matheny

Date: 6 - 15 - 79

GEOLOGIC PROGNOSIS FOR WILDCAT OR DEVELOPMENT WELL

COSEKA RESOURCES (U.S.A.) LIMITED

718 17th Street, Suite 630

Denver, Colorado 80202

573-6178

OPERATOR: Coseka Resources (U.S.A.) Limited

WELL NAME: 10-10-14-23

Crooked Canyon

LOCATION: Utah

COUNTY & STATE: Uintah County

T14S-R23E-Section 10 SW NE

Utah

ELEVATION: Grnd. 6681 Meas

KB: _____

GEOLOGIST: Frank Gibbs
Michael Martin

PHONE: (303) 986-7306
355-4917

ENGINEER: Don Dunckley

PHONE: 243-3846

ESTIMATED FORMATION TOPS

<u>FORMATION</u>	<u>DEPTH</u>	<u>(\pm) ELEVATION</u>
Mancos	4633	+2048
Castlegate	4902	+1779
Mancos B	5758	+ 923
Base Mancos B	6381	+ 300 datum
Dakota	8895	-2214
Cedar Mountain-Morrison	9084	-2403
Entrada	9689	-3008

TOTAL DEPTH 6500'

GEOLOGIC STATEMENT OF OBJECTIVES

The Mancos B unit is the primary objective in this well.

LOGGING AND CORING INSTRUCTIONS

SAMPLES:

Collect every 30 ft. to 5758' (or top of Mancos B)
 Collect every 20 ft. to 6381' (or base of Mancos B)
 Collect every 30 ft. to T.D.
 Collect every _____ ft. to _____
 ft. to T.D.

Forward set(s) of Samples to:

American Stratigraphic Co.

6280 E. 39th Avenue

Denver, Colorado 80207

ELECTRIC AND POROSITY LOGS

Plan to Run: Mud: DIL, Comp. Neutron Form. Density (NOTE: If hole is switched from air to mud a sonic log might also be run).

Air: DIL, Comp. FDL, Comp. SNL (NOTE: Temperature log may be run if the well is flowing gas).

CORING

Estimated Core Point Top of Mancos B Footage 5700'

POSSIBLE DST's:	DST NO.	FORMATION
_____	_____	_____
_____	_____	_____
_____	_____	_____

CALL DEPTH: Contact Exploration Geologist in Denver office at 5758' (or top of Mancos B)

STOP DEPTH: Do not drill below 5758' (or top of Mancos B)

without Geologist and/or mud logger on location.

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-9063

Operator Coseka Resources Ltd.

Well No. 10-10-14-23

Location 2025' FNL & 2173' FEL Sec. 10 T. 14S R. 23E

County Uintah State Utah Field Wildcat

Status: Surface Ownership Public Minerals Federal

Joint Field Inspection Date July 25, 1979

Participants and Organizations:

_____	_____
_____	_____
<u>Greg Darlington</u>	<u>USGS - Vernal</u>
<u>Ron Rogers</u>	<u>BLM - Vernal</u>
<u>Tom Graham</u>	<u>Coseka Resources</u>
<u>Dallas Galley</u>	<u>D.E. Casada Construction</u>
_____	_____
_____	_____

Related Environmental Analyses and References:

- (1) Unit Resource Analysis, Seep Ridge Planning Unit, BLM, Vernal, Utah
- (2)

Analysis Prepared by:
Greg Darlington
Environmental Scientist
Vernal, Utah

Date: July 27, 1979

Reviewed by:
George Diwachak
Environmental Scientist
Salt Lake City, Utah

*Pod 20-10-14-23
200 X 150
3 1/2 mi NW 20' grass
3 mi NW 20' grass
From line not used
See 21822-21823
11/10/80
fr. h. ...
m. ...
3) a-d*

Noted - G. Diwachak

Proposed Action:

On May 31, 1979, Coseka Resources filed and Application for Permit to Drill the No. 10-10-14-23 exploratory well, a 9787-foot oil and gas test of the Morrison and Dakota Formations; located at an elevation of 6681 feet in the SW/4 NE/4 Section 10, T.14S, R.23E on Federal mineral lands and Public surface; lease No. U-9063. There was no objection raised to the well nor to the access road. However, because of the length of access road involved BLM proposes to give this APD further evaluation.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement is being reached with the BLM, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 250 feet wide x 400 feet long and a reserve pit 200 feet x 150 feet. A new access road would be constructed 20 feet wide x 3.4 miles long and an existing road would be upgraded to 20 feet wide by 3 miles long from the Monument Ridge, a maintained road. The operator proposed to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The anticipated starting date is upon approval and duration of drilling activities would be about 30 days.

For ancillary facilities the airstrip located adjacent to Seep Ridge Road in Sections 21 and 22 of T15S, R23E, would be used for hauling of crews into and out of the location. Seep Ridge road is a major road to many wells in the area, and would be utilized for access to this proposed location.

Location and Natural Setting:

The proposed drill site is approximately 59.4 miles road distance southeast of Ouray, Utah, the nearest town. A fair road runs to within 7 miles of the location. This well is a wildcat.

Topography:

This location is in open, relatively flat area with a gentle slope to the north.

Geology:

The surface geology is Green River formation of Middle Eocene Age. The soil is a sandy clay with mixed sandstone and shale gravels. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydro-carbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. The operator plans to use air as a circulating medium which would reduce the potential for loss of circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinon-juniper association is also present.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 11.2 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from West to East. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The location drains to Sweetwater Canyon, which drains to Bitter Creek then this flows into White River. The White River flows to the Green River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Plants in the area are of the salt-desert-shrub types grading to the pinon-juniper association.

Proposed action would remove about 11.2 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Uintah County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Seep Ridge Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash cage would be utilized for any solid wastes generated at the site and would be hauled away at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

(1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

(3) Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

- a. The BLM must agree to the construction of the proposed access road. Any proposed alternative routes would require an additional inspection.
- b. A trash cage will be used at the location and any solid wastes generated at the site would be hauled away at the completion of the drilling.
- c. The topsoil stockpile is to be moved to the east side of the pad.
- d. Any timber cut for the construction of the access road will be handled in a manner suitable to the BLM and the BLM's general requirements for access road construction will be followed carefully.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 11.2 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary

disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the White River. The potential for pollution to the Bitter Creek would exist through leaks and spills.

Determination:

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

Date

8/28/79

E. W. Longman
District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

** FILE NOTATIONS **

DATE: May 21, 1980
OPERATOR: Coseka Resources, Ltd.
WELL NO: Crooked Canyon Unit # 10-10-14-23
Location: Sec. 10 T. 14S R. 23E County: Uintah

File Prepared:
Card Indexed:

Entered on N.I.D:
Completion Sheet:

API Number 43-047-30708

CHECKED BY:

Petroleum Engineer: M.G. Winder 5-23-80

Director: _____

Administrative Aide: α on unit boundary - ltm

APPROVAL LETTER:

Bond Required: Survey Plat Required:

Order No. _____ O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation Sec Unit Plotted on Map

Approval Letter Written

Hot Line P.I. ltm

Unit approval

May 28, 1980

Coseka Resources, Ltd.
718 17th Street, Suite 630
Denver, Colorado 80202

Re: Crooked Canyon Unit #10-10-14-23
Sec. 10, T. 14S, R. 23E.,
Uintah County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

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

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-047-30708.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/b:tm

cc: USGS

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Coseka Resources, Ltd.

WELL NAME: Crooked Canyon Unit #10-10-14-23

SECTION 10 SW NE TOWNSHIP 14S RANGE 23E COUNTY Uintah

DRILLING CONTRACTOR Colorado Wells

RIG # 99

SPUDDED: DATE 6/17/80

TIME 8:00 a.m.

How dry hole spudder

DRILLING WILL COMMENCE approx 2 weeks

REPORTED BY Don Dunckley

TELEPHONE # _____

DATE June 19, 1980

SIGNED M. J. Munder

cc: USGS



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

October 29, 1980

Coseka Resources, Ltd.
718 17th St., Suite 630
Denver, Colo. 80202

RE: SEE ATTACHED SHEET.

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the month (s) indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Debbie Beauregard

DEBBIE BEAUREGARD
CLERK-TYPIST

SHEET ATTACHMENT:

- (1) Middle Canyon Unit # 4-30-16-24
Sec. 30, T. 16S, R. 24E,
Grand County, Utah
May 1980 thru October 1980
- (2) Rat Hole Canyon #2
Sec. 22, T. 14S, R. 25E,
Uintah County, Utah
April 1980 thru October 1980
- (3) Main Canyon Unit # 7-17-15-23
Sec. 17, T. 5S, R. 23E,
Uintah County, Utah
July 1980 thru October 1980
- (4) Crooked Canyon Unit # 10-10-14-23
Sec. 10, T. 14S, R. 23E,
Uintah County, Utah
June 1980 thru October 1980

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

5. LEASE DESIGNATION AND SERIAL NO. U-9063
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME Crooked Canyon
8. FARM OR LEASE NAME Federal
9. WELL NO. 10-10-14-23
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW NE Sec. 10-T14S-R23E
12. COUNTY OR PARISH Uintah
13. STATE 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

2. NAME OF OPERATOR
Coseka Resources (U.S.A.) Limited

3. ADDRESS OF OPERATOR
718 17th St. #630, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2025' FNL & 2173' FEL Sec. 10-T14S-R23E, S.L.B.&M.
Uintah County, Utah

14. PERMIT NO.
API #43-047-30708

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6681' Ungr

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

NOTICE OF INTENTION TO:

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) Monthly Report of Operations <input checked="" type="checkbox"/>	

SUBSEQUENT REPORT OF:

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 type="checkbox"/>
(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.)*

6/80 - Spudded 12 1/4" hole 6/17/80. Wait on rotary tools.
7/80 - MIRURT. Spudded 7/5/80. Released rig 7/24/80. Total depth 6880'.
8/80 - Waiting on completion unit.
9/80 - Waiting on completion unit.
10/80 - Cleaning up.

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

SIGNED Brenda Groghan TITLE Production Secretary DATE 11/5/80
Brenda Groghan

(This space for Federal or State office use)

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

December 10, 1980

Coseka Resources (U.S.A.) Limited
718 17th Street
Suite 630
Denver, Colorado 80202

RE: Well No. Crooked Canyon Unit
#10-10-14-23
Sec. 10, T. 14S, R. 23E.,
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Well Completion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

BARBARA HILL
WELL RECORDS

/bjh

Enclosures: Forms



COSEKA RESOURCES (U.S.A.) LIMITED

718 17th STREET, SUITE #630, DENVER, COLORADO 80202 (303) 573-6178

December 16, 1980

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

Re: Crooked Canyon Unit
Federal 10-10-14-23
SW NE Sec. 10-T14S-R23E
Uintah County, Utah

Gentlemen:

Enclosed, in duplicate, is the Well Completion Report for the above referenced well.

Thank you.

Very truly yours,

COSEKA RESOURCES (U.S.A.) LIMITED

Brenda Groghan
Production Secretary

/bg

Enclosures

RECEIVED

DEC 19 1980

DIVISION OF
OIL, GAS & MINING

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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

7

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
Coseka Resources (U.S.A.) Limited

3. ADDRESS OF OPERATOR
718 17th St. #630, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 2025' FNL & 2173' FEL Section 10-T14S-R23E
At top prod. interval reported below
At total depth Same

14. PERMIT NO. API# 43-047-30708 DATE ISSUED 5/23/80

5. LEASE DESIGNATION AND SERIAL NO.
U-9063

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Crooked Canyon

8. FARM OR LEASE NAME
Federal

9. WELL NO.
10-10-14-23

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SW NE
Sec. 10-T14S-R23E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

15. DATE SPUNDED 6-17-80 / 7-15-80 16. DATE T.D. REACHED 7/22/80 17. DATE COMPL. (Ready to prod.) 12/2/80 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 6681' Ungr 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 6880' 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY → ROTARY TOOLS X CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Mancos Top-6188', Bottom 6803'

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
FDC-CNL-GR, DII-GR, CBL-VDL, GR

27. WAS WELL CORED
Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	341'	12 1/4"	240 sxs	-
4 1/2"	11.6#	6875'	7 7/8"	374 sxs	-

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					1 1/2"	6110'	-

31. PERFORATION RECORD (Interval, size and number)
Perfed 6237-6380', 20-.38" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6100-6400'	Squeeze w/120 sxs.
6237-6380'	1000 gals of 7 1/2% acid
6237-6380'	Frac w/79,000 gal gel, 243,000# 20/40, 114,000# 10/20

33.* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
12/2/80	24	16/64"	→	-	91	2.3	-

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
105	460	→			2.3	-

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented TEST WITNESSED BY Boyd Snow

35. LIST OF ATTACHMENTS
Logs Under Separate Cover

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

SIGNED Dean Rogers TITLE Senior Operations Engineer DATE 12/16/80
Oil, Gas & Mining

RECEIVED

DEC 19 1980

(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 13: 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.	NAME	MEAS. DEPTH	TOP TRUSVERT. DEPTH
Mancos B	6188	6803	Cored 6100-6220' '6570-6630'	Sego Buck Tongue Castlegate Mancos B	5115 5230 5297 6188	

January 5, 1981

Coseka Resources (U.S.A.) Limited
718 17th Street
Suite 630
Denver, Colorado 80202

RE: Well No. Federal #10-10-14-23
Sec. 10, T. 14S, R. 23E.,
Uintah County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office December 16, 1980, from above referred to well indicates the following electric logs were run: FDC-CNL-GR, DIL-GR, CBL-VDL, GR. As of today's date this office has not received the CBL-VDL, GR. logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity log.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Barbara Hill
BARBARA HILL
WELL RECORDS

/bjh



355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. ● (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• COSEKA RESOURCES USA LTD
SUITE 300 1512 LARIMER ST
DENVER CO 80202 1602
ATTN: DAVID JOHNSON

Utah Account No. N0280
Report Period (Month/Year) 6 / 88
Amended Report

Well Name	Producing Zone	Days Oper	Production Volume		
API Number Entity Location			Oil (BBL)	Gas (MSCF)	Water (BBL)
MAIN CYN 6-8-15-23 4304731073 08045 15S 23E 8	CSLGT				
MAIN CYN 16-4-15-23 4304731111 08045 15S 23E 4	DKTA				
DRY BURN UNIT #1 4304730331 08050 13S 25E 29	MNCS				
CROOKED CYN 13-17-14-23 4304730619 08055 14S 23E 17	DKTA				
CROOKED CYN 10-10-14-23 4304730708 08055 14S 23E 10	MNCS				
SWEETWATER CYN #1 4304730460 08060 14S 24E 14	MNCSB				
SWEETWATER 6-13-14-24 4304731040 08060 14S 24E 13	DKTA				
WOLF UNIT 3-11-15-21 4304730622 08065 15S 21E 11	DKTA				
FED 16-19-14-22 4304731368 08069 14S 22E 19	MVRD				
BLACK HORSE #2 4304730248 08070 15S 24E 29	MNCS				
BLACK HORSE 14-15-15-24 4304731045 08070 15S 24E 15	MNCSB				
BLACK HORSE 12-8-15-24 4304731104 08070 15S 24E 8	MNCSB				
FEDERAL 5-13-15-21 4304731137 08071 15S 21E 13	DK-MR				
TOTAL					

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____ Telephone _____



COSEKA RESOURCES (U.S.A.) LIMITED

300 WRITER SQUARE, 1512 LARIMER STREET, DENVER, COLORADO 80202-1602 (303) 573-6178

RECEIVED
JUL 1 1988

DIVISION OF
OIL, GAS & MINING

June 27, 1988

On June 30, 1988, Coseka Resources (U.S.A.) Limited will be merged with and change its name to Arch Oil & Gas Company. The address for the organization will be unchanged at 300 Writer Square Building, 1512 Larimer, Suite 300, Denver, Colorado 80202-1602. The telephone number will also remain the same at (303) 573-6178.

While there should be no change in your communications with us, it is our hope that this change in name reflects the resolution of the past bankruptcy and the new and positive direction for the company. We look forward to working with you in the future as Arch Oil & Gas Company.

Thank you for your interest and if you have any questions, please contact us.

Sincerely,

Coseka Resources (U.S.A.) Limited

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
DEC 15 1989

LEASE DESIGNATION & SERIAL NO.
U-9083
INDIAN ALLOTTEE OR TRIBE NAME

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
DIVISION OF OIL, GAS & MINING
UNIT AGREEMENT NAME
Crooked Canyon

2. NAME OF OPERATOR Arch Oil & Gas Company
6. FARM OR LEASE NAME Federal

3. ADDRESS OF OPERATOR 1512 Larimer St., Suite 300, Denver, CO 80202
9. WELL NO. 10-10-14S-23E

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface 2025' FNL & 2173' FEL Sec. 10, T14S, R23E
10. FIELD AND POOL, OR WILDCAT Wildcat

At proposed prod. zone
11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA Sec. 10, T14S, R23E

14. API NO. 43-047-30708
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6681' GR
12. COUNTY Uintah
13. STATE Utah

18. 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) Status Report

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON
CHANGE PLANS

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)
(Note: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

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.)

* Must be accompanied by a cement verification report.

This well is currently shut in waiting for pipeline connection and improved market conditions.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
1-TAS	
2-	MICROFILM ✓
3-	FILE

18. I hereby certify that the foregoing is true and correct.
SIGNED Terry J. Cox TITLE Operations Manager DATE 12/15/89

(This space for Federal or State office use)

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

RECEIVED
JUN 18 1990

DIVISION OF
OIL, GAS & MINING

5. LEASE DESIGNATION & SERIAL NO.
U-9063
NAME OF INDIAN, ALLOTTEE OR TRIBE NAME

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 type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME Crooked Canyon	
2. NAME OF OPERATOR Arch Oil & Gas Company		8. FARM OR LEASE NAME Federal	
3. ADDRESS OF OPERATOR 1512 Larimer St., Suite 300, Denver, CO 80202		9. WELL NO. Crooked Can. 10-10-14S-23E	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2025' FNL & 2173' FEL Sec. 10, T14S, R23E At proposed prod. zone		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 10, T14S, R23E	
14. API NO. 43-047-30708	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6681'GR	12. COUNTY Uintah	13. STATE Utah

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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Status</u>	(Note: Report results of multiple completion or well completion or recompletion report and log form.)
(Other)		DATE OF COMPLETION _____	
APPROX. DATE WORK WILL START _____			

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.)

* Must be accompanied by a cement verification report.

This well is currently shut in waiting for pipeline connection and improved market conditions.

OIL AND GAS	
DRN	RJF
JOB	GLH
DTS	SLS
1- DATA	
2- MICROFILM	<input checked="" type="checkbox"/>
3- FILE	<input checked="" type="checkbox"/>

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

SIGNED Terry J. Cox TITLE Operations Manager DATE 6/15/90

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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 type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-9063	
2. NAME OF OPERATOR Arch Oil & Gas Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 1512 Larimer St., Suite 300, Denver, CO 80202		7. UNIT AGREEMENT NAME Crooked Canyon	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2025' FNL & 2173' FEL Sec. 10, T14S, R23E		8. FARM OR LEASE NAME Federal	
14. PERMIT NO. 43-047-30708 SGW		9. WELL NO. 10-10-14S-23E	
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6681'GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 10, T14S, R23E	
		12. COUNTY OR PARISH Uintah	13. STATE Utah

NOV 29 1990

DIVISION OF
OIL, GAS & MINING

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"/>	

(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.)*

Status

This well is currently shut in waiting for pipeline connection and improved market conditions.

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

SIGNED

TITLE

Operations Manager

DATE

11/27/90

(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

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED

JAN 17 1992

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. Federal 10-10-14S-23E
2. Name of Operator Arch Oil & Gas Company	9. API Well No. 43-047-30708
3. Address and Telephone No. 1512 Larimer Ste. 300 Denver, CO. (303) 573-6178 80202	10. Field and Pool, or Exploratory Area Wildcat
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2025' FNL & 2173' FEL Sec. 10, T14S, R23E	11. County or Parish, State Unitah, Utah

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

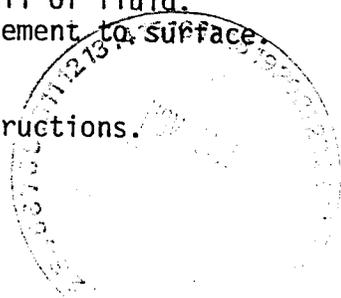
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input checked="" type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back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

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

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

Plugged & Abandoned Well on 11-3-91 as follows:

1. Plug #1, 30 sx 15.6 ppg cement 6110' to 5854'. Tagged plug.
2. Shot 4½" casing at 3700'.
3. Plug #2, squeeze cement with 55 sx 15.6 ppg cement under packer. Achieve a standing squeeze with 300 psig. Casing leak was isolated above the packer.
4. Cut & pull 4½" casing from 390'.
5. Plug #3, 32 sx 15.6 ppg cement 390' to 360'. Tagged plug at 360'.
6. Plug #4, 32 sx 15.6 ppg cement 360' to 260'. Hole standing full of fluid.
7. Plug # 5, 57 sx 15.6 ppg cement 120' to surface. Circulated cement to surface.
8. All spaces between plugs filled with 9.0 ppg fluid.
9. Erected regulation dry hole marker.
10. Rehabed and seeded the portion of the access road per BLM instructions.
11. Plugging witnessed by BLM representatives.



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

Signed [Signature] Title Production Manager Date November 14, 1991

(This space for Federal or State office use)

Approved by [Signature] Title Area Manager Date 12/10/91

Conditions of approval, if any: See attached conditions of approval

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.

Well No. 10-10
Lease No. U-9063

SUBSEQUENT REPORT OF ABANDONMENT
CONDITIONS OF APPROVAL

1. The required seed mixture on the #10-10 well will be:

<u>Seed</u>	<u>Lbs. per Acre</u>
<u>Hycrest crested wheatgrass</u>	<u>6</u>
<u>Yellow sweetclover</u>	<u>1</u>
<u>Fourwing saltbrush</u>	<u>5</u>
<u>Total lbs per acre</u>	<u>12</u>

-If the seed is broadcast, the mixture will be double the lbs. per acre, and a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

- All seeding will be done from September 15 until the ground freezes.

-If the seeding is unsuccessful, Arch Oil and Gas may be required to reseed the location again to achieve the desired ground cover.

2. The reclamation plan outlined in the approved APD will be adhered to. Arch Oil and Gas. will notify the Bureau of Land Management 7 days prior to beginning surface rehabilitation operations to discuss seeding methodology and to allow us time to schedule a field examination, if necessary.

3. You or your authorized representative should inspect the abandoned location prior to notification to this office by Form 3160-5 that the location is ready for final inspection, and note especially that:

A. The regulation dry-hole marker bears the correct information as required.

B. The rathole and mousehole are filled, not just bridged, and pits are filled and leveled.

C. All material and junk are gone. This includes deadmen protruding above ground.

D. Reseeding or other required rehabilitation work has been completed.

RECEIVED

JAN 17 1992

DIVISION OF
OIL GAS & MINING

API # 43-047-30708

EA # 379-79

Form 9-583
(April 1982)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CONSERVATION DIVISION

Sec. 10
T. 14S
R. 23E
SLB Mer.

10		

SEP 17 1993

DIVISION INDIVIDUAL WELL RECORD
OIL, GAS & MINING

PUBLIC LAND:

Date December 22, 1980

Ref. No. 6

Land office Utah State Utah

Serial No. 9063 County Uintah

Lessee Exxon Corporation Field Unit Terminated 11/14/91
Wildcat Crooked Canyon Unit

Operator Coseka Resources District Salt Lake City

Well No. 10-10-14-23 Subdivision SW NE

Location 2025' FNL & 2173' FEL

Drilling approved May 15, 1980 Well elevation 6681' Ingr feet

Drilling commenced June 17, 1980 Total depth 6880 feet

Drilling ceased July 22, 1980 Initial production 91 MCEGPD, 2.3 BWPD

Completed for production Dec. 2, 1980 Gravity A. P. I. NA

Abandonment approved Aug 23, 1993 Initial R. P. FTP-105#, CP-460#

Geologic Formations		Productive Horizons		
Surface	Lowest tested	Name	Depth	Contents
<u>Green River</u>	<u>Mancos</u>	<u>Mancos "B"</u>	<u>6188-6803</u> <u>(Selective)</u>	<u>Gas, water</u>

WELL STATUS

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1980						spud	TD 6880					ESI
1991											ABD	
1993								PTA				

REMARKS Geologic Markers: see well file Well plugged 11/3/91

Casing record: 8 5/8" cc @ 341' w/240 sxs.
4 1/2" cc @ 6875' w/374 sxs.