

FILE NOTATIONS

Entered in NID File ✓
 Entered On S R Sheet
 Location Map Filled
 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 M-I Sonic Others



POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
600 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

April 24, 1980

RECEIVED
APR 28 1980

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

DIVISION OF
OIL, GAS & MINING

RE: Application for Permit to Drill
Cities Service Company
Federal A #1
NE NE Sec. 27 T35S R1E
1236'FNL & 839'FEL
Garfield County, Utah

Gentlemen:

Enclosed are three copies of Form OGC-1a and the location and elevation plat for the above-referenced well location.

Please return the approved copies to:
Mr. Ed Wilder
Cities Service Company
P.O. Box 1919
Midland, Texas 79702

Sincerely yours,

POWERS ELEVATION

Connie L. Frailey
Connie L. Frailey

CLF/cw
Enclosure

cc: Ed Wilder

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

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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
 Cities Service Company *Attn: Ed Wilder 915-685-5600*

3. Address of Operator
 P.O. Box 1919, Midland, Texas 79702

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
 At surface
 1236'FNL & 839'FEL (NE NE)

At proposed prod. zone
 same

5. Lease Designation and Serial No.
 U-33917

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

7. Unit Agreement Name
 N/A

8. Farm or Lease Name
 Federal A

9. Well No.
 #1

10. Field and Pool, or Wildcat
 Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area
 Sec. 27 T35S R1E

12. County or Parrish
 Garfield

13. State
 Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)
 839'

16. No. of acres in lease
 1457.05

17. No. of acres assigned to this well
 80

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.
 2640'+

19. Proposed depth
 10,000'

20. Rotary or cable tools
 Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
 7304'GR

22. Approx. date work will start*
 as soon as approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2"	10-3/4"	40.5&45.5#	3000'	2500 sacks Halliburton Lite
9-1/2"	7-5/8"	26.4#	6750'	300 sacks Class "H"
6-1/2"	5-1/2"	17#	10,000'	200 sacks Class "H"

1. Set 40' of 20" corrugated galvanized iron pipe in 26" hole and cement in place.
2. Drill 17-1/2" hole and set 10-3/4" surface casing to 3000' with good returns.
3. Drill 9-1/2" hole and set 7-7/8" intermediate casing to 6750' and cement.
4. Log BOP checks in daily drill reports and drill 6-1/2" hole to 10,000'.
5. Run tests if warranted and run 5-1/2" casing if productive.
6. Run logs as needed and perforate and stimulate as needed.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 5-7-80
 BY: *M.T. Wilder*

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.

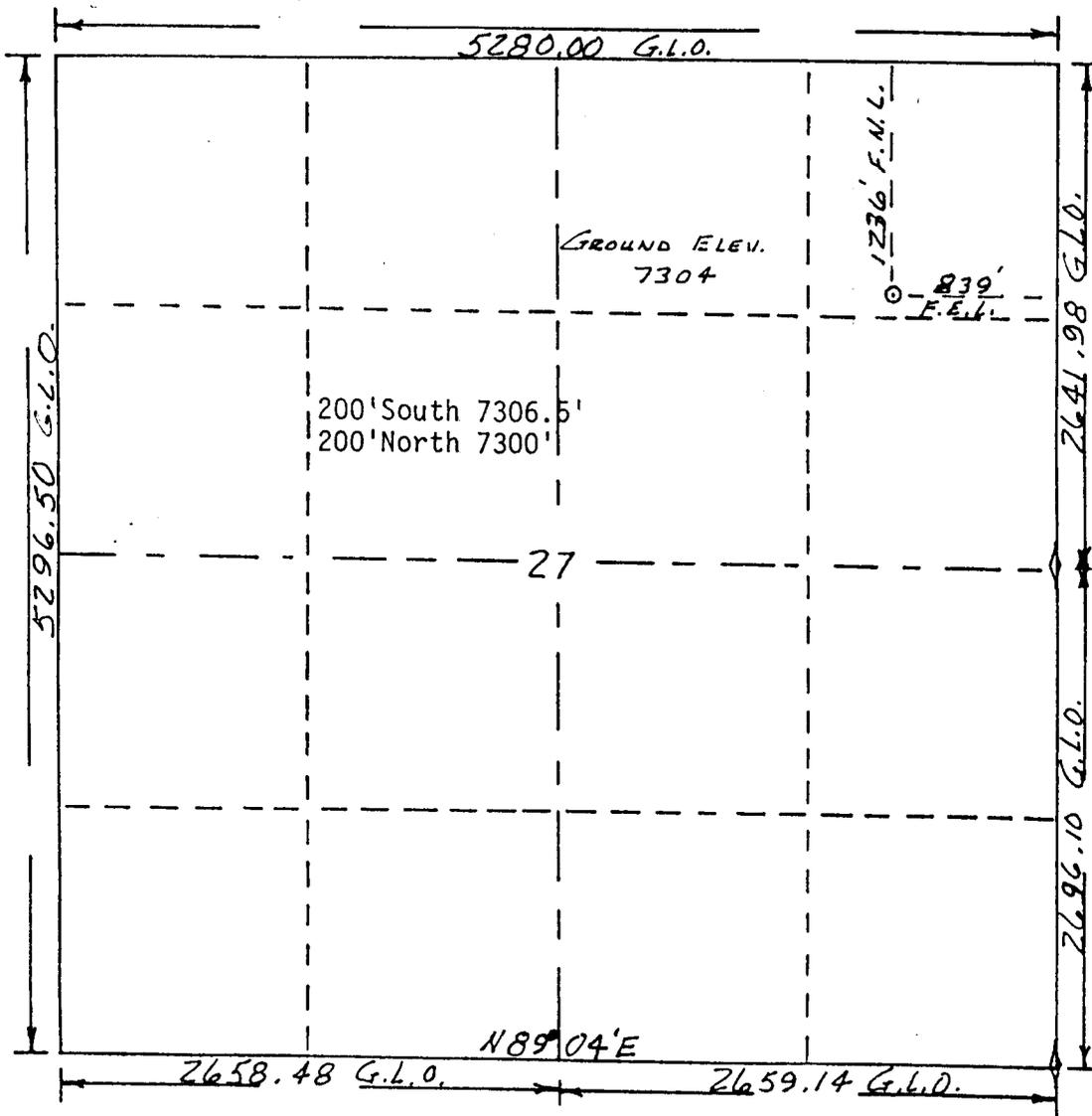
24. Signed *George Lapascotes* Title Agent Consultant for Cities Service Company Date 4/24/80
 (This space for Federal or State office use)

Permit No. 43-017-30082 Approval Date 5/7/80

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



R. 1 E.



1" = 1000'

T.
35
S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from ED WILDER
 for CITY SERVICES COMPANY
 determined the location of FEDERAL A # 1
 to be 839' F.E.L. & 1236' F.N.L. OF Section 27 Township 35 S.
 Range 1 E. OF THE SALT LAKE Meridian
 GARFIELD County, UTAH

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of

CITY SERVICES FEDERAL A # 1

Date: 4-1-60

Jerry D. Becken
 Licensed Land Surveyor No.
 State of 4189 UTAH

EXHIBIT "E₁"
Detail of Access Road

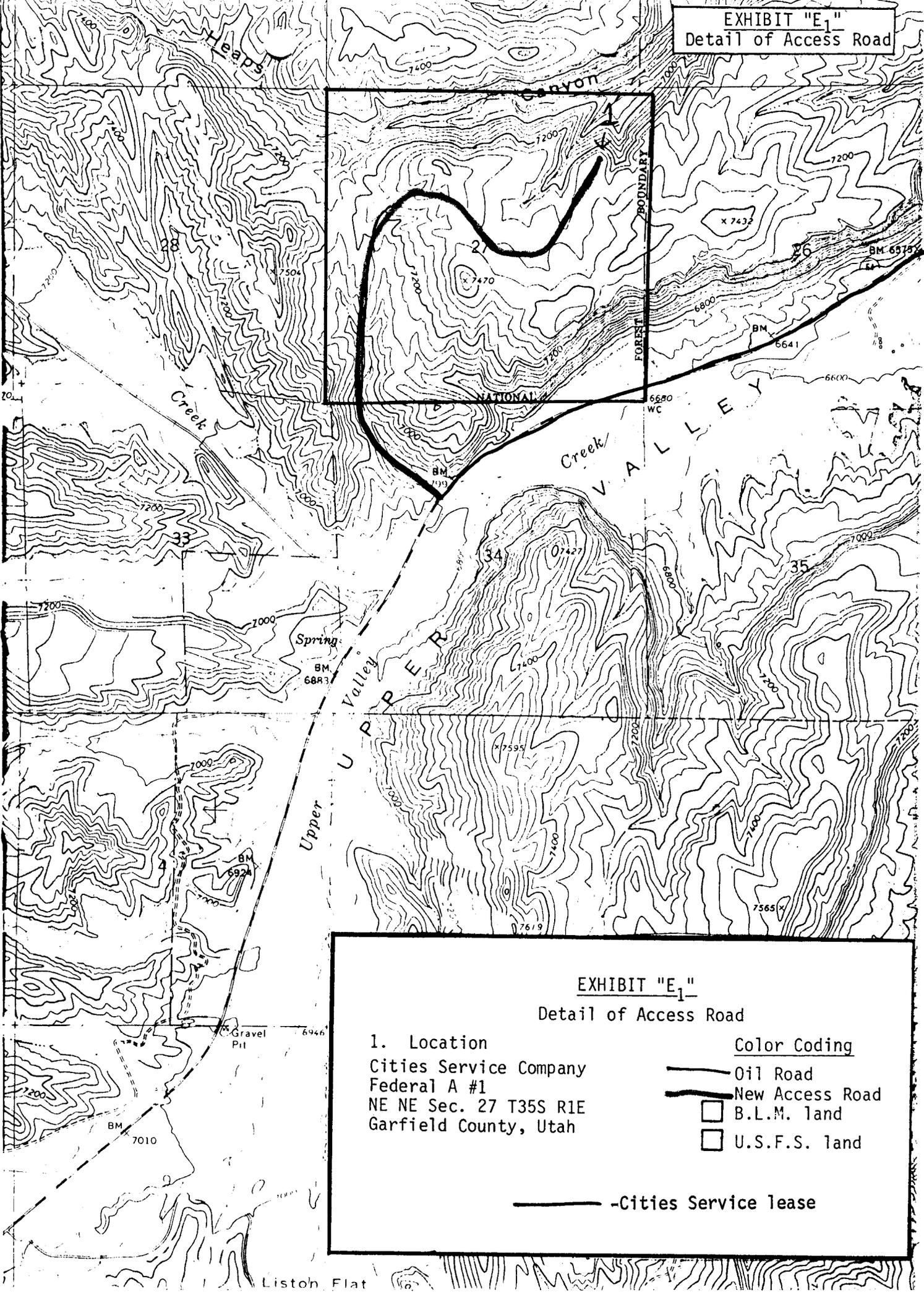


EXHIBIT "E₁"
Detail of Access Road

1. Location
 Cities Service Company
 Federal A #1
 NE NE Sec. 27 T35S R1E
 Garfield County, Utah

Color Coding

-  Oil Road
-  New Access Road
-  B.L.M. land
-  U.S.F.S. land

 -Cities Service lease

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
Cities Service Company
Federal A#1
NE NE Sec. 27 T35S R1E
1236' FNL & 839' FEL
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Straight Cliffs in the Cretaceous.

2. Estimated Tops of Important Geologic Markers

Entrada	1566'
Navajo	3082'
Kayenta	4619'
Wingate	4938'
Chinle	5159'
Moenkopi	5702'
Timpoweap	6484'
Kaibab	6576'
White Rim	6717'
Toroweap	6884'
Cedar Mesa	7422'
Elephant Canyon	8309'
Hermosa	8709'
Molas	9115'
Redwall	9186'

Total Depth 10,000'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Timpoweap	6484'	Oil/Gas
Kaibab	6576'	Oil/Gas
Redwall	9186'	Oil/Gas

No surface water is anticipated.

4. The Proposed Casing Program

CASING STRING	HOLE SIZE	INTERVAL	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE & JOINT	NEW OR USED
Conductor	26"	0-40'	40'	20"	94# H-40 8R	New
Surface	17-1/2"	0-2500'	2500'	10-3/4"	40.5# K-55 ST&C	New
		2500'-3000'	500'		45.5# K-55 ST&C	New
Intermediate	9-1/2"	0-5230'	5230'	7-5/8"	26.4# K-55 ST&C	New
		5230'-6250'	1020'		26.4# N-80 LT&C	New
		6250'-6750'	500'		26.4# S-95 LT&C	New
Liner	6-1/2"	6450'-10,000	3550'	5-1/2"	17# N-80 SFJ Hydril	New

2500' of 2-1/16" 3.25# J-55 Parasite tubing will be welded to outside of 10-3/4" for mud aeration.

Cement Program

Conductor: Cement to surface with ready mixed concrete.

Surface: Circulate cement with 2500 sacks Halliburton Lite with 5# Gilsonite, 1/4# Flocele, 5# salt/sack and 2% CaCl₂, followed with 200 sacks Class "H" with 3% salt and 1/4# Flocele per sack. If cement does not circulate, run temperature survey then finish cementing to surface through 1" in the annulus using Class "H" with 2-4% CaCl₂ in stages.

Intermediate: Cement with 300 sacks Class "H", 50-50 Pozmix with 2% gel. 0.75% CFR-2, 0.6% Halad 9 and 5% KCL per sack preceded by 1000 gallons mud flush and 30 barrels C-53 spacer.

Production: Cement with 200 sacks Class "H", 50-50 Pozmix with 2% gel, 0.75% CFR-2, 0.6% Halad 9 and 5% KCL, preceded by 1000 gallons mud flush and 30 barrels C-53 spacer

5. The Operator's Minimum Specifications for Pressure Control ?

Blowout preventer will be a 12" - 3000# Series. EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to half of working pressure after nipling up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include an upper and lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site on handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

- | | |
|-----------------|---|
| 0-3000' | Spud mud. Gel flocculated with lime. Treat with coarse fibrous LCM. |
| 3000' - 10,000' | Fresh water lignosulfonate system 8.5 -9.0#/gallon weight and 35-45 viscosity. The PH control will be with additions of caustic soda. Coarse fibrous LCM and injection of air via a parasite string on the 10-3/4" surface string to lighten upper hole, mud weight will be utilized for loss circulation problems. |

7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string.
- (b) A float will not be used at the bit.
- (c) A mud logging unit and gas detecting device will be monitoring the system. Mud logging will consist of a two man unit from 4500' to total depth.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.
- (e) Monitoring will also include recording pit level indicator and flow sensor on flow line.

8. The Testing, Logging and Coring Programs to be Followed.

- (a) Three DST's are anticipated in the Timpoweap, Kaibab and Redwall Formations. Other zones will be tested as needed.
- (b) The logging program will consist of an FDC/CNL-GR-Cal, DTL-SP, PML-Cal, BHC Sonic-GR-Cal and HDT (Schlumberger). Other logs will be determined at well site to best evaluate any shows.

- (c) No coring is anticipated.
- (d) Completion procedures will be to stimulate Dolomite Limestone Formation with HCL acid. Stimulate Sandstone Formation with gelled water and frac. sand, see EXHIBIT "K".

9. Any Anticipated Abnormal Pressures and Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date will be as soon as possible after examination and approval of drilling requirements. Operations should be completed within 100 days after spudding the well and drilling to casing point.

Oil and Gas Drilling

EA # 390-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: September 4, 1980

Operator: Cities Service Company Project or Well Name and No.: 1
Location: 1236' FNL & 839' FEL Sec.: 27 T.: 35S R.: 1E
County: Garfield State: Utah Field/Unit: Wildcat
Lease No.: U-33917 Permit No.: N/A

Joint Field Inspection Date: May 20, 1980

Prepared By: George J. Diwachak

Field Inspection Participants, Titles and Organizations:

George Diwachak	Environmental Scientist	USGS
Phil Bayles	District Ranger	Escalante Ranger District, USFS
Millard Dumas III	Forester	Escalante Ranger District, USFS
Joe Black	Area Engineer	USFS
William H. West	Range Conservationist	BLM
Quay M. Simons	Realty Specialist	BLM
E. Y. Wilder	Regional Operations Mgr.	Cities Service Company
Gordon Harward	Asst. District Engineer	Powers Elevation
Lincoln Lyman	President	Lyman Construction

Related Environmental Analyses and References:

- (1) Summary-Final Environmental Statement, RARE II, U.S. Forest Service
- (2) Development of Coal Resources in Southern Utah, Final Environmental ations Statement, U.S. Geological Survey.

8-5-80 kr

Handwritten notes:
 8-5-80
 Pad 250 x 300
 Pt 75 x 150
 1745 West 1700 South
 6713
 1-7

Noted - G. Diwachak

SEP 5 1980

DISCRIPTION OF PROPOSED ACTION

Proposed Action: Cities Service Co. Application for Permit to Drill Oil Well No. 1.

1. Location State: Utah

County: Garfield

1236' FNL, 839' FEL, NE 1/4 NE 1/4

Section 27, T35S, R 1E, SLM.

2. Surface Ownership Location: Public.

Access Road: Public.

Status of Reclamation Agreements: Not Applicable.

3. Dates APD Filed: April 25, 1980 .

APD Technically Complete: June 16, 1980 (upon receipt of revised surface use plan per onsite request of US Forest Service.

APD Administratively Complete: Sept. 4, 1980

4. Project Time Frame

Starting Date: Upon approval or spring/summer 1981.

Duration of Drilling activities: 125 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseedling would normally occur within one year; revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

None known.

6. Nearby pending actions which may affect or be affected by the proposed action:

None known.

7. Status of Variance Requests:

Exception to CFR, 221.20 - 200' Rule

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 250' wide x 300' long including a reserve pit 75' x 150' would be constructed. Approximately 1.7 miles of new access road, averaging 16' driving surface, would be constructed from a maintained road. About 8 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road should be limited to 25-30 feet; however, widths would be wider on curves and cut/fill slopes.

The proposed road, for the most part, follows the lay of the land and crosses slopes that average 15 to 20%. Some road grade pitches up to 13% will be required. A 16 ft. running surface on the road will require an 18 to 20 ft. road base. Ditching will widen road bases to at least 24 ft. Cuts and fills along the road will increase width disturbances to 40 to 50 ft. depending on backslopes and necessary road curve widths. The road crosses numerous drainages and culverts will be necessary to allow for adequate drainage. (See Exhibit E. of enclosed, revised APD).

Construction for the most part, will be via self balanced sections. Portions of the road will require cutting through ridge tops and drifting material into the low spots on both sides of the ridges. Some areas contain sideslopes of 50%+. In these areas, full benching will be necessary to prevent sliver fills and unnecessary raveling of material. Some blasting may be necessary. The parent material in the area consists of a sandstone ledgerrock and shale. The sandstone can be expected to power out during dry weather and the shale will be slick when wet. Proper moisture content will be very important during the road construction in order to build a stable roadbed.

2. Drilling - Outlined in APD
3. Waste disposal - Garbage and trash would be confined to an enclosed trash pit and buried upon completion of operations.
4. Traffic during drilling and completion would be confined to operational and service vehicles. At the onsite inspection, the operator expressed a desire to erect a gate across the access road, near its entrance from the main road, to limit access to the area.
5. Water requirements are variable, water would be hauled from Upper Valley Creek. The operator has obtained an agreement for water use authorization.
6. Completion operations would depend upon the discovery of hydrocarbons.
7. Production facilities are outlined in Exhibit G of APD.
8. Transportation of possible hydrocarbons would probably involve trucking oil over access roads to refining facilities.

Details of the proposed action are described in the Application for Permit to Drill.

The location was rotated 180° to the position reported in the enclosed amended APD to better utilize existing terrain and place the reserve pit downwind.

The access road was shifted slightly from its original position as outlined in the amended APD to avoid archaeological remains, reduce grades and provide for better drainage crossings.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: The drilling location and access road are located in a rugged isolated section of the Dixie National Forest (See Exhibit E and E₁ of APD). The drill site itself is situated on the Northern edge of a mesa top near the edge of steepwalled Heaps Canyon. The proposed access road leaves State Highway 12 in Upper Valley in a northerly direction crossing BLM and USFS administered lands (See Exhibit E₁ of APD). The terrain traversed in NW/4 Section 34 and S/2 Section 27 is dominantly steep rock structured hillsides with numerous non-perennial drainages dissecting the land. Sandstone and shale outcrops are common. The physiography changes to dissected mesa tops in the west central part of Section 27 to the edge of Heaps Canyon.

Construction of the wellsite would involve a maximum cut of 3.4 ft. and maximum fill of 7.3 ft. for pad leveling. Although an imbalance between cut and fill material exists, the relatively flat terrain at the wellsite should not hinder pad construction.

Access road construction through the rugged hillsides would involve much work with blasting necessary at some rock outcrops. Once the road reaches the mesa top, construction should proceed easily as few obstacles are present and the terrain is relatively flat.

PARAMETER

A. Geology

1. General: Surface geology is dominated by the Straight Cliffs Sandstone Formation. Massive, cliff forming sandstone is the dominant component of this formation; however, argillaceous, calcareous, gypsiferous, arenaceous and carbonaceous shales as well as beds of conglomerate and limestone are also present. Estimated tops of geologic markers are reported in the APD and verified by the enclosed Mineral Evaluation Report.

Information Source: APD, MER, USFS Staff Report

2. Other Local Mineral Resources to be Protected: Coal may be present in the Smoky Hollow Member of the Straight Cliffs Formation, and appears potentially valuable for under ground mining. The area is not under a Federal coal lease. Logging for coal behind the surface casing would provide valuable information concerning another potential mineral resource.

Information Source: Mining Report, MER

2. Hazards:

a. Land Stability: No land instability is expected at the wellsite. Some instability could occur on portions of the access road with steep sideslopes. The full benching and surfacing material proposed in the amended APD should reduce this impact. Where the road crosses areas of shale beds, stability problems would exist for both cut and fill slopes and trafficability of the road prism. The shale material has poor bearing strength when wet and considerable surfacing would be required for heavy equipment to traverse this section of road.

Information Source: APD, USFS Staff Report, Field Observation.

b. Subsidence: No subsidence is expected in the area, however, the withdrawal of fluids could cause subsidence.

Information Source: "Environmental Geology", Keller

c. Seismicity: The proposed wellsite is in a region of minor to moderate seismic risk. The operating plan does not account for this.

Information Source: "Geologic Atlas of the Rocky Mountain Region", Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: No high pressure zones are anticipated. Blowout Prevention Equipment is detailed in APD.

Information Source: APD, MER

B. Soils:

1. Soil Character: Soils in the area are shallow gravelly loams and gravelly silt loams with sand present in localized areas. The dissected hillside portion of the project contains numerous rock outcrops. Outcrops on the mesa top are much less. Topsoil would be removed and stockpiled at the wellsite. Vegetating the stockpile would provide stability. Soils would be disturbed by road construction and topsoil would probably be lost. Vegetating sideslopes would provide stability along access roads as well as reducing erosion. Soils at the drillsite contain much sand and rapid permeability would necessitate pit lining.

Information Source: "Soils of Utah", LeMoyné, USFS Staff Report, Field Observation.

2. Erosion/Sedimentation: Present erosion rates are high over the entire proposed road route, but highest on the steep hillsides. Sedimentation rates are moderate to high as the surface soil material is readily detached and easily transported by runoff water which is common due to the inability of water to infiltrate the shallow soils.

Road construction would considerably accelerate erosion, particularly on the steep rock structured hillsides. Erosion is less on the mesa top due to the nearly flat terrain. Sediment loads would greatly increase during construction and one year following. Surface erosion from road surfaces, cut and fill slopes and road ditches would be a problem where the roads cross or closely parallel drainages.

Reseeding disturbed areas, surfacing roads with materials of adequate bonding capabilities with a depth adequate to bear expected loads, insloping roads with rock lined inside ditches, culvert installations at drainage crossing and construction of rolls and dips to drain water on level stretches of road are means of reducing accelerated erosion/sedimentation associated with construction.

Information Source: USFS Staff Report, APD, Field Observation.

C. Air Quality: The wellsite is in a Class II attainment area. Air quality would decrease temporarily from vehicle and equipment emissions and fugitive dust decreasing substantially if production is established and returning to pre-drilling levels upon abandonment.

Information Source: Utah State Dept. of Health (Pers. Comm.), Field observation.

D. Noise Levels: Noise levels would increase temporarily from vehicle and equipment operations affecting wildlife in a distributional sense.

Information Source: Field observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: Drainage from the steep rock-structured hillsides is from discontinuous first order streams, over-steep terrain with high energy potentials for sediment transport. Sedimentation rates are moderate to high during spring runoff and intense thunderstorms, common during summer. On the dissected mesa top a less defined drainage pattern is evident. Sediment delivery is reduced primarily due to the nearly flat terrain.

Approximately 10 drainages would be crossed by the access road on the lower half of the route, including Allen Creek, the only perennial stream in the project area. Sediment loads would be increased greatly by construction, especially where the road crosses or closely parallels streams. No significant siltation hazards are expected. Mitigative measures are outlined in Erosion/Sedimentation section of Part B. Soils. All are methods that would reduce impacts to surface water resources.

Any utility and transmission lines should parallel the proposed road corridor, slightly increasing on-site impacts but reducing over all disturbances and subsequent sedimentation by keeping activities controlled over one route.

Water for drilling purposes would be obtained from a private source on Upper Valley Creek. No impact on streamflow or downstream users is expected.

Information Source: USFS Staff Report, Field Observation.

b. Ground Waters: Fresh or usable water may be found in the Straight Cliffs Formation (0-500'). Usable water may be found as deep as the Entrada Sandstone (1566'). The proposed 3000 ft. of surface casing and cementing program would protect any aquifers, however, lost circulation zones could prevent cement from reaching the surface.

Information Source: APD, MER

2. Water Quality

a. Surface Waters: The potential for a spill of oil, water or drilling fluids exists at the wellsite. The increased sedimentation from construction should not adversely affect water quality. Lining and keyseating the reserve pit, and diking any storage tanks should prevent spills and breaks.

Information Source: Field Observation, USFS Staff Report.

b. Ground Waters: Insignificant impacts are expected to ground water quality as surface casing and cementing program should prevent commingling of aquifers and potential contamination by introduction of drilling fluids. Lining the reserve pit would provide additional protection for ground water quality.

Information Source.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the informal comments received from U.S. Forest Service and BLM, on May 20, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: The dominate vegetation for the area are stands of Pinyon (Pinus edulis) and Juniper (Juniperus osteosperma) with scattered trees of Ponderosa Pine (Pinus ponderosa) and Douglas Fir (Pseudotsuga menziesii). There is a sparse understory, of predominately shrub species, throughout the area with understory density higher on mesa tops than on the valley slopes. The larger openings in the Pinyon and Juniper stands, on the mesa tops, are filled with moderately dense stands of Big Sagebrush (Artemisia tridentata). The area is currently at or near climax condition.

The understory vegetation is dominated by shrub species. The major shrub species in the understory are Bitterbrush (Purshia tridentata), Mountain Mahogany (Cercocarpus montanus), Desert Holly (Berberis fremontii), Big Sagebrush (Artemisia tridentata) and Buffaloberry (Shepherdia rotundifolia). Indian Ricegrass (Oryzopsis hymenoides) is the most abundant grass in the understory with minor amounts of Western Wheatgrass (Agropyron smithii) and Blue Grama (Bouteloua gracilis) also present. Phlox (Phlox spp.) is also present, primarily on the valley slopes, with Lupine (Lupinus spp.) present on the mesa tops, especially in the sagebrush openings.

The estimated, average total ground cover for the area is approximately 25 to 30 percent, with the major cover coming from the tree overstory. Ground cover on the mesa tops is generally higher than on the valley slopes, with a larger proportion of the cover coming from the understory vegetation.

Yearly biomass production for the understory is low due to the low plant density. Total production from the area is only moderate due to the old age of the trees in the overstory and due to the near climax condition of the stand.

Once vegetation is removed an invasion of non-climax species (annual weeds can be expected). This invasion should be confined to the disturbed areas only and should not spread beyond the construction area. The overall climax condition of the area would not be degraded.

Total biomass production would be affected minimally by road and pad construction. Wildlife forage would, therefore, be reduced.

Information Source: USFS, Field observation, BLM Vegetation Report submitted to USFS.

3. Fauna: Wildlife species using this area, during at least some time of the year, would include mammals such as the least chipmunk, deer mouse, kangaroo rat, coyote, cottontail rabbit, mule deer, black-tailed jackrabbit, and wood rat. Birds using this vegetation type would be pinyon jays, Clark's nutcrackers, ravens, chickadees, robins, and Townsend's solitaires.

Winter use of the area by mule deer is evident, particularly on the mesa tops. The proposed road location is being used to some extent by mule deer as a travel route. The relative importance of this area as a mule deer wintering area is somewhat difficult to determine. Deer populations throughout the Escalante area are presently quite low. Higher deer populations may result in much heavier use of the area, or it could be simply a marginal wintering area that would not receive substantially more use even if deer populations were higher. The presence of south facing slopes, a bitterbrush understory, and proximity to water would, however, indicate that the area has some importance, either existing or potential, as a deer wintering area.

Activities associated with exploratory drilling would affect wildlife by direct habitat alteration as well as indirect disturbance caused by human activity. Clearing and leveling of the pad would result in the disturbance of 2 to 3 acres, and a loss of forage. Open pits would pose a threat to some species, particularly birds and small mammals. Construction and subsequent use of roads, and drilling activities at the wellsite, would result in some displacement of wildlife (including deer) now using habitat adjacent to the road and pad.

It is not anticipated that drilling of one well in this area will have a significant adverse impact on deer wintering in this area. This is based upon the assumptions that (1) deer numbers are currently below the carrying capacity of the winter range in this area, (2) there are probably some alternate adjacent areas that would be used by deer and (3) deer seem to be capable of adjusting to some degree of disturbance in winter, particularly if that disturbance is localized.

The cumulative impacts, however, of exploratory drilling and development on wildlife and wildlife habitat in this area can be short-term or long-term, significant, or relatively minor, depending upon the intensity, duration, and eventual extent of the activities involved.

Information Source: USFS Staff Report, Field Observation.

G. Land Uses

1. General: The primary land use of the project area consists of limited recreation, hunting, exploring, rock hounding and fossil collection. The lack of roads in the area restricts travel to hiking or horseback. Road construction and development would allow better access to the area thereby increasing the litter and environmental degradation usually associated with man's activities. Restricting access to project and support only would eliminate the impacts expected with public access to the area. The USFS Special Use permit would provide the operator with the option of restricting access or providing public access.

Information Source: USFS Staff Report, Field Observation.

2. Affected Floodplains and/or Wetlands: Several intermittent drainages would be crossed by access road construction. Allen Creek, the only perennial stream to be affected, would be crossed by the access road and a 30 inch culvert installed. No suitable alternate access route is available in the area and road construction over Allen Creek and its limited floodplain cannot be avoided. No wetlands would be affected by project implementation.

Information Source: USFS Staff Report, APD, Field Observation.

3. Roadless/Wilderness Area: N/A

Information Source: "Summary-Final Environmental Statement, Rare II", US Forest Service.

H. Aesthetics: The operation does not blend in with the local surroundings. Portions of the access road and its sideslopes would be visible from Utah State Highway 12, the main road to Escalante. The road is frequented during the summer by recreationists travelling between Bryce Canyon and Capitol Reef National Parks. The visible sideslopes should be constructed to meet a visual quality prescription of retention. Such activities may only repeat forms, lines, colors, and textures frequently found in the characteristic landscape. Changes in their qualities of size, amount, intensity, direction, pattern, etc., should not be evident. Any changes in the natural elements within the landscape should be mitigated during the construction phase or immediately after to meet the criteria for retention.

Although visual quality would be difficult to meet, the access route is presently in the best position possible to reduce effects seen from the highway. Using vegetation, rock outcrops, and cliffs to stabilize cuts and fills would reduce size and visibility. Any dark contrasting soils encountered during construction should be kept within the road prism and should not be pushed over the road edge where it would be visible. Maintaining existing vegetation as a road screen and revegetating cut and fill slopes following construction of the final road grade would also reduce visual impacts. Any possible permanent production equipment should be painted a color to blend in with the surroundings.

Information Source: USFS Staff Report, Field observation.

I. Socioeconomics: Escalante, Utah (population 700) has an economy based on ranching, agriculture, logging and sawmilling, public employment and energy related resources.

Logging and sawmilling are primary contributors to the local economy. Escalante Sawmills, Inc., is the major employer in the area, employing from 70 to 90 employees, depending on the season. Payroll for the mill was \$620,000 in 1979.

Income is also generated in the community by contracts and purchases made by logging industry, contracts for road maintenance, forest management contracts, leasing and energy exploration, development and construction.

The social structure of the community is a highly rural lifestyle. Planning for development, social goods and services, and social impacts that accompany a sudden increase in population have not been undertaken. However, the community is in need of development on a small scale to enhance the public schools and the economy in general.

On a national scale the discovery and development of energy resources are much sought after in order to obtain energy independence.

Presently the project area is free of litter and environmental degradation that are usually brought about by man's activities. The main reason for this is that there is no motorized vehicle access available. Man's use of the project area consists mainly of recreation in the form of hunting, exploring, rock hounding, and collecting of fossils.

Without the proposed Heaps Canyon drilling project, there will be no significant change in the local economy.

The "dirt" work (access and pad construction) will be contracted locally, thus boosting the community's income for a short period of time. The exploration project itself will have little impact on the social structure since the workers brought in to do the drilling will be small in number. This situation could change drastically if an energy field is found and developed.

A "boomtown" effect could be initiated from the development if the field is a relatively large discovery. The "boomtown" effect could be compounded if other local energy resources (coal, gas and oil, uranium and CO₂ gas) are developed simultaneously.

Whenever an area is opened to motorized vehicles and development, litter becomes a problem. Problems stem from the permittee's operation and the general public entering the area.

The operator should be held responsible for the disposal of all litter and foreign matter brought into the newly opened area. Limiting access to the area would reduce litter potential. If the well is abandoned, the access road should be cross-ditched, physically closed and rehabilitated.

Information Source: USFS Staff Report, Field Observation.

J. Cultural

Resources Determination: Based on the informal comments received from USFS on Sept. 4, 1980, we determine that there would be no effect on cultural resources.

The Escalante Area figures prominently in the prehistory of the region. Many recorded and reported archaeological sites are located in the area including pioneer sites as well as prehistoric American Indian sites. The sites are as diverse as old mining camps or homesteads and lithic scatters, pithouses, granaries and pictographs. The remnants of a granary are located along the cliff face North of Highway 12 approximately 1 mile East of the junction with the proposed access road.

The major impact on cultural resources concern construction and ground disturbances. Archaeological sites are abundant and diverse in the surrounding area of the proposed project.

The U.S. Forest Service conducted a preliminary archaeological field review of the flagged access road and drillsite on April 30, 1980. Four lithic scatters and a fossil rich area, carboniferous shellfish in the Wahweap Sandstone, were found to be impacted by the planned access route. No cultural resources were found at the drillsite. One lithic scatter is on a knollside in the access route on BLM land. The remaining cultural resources are on U.S. Forest Service land.

The access road was altered slightly during the archaeological survey performed by Power Elevation Co., and during the joint onsite inspection to avoid impacts to cultural sites. The archaeological report recommends the project be allowed to proceed, providing construction remains within the 50 ft. right-of-way on the flagged access route, in compliance with avoidance procedures. If any cultural resources are discovered during construction, work must halt in that area allowing time for the USFS to evaluate and reconcile the situation.

Information Source: USFS Staff Report, Field Observation, Powers Elevation Company-Cultural Resources.

K. Other: None

Information Source: Field Observation, APD, USFS Staff Report.

L. Adequacy of Restoration Plans: The restoration plans of the revised APD incorporated recommended mitigations provided by the USFS Staff reports as requested at the onsite inspection. The restoration plans address pad and road rehabilitation upon abandonment. The steep cuts and fills of portions of the road would be impossible to restore to original contours and permanent visual scars could remain if slope reseeding cannot be accomplished. Permanent closing and reseeding of the access road upon abandonment is recommended to allow sustained remoteness of the area. Evidence of road construction would, however, be probable.

Information Source: APD, USFS Staff Report, Field Observation.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with modifications incorporating recommended mitigation-Under Federal oil and gas leasing provisions the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. There are no severe environmental consequences at the site. Several concerns are evident along the access road; however, the route chosen poses the least threat to the environment. Furthermore, the mitigative measures presented in this assessment and in the revised APD as supplied and requested by the U.S. Forest Service would reduce potential impacts of the proposed action. At abandonment, rehabilitation of the area would provide an eventual return to near present status of the area.

- a. About 8 acres of vegetation would be removed, increasing and accelerating erosion potential.
- b. Pollution of groundwater systems could occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
- c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- d. The potential for fires, leaks, spills of gas and oil or water exists.
- e. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist, and could remain on a permanent basis along portions of the access road.
- g. Erosion from the site would eventually be carried as sediment into Allens Creek. The potential for pollution to nearby intermittent drainages and Heaps Canyon would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.
- i. Hydrocarbon production would cause erosional, air quality, noise, wildlife and aesthetic impacts with severity dependent on transportation methods.

2. Conditional approval

All adverse impacts described in section one above would occur, except:

- a. Disposal of all litter along the access road and drillsite would preserve the naturalness of the area.
- b. Painting any permanent production equipment a color to blend with the surroundings would reduce visual impacts.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

1. The operator will be responsible for the disposal of all litter and foreign matter brought into the newly opened area.
2. The access road may be closed to the public to limit access to a remote region.
3. Any permanent production equipment will be painted a color to blend in with the surroundings.
4. All mitigative measures presented in the revised APD as requested by the U.S. Forest Service must be adhered to.
5. Construction and rehabilitation of the wellsite and access road must be coordinated with the U.S. Forest Service, Escalante Ranger Station.
6. Logs shall be run behind the surface casing to identify potential coal in the Smoky Hollow Member of the Straight Cliffs Formation.
7. The U.S. Forest Service, Escalante Ranger Station, shall be notified at least 48 hours prior to commencement of construction activities.

Controversial Issues and Conservation Division Response:

None.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

E. L. Guy District Engr
Signature & Title of Approving Official

9/23/80
Date

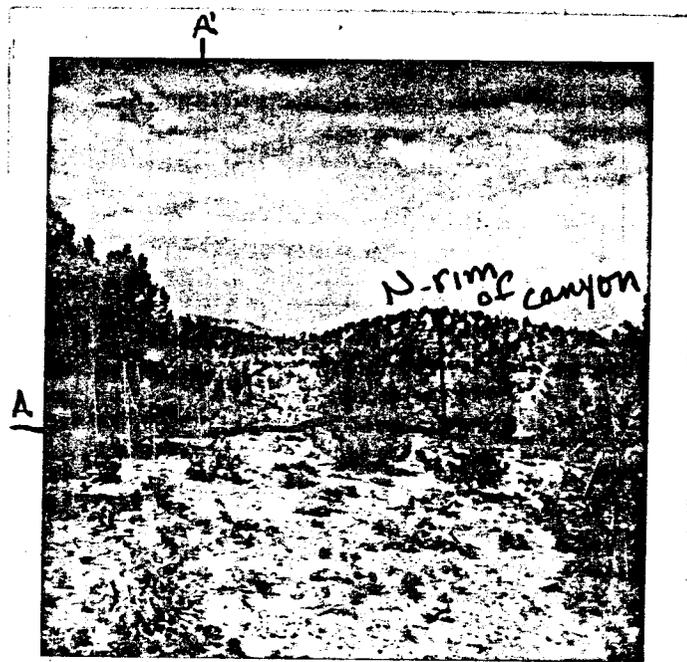
SELECTED REFERENCES

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- Bureau of Land Management, 1979, Final Initial Wilderness Inventory, Utah: U.S. Department of the Interior, BLM, Salt Lake City, Utah, 50 p.
- Bureau of Land Management, 1979, Intermin Management Policy and Guidelines for Lands Under Wilderness Review: U. S. Department of the Interior, BLM, Washington, D.C., 32 p.
- Keller, E. A. 1976, Environmental Geology: C. E. Merril Publishing Company, Columbus, Ohio. 488 p.
- Rocky Mountain Association of Geologists, 1972, Geologic Atlas of the Rocky Mountain Region: Denver, Colorado. 331 p.
- U.S. Geological Survey, 1979, Development of Coal Resources in Southern Utah, Final Environmental Statement: Department of the Interior, U. S. Geological Survey, Washington, D.C. 611 p.
- Wilson, LeMoyné, et.al, 1975, Soils of Utah: Agricultural experiment Station, Bulletin 492, Utah State University, Logan, Utah. 94 p.
- Zarn, Mark, 1977, Ecological Characteristics of Pinyon-Juniper Woodlands on the Colorado Plateau: U. S. Department of Interior, Bureau of Land Management, Technical Note 310, Denver, Colorado 183 p.
- U. S. Forest Service, 1979, Summary-Final Environmental Statement, RARE II: U.S. Department of Agriculture, Forest Service, FS 324, 55 p.
- U. S. Forest Service, 1973, National Forest Landscape Management Volume 1: Department of Agriculture, U. S. Forest Service, Gov't Printing Office, Washington. 76 p.

HEAPS
CANYON



↑
N



A-A' - NE Edge of Pad
Near Edge of Heaps Canyon

FROM: DISTRICT GEOLOGIST, E, SALT LAKE CITY, UTAH

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U 33917

OPERATOR: CITIES SERVICE CO.

WELL NO. 1

LOCATION: SW 1/4 NE 1/4 NE 1/4 sec. 27, T. 35 S, R. 1 E, SLM

GARFIELD County, UTAH

1. Stratigraphy:

<u>STRAIGHT CLIFFS FM</u>	
JOHN HENRY MEMBER	0
SMOKY HOLLOW MEMBER	100'
TIBBET CANYON MEMBER	400'
<u>TROPIC SHALE</u>	500'
<u>DAKOTA SANDSTONE</u>	1150'

<u>ENTRADA SS</u>	1566'
<u>NAVAJO SS</u>	3082'
<u>KAYENTA FM</u>	4619'
<u>WINGATE SS</u>	4938'
<u>CHINLE FM</u>	5159'
<u>MOENKOPE FM</u>	5702'
TIMPOWEAP MEM.	6484'
<u>KAIBAB LS.</u>	6576'

WHITE RIM SS	67
TOROWEAP FM	688
CEDAR MESA FM	742
ELEPHANT CANYON FM	830
HERMOSA GP	870
MOLAS FM	9115
REOWALL L.S.	9186
TD	10,000

2. Fresh Water:

FRESH OR USEABLE WATER MAY BE FOUND IN THE STRAIGHT CLIFFS FM (0-500'). USEABLE WATER MAY BE FOUND AS DEEP AS THE ENTRADA SS (1566')

3. Leasable Minerals:

OIL OR GAS IN: TIMPOWEAP MEM, MOENKOPE FM 6484', KAIBAB LS 6576', REOWALL LS 9186

COAL IN SMOKY HOLLOW MEMBER, STRAIGHT CLIFFS FM 100'-400'

4. Additional Logs Needed:

GR-FDC LOG FOR POSSIBLE COAL ZONES IN SMOKY HOLLOW MEMBER, STRAIGHT CLIFFS FM; BEHIND SURFACE CASING.

5. Potential Geologic Hazards:

NONE ANTICIPATED

6. References and Remarks:

WRD REPORT, T 35 S R 1 E S 34 UPPER VALLEY # 37
UGMS COAL MONOGRAPH; DOELLING
USGS COAL RESOURCE MAP # C60

Signature: Kenneth J. Self

Date: 6 - MAY - 1980

** FILE NOTATIONS **

DATE: April 29, 1980

Operator: Citis Service Company

Well No: Federal A #1

Location: Sec. 27 T. 35S R. 1E County: Marfield

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-017-30082

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: M.L. Minder 5-9-80 Will file request for topog. except. - Forest Service designated this location

Director: _____

Submitting NTH-6 4/29/80 C-3: top close to str. etc. both excepted location requested

APPROVAL LETTER:

Bond Required: Fed

Survey Plat Required:

Order No. _____

O.K. Rule C-3

#2

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

Lease Designation Fed

Plotted on Map

Approval Letter Written

ltnw

*hl
PI*



POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
800 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

April 30, 1980

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

RE: Application for Permit to Drill
Cities Service Company
Federal A #1
NE NE Sec. 27 T35S R1E
1236'FNL & 839'FEL
Garfield County, Utah

RECEIVED
MAY 5 1980

DIVISION OF
OIL, GAS & MINING

Gentlemen:

The above-referenced location was filed on April 24 but we neglected to include the location and elevation plat, the ten-point compliance program and the diagram of the blowout preventer equipment. Attached are those items mentioned.

As referred to before, please return the approved copies to:
Ed Wilder
Cities Service Company
P.O. Box 1919
Midland, Texas 79702

Sincerely yours,

POWERS ELEVATION

Chris Worsham

Chris Worsham

Enclosure



POWERS ELEVATION

OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
600 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 303/321-2217

May 5, 1980

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

RE: Exception to Rule C-3
Cities Service Company
Fedreal "A" #1
NE NE Sec. 27 T35S R1E
1236' FNL & 839' FEL
Garfield County, Utah

RECEIVED
MAY 7 1980

DIVISION OF
OIL, GAS & MINING

Dear Sirs:

Cities Service Company hereby requests an exception to Rule C-3 for the above-captioned well location.

The location is 84 feet from the South line and 481 feet from the West line of the NE $\frac{1}{4}$ NE $\frac{1}{4}$ (as shown on the location and elevation plat). The location was placed there due to topographic difficulties and the U.S. Forest Service requested that the location be staked there.

Within the 660 foot radius, Cities Service Company owns the entire lease in Section 27, T35S, R1E (Lease #U-33917); therefore, no other lease holders are involved.

Approval of this exception to Rule C-3 would be greatly appreciated.

Thank you.

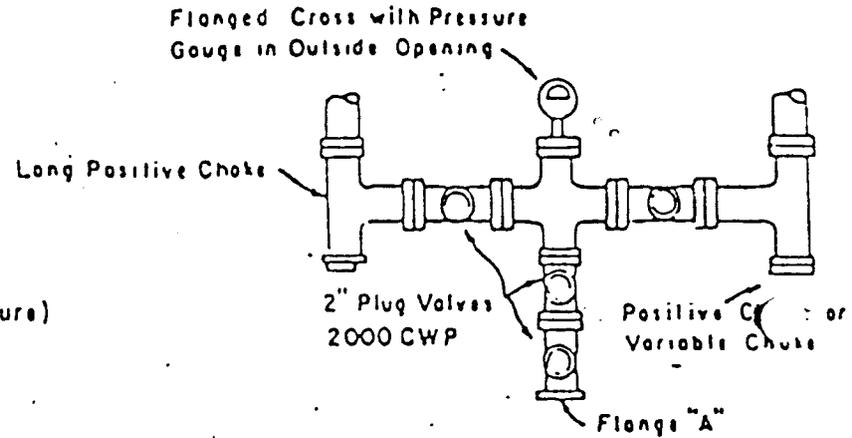
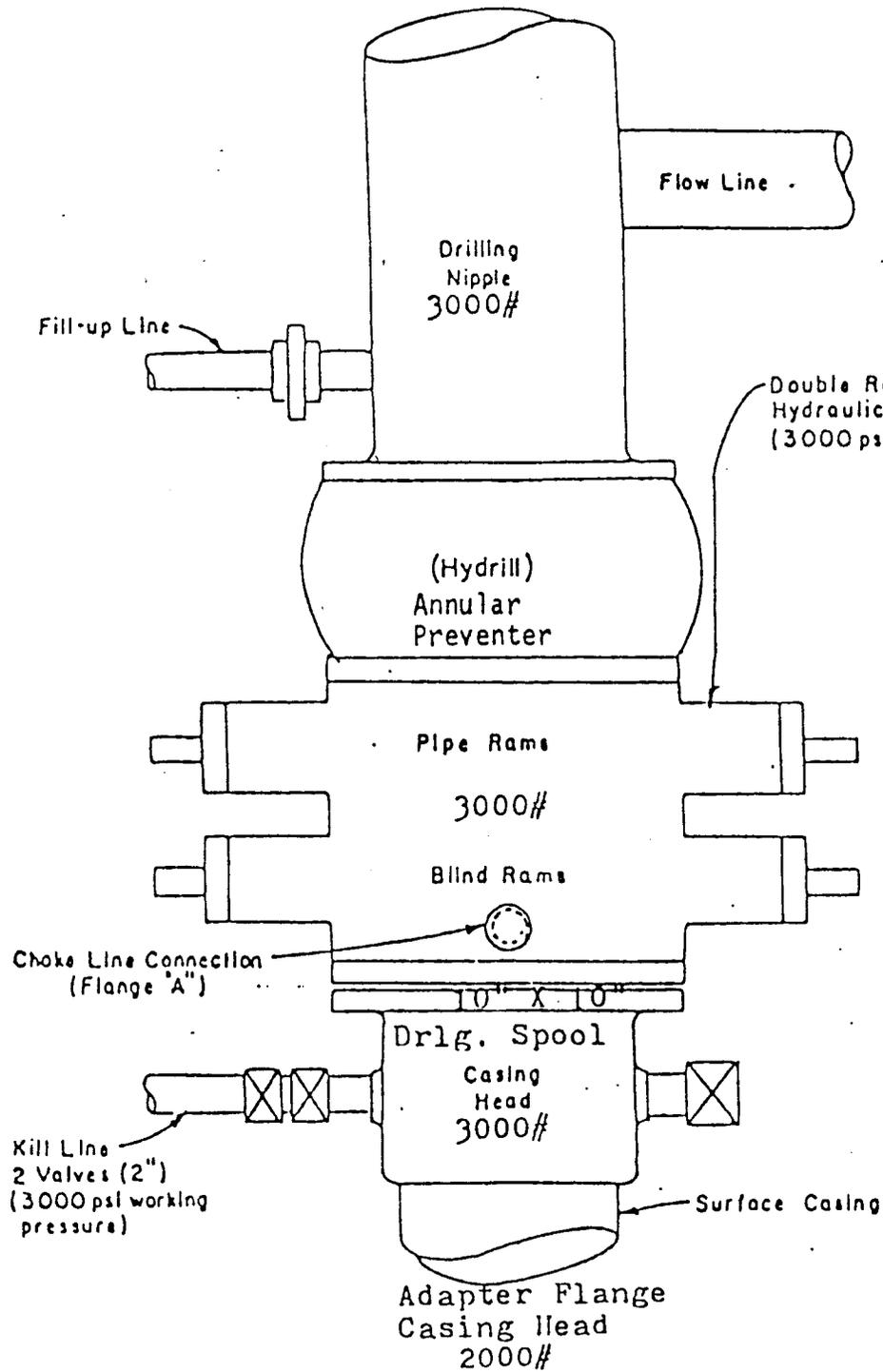
Sincerely,

POWERS ELEVATION

Darryl Cooper
Darryl Cooper

DC:vg
Enclosures

cc: Mr. Ed Wilder, Cities Service Company, Midland, Texas



PLAN VIEW - CHOKER MANIFOLD

*A. Rafoul USGS approved 3000#
BOP in phone call 5-6-80
M.J.H.*

EXHIBIT C
 BLOWOUT PREVENTER
 DIAGRAM

May 22, 1980

Cities Service Company
P.O. Box 1919
Midland, Texas 79702

Re: Well No. Federal A #1
Sec. 27, T. 35S, R. 2E.,
Garfield, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), 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.

T The API number assigned to this well is 43-017-30082.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/b:tm

cc: USGS

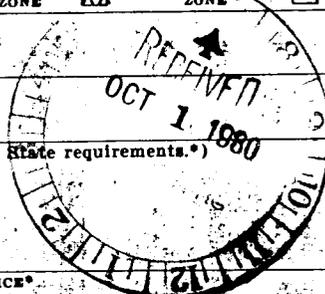
DUPLICATE
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-33917	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR Cities Service Company		7. UNIT AGREEMENT NAME N/A	
3. ADDRESS OF OPERATOR P.O. Box 1919, Midland, Texas 79702		8. FARM OR LEASE NAME Federal A	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1236' FNL & 839' FEL (NE NE)		9. WELL NO. #1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12.8 miles Southwest of Escalante, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 839'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27 T35S R1E	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2640'+		12. COUNTY OR PARISH Garfield	
19. PROPOSED DEPTH 10,000'		13. STATE Utah	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7304' GR		17. NO. OF ACRES ASSIGNED TO THIS WELL 80	
20. ROTARY OR CABLE TOOLS Rotary		22. APPROX. DATE WORK WILL START* as soon as approved	



PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	10-3/4" new	40.5&45.5K-55S	T&C 3000'	2500 sacks Halliburton Lite
9-1/2"	7-5/8" new	26.4K-55N-80 L	T&C 6750'	300 sacks Class H
6-1/2"	5-1/2" new	17# N-80 SFJ	Hydril 10,000'	200 sacks Class H

1. Set 40' of 20" galvanized corrugated iron pipe with spudder rig and cement in place.
2. Drill 17-1/2" hole and set 10-3/4" surface casing to 3000' with good returns.
3. Drill 9-1/2" hole and set 7-5/8" intermediate casing to 6750' and cement.
4. Log B.O.P. checks in daily drill reports and drill 6-1/2" hole to 10,000'.
5. Run tests if warranted and run 5-1/2" casing if productive.
6. Run logs as needed and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- | | | | |
|---|--|-----|---------------------------|
| "A" | Location & Elevation Plat | "H" | Drill Rig Layout |
| "B" | The Ten-Point Compliance Program | "K" | Fracturing Program Layout |
| "C" | The Blowout Preventer Diagram | | |
| "D" | The Multi-Point Requirements for A.P.D. | | |
| "E" & "E ₁ " "E ₂ " | Access Road Maps to Location | | |
| "F" | Radius Map of Location | | |
| "G" | Drill Pad Layout, Production Facilities & Cut-Fill Cross Section | | |

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 Region Operations Manager DATE 4/24/80

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY (Orig. Sgd.) R. A. Henricks TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE SEP 29 1980
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY
*See Instructions On Reverse Side

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 44
DATED 1/1/80

NOTICE OF APPROVAL

Production Facilities and Flowline NOT Approved

Utah State Oil & Gas

SURFACE OCCUPANCY STIPULATION

1. Lessee agrees not to enter upon the lease area or disturb the surface for exploration or drilling purposes until either:
 - (a) An inventory of archeological, paleontological, and historical sites is made by the surface management agency or its designated representative, or
 - (b) Lessee has made or caused to be made an inventory of all archeological, paleontological, and historical sites in those areas of the lease subject to development, occupancy, or surface disturbance. The survey must be made by a qualified archeologist acceptable to the surface management agency and the results of this survey provided to the surface management agency. Costs of this survey will be borne by the lessee. After inventory by either lessee's archeologist or the surface management agency, reasonable conditions of use will be prepared to protect the sites or salvage objects of antiquity in accordance with the Antiquities Act of June 8, 1906 (34 Stat. 225; 16 USC 431), and the Historical Sites Act of August 21, 1935 (49 Stat. 666; 16 USC 461-467). Costs of salvage of artifacts will be borne by the lessee and all objects of antiquity salvaged will remain the property of the U. S. Government.

2. No occupancy of the surface in the following areas is authorized by this lease. The lessee may employ directional drilling to develop the oil and gas resources under these areas, provided that such drilling or other works will not disturb the surface area or otherwise interfere with their use by the surface management agency. The areas to be excluded from surface occupancy unless specifically approved in the operating plan are:
 - (a) Within 500 feet on either side of the centerline of any and all roads and/or highways within the lease area.
 - (b) Within 200 feet on either side of the centerline of any and all designated trails within the lease area.
 - (c) Within 500 feet of the normal high waterline of any and all streams, lakes, ponds, and reservoir located within the lease area.
 - (d) Within 400 feet of any and all springs within the lease area.
 - (e) Within 400 feet of any improvements either owned, permitted, leased, or otherwise authorized by the surface management agency.

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
Box 246
Escalante, UT 84726

2820
September 15, 1980



Mr. Ed Guynn, District Engineer
2000 Administration Building
1745 West 1700 South
Salt Lake City, UT 84138

Attn : George Diwachak

Dear Ed,

Enclosed is a copy of the signoff sheet showing Forest Service approval of Cities Service's Heaps Canyon Project. We enjoyed working with you on this project and if we can be of further service please contact us.

Sincerely,

for
PHILIP H. BAYLES
District Forest Ranger

Enclosure

1. The operator will be responsible for the disposal of all litter and foreign matter brought into the newly opened area.
2. The access road may be closed to the public to limit access to a remote region.
3. Any permanent production equipment will be painted a color to blend in with the surroundings.
4. All mitigative measures presented in the revised APD as requested by the U.S. Forest Service must be adhered to.
5. Construction and rehabilitation of the wellsite and access road must be coordinated with the U.S. Forest Service, Escalante Ranger Station.
6. Logs shall be run behind the surface casing to identify potential coal in the Smoky Hollow Member of the Straight Cliffs Formation.
7. The U.S. Forest Service, Escalante Ranger Station, shall be notified at least 48 hours prior to commencement of construction activities.

Controversial Issues and Conservation Division Response:

None.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

Philip H. Bayle
Signature & Title of Approving Official

9-11-80
Date

Cities Service Co.

George

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. _____

1. The location appears potentially valuable for:

strip mining*

underground mining** *coal*

has no known potential.

2. The proposed area is

under a Federal lease for _____ under the jurisdiction of this office.

not under a Federal lease under the jurisdiction of this office.

Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen J. Vance*

April 14, 1981

Cities Service Company
P.O. Box 1919,
Midland, Texas 79702

Re: Well No. Federal #1 A
Sec. 27, T. 35S. R. 1E.
Garfield County, Utah

Gentlemen:

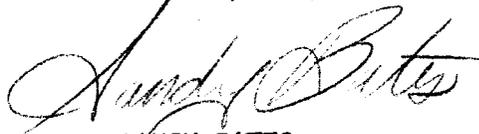
In reference to above mentioned well, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING



SANDY BATES
CLERK-TYPIST

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

PRINT IN TRIPLICATE*
(See instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION AND SERIAL NO. U-33917
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
		7. UNIT AGREEMENT NAME
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		8. FARM OR LEASE NAME FEDERAL A
2. NAME OF OPERATOR Cities Service Company		9. WELL NO. 1
3. ADDRESS OF OPERATOR Box 1919, Midland, TX 79702		10. FIELD AND POOL, OR WILDCAT Wildcat
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1236' FNL & 839' FEL (NENE) of Sec 27-T35S-R1E Garfield County, Utah		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 27-T35S-R1E
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7304' GR	12. COUNTY OR PARISH 13. STATE Garfield UT

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

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

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.)*

T.D. 3135' Shale prep to drill ahead. MIRU rotary & spudded 12 1/4" hole @ 0420 MST on 3/18/81 & drld to a T.D. of 3137' in Shale. Reamed a 12 1/4" hole to 17 1/2" hole to a T.D. of 3135' in Shale. Ran & set 23 jts (895.30') 10-3/4" OD 45.5# K55 & 54 jts (2216.70') 10-3/4" OD 40.5# K55 csg w/74 jts (2514') 2-1/16" parasite string @ 3135' & cmtd w/2550 sacks Halco Lite w/1/4# Flocele, 5# Gilsonite & 3# salt/sack & 2% CaCl₂ + 200 sacks Class B w/1/4# Flocele & 1.3# salt/sack cmt. Plug down @ 0040 MST on 4/20/81. Circulated approx. 100 sacks of cmt to surface. Ran 2514' of 2-1/16" IJ tbg & strapped to 10-3/4" OD csg w/connection @ 2515'. Circulated thru parasite tbg string both before and after cementing. WOC 48 hrs.

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

SIGNED D. F. [Signature] TITLE Region Opr. Mgr. - Drlg. DATE 4-23-81

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Cities Service Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 1919 - Midland, Texas 79702</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1236' FNL & 839' FEL (NE NE) of Sec. 27-T35S-R1E, Garfield County, Utah</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-33917</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Federal A</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T. R., M., OR BLK. AND SURVEY OR AREA Sec. 27-T35S-R1E</p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7304' GR</p>	<p>12. COUNTY OR PARISH Garfield</p> <p>18. STATE Utah</p>

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 checked="" 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) _____	

(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.)*

T.D. 7234' Dolomite. Prep to drill ahead. Drilled a 9-1/2" hole from 3135' to a T.D. of 7234' in Dolomite. Ran and set 30 Jts. (1226.66') 7-5/8"OD 26.4# JL 95, 26 Jts. (1042.45') 7-5/8"OD 26.4# N80 and 55 Jts. (2177.27') 7-5/8"OD 26.4# K55 of casing liner @ 2783 - 7229' (352' overlap) and cemented with 550 sacks of Halco Lite w/6# Gilsonite & 1/4# Flocele/sack + 300 sacks of Class B Thick Set w/6# Gilsonite & 1/4# Flocele/sack cement. Plug down @ 0405 MDT on 5-18-81. Drilled flapper valve @ top of liner. Drilled float collar, shoe joint and shoe. WOC a total of 36 hrs.

RECEIVED
MAY 26 1981

DIVISION OF
OIL, GAS & MINING

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

SIGNED P. L. Purley TITLE Region Opr. Mgr. - Drlg. DATE 5-19-81

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-33917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal A

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 27-T35S-R1E

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
CITIES SERVICE COMPANY

3. ADDRESS OF OPERATOR
P. O. Box 1919 Midland, Texas 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 1236' FNL & 839 FEL (NE NE) of Sec. 27-T35S-R1E, Garfield County, Utah

14. PERMIT NO.

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

7304' GR

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) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input checked="" 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) <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.)*

T.D. 10425' Dolomite & Shale. Waiting on Completion unit. Drilled a 6-1/2" hole from 7,234' to a T.D. of 10,425' in Dolomite & Shale. Ran and set 86 jts. (3385.77') 5-1/2" OD 16.8# N-80 Hydril SFJ csg. liner @ 7036-10,422' and cemented with 169 sacks of Halco Lite w/12% Gel, 6-1/4# Gilsonite, 3/4 of 1% CFR 2, 0.6 of 1% Halad 9 & 5% KC 1/sack cement. Plug down @ 1300 MDT on 6-19-81. Set retainer @ 6906'. Cemented top of liner w/125 sacks of 50-50 Poz A Class 5 w/4% Gel 6-1/4# Gilsonite, 3/4 of 1% CFR - 2 & 0.6 of 1% Halad 9/sack cement. PU out of retainer and left 10 sacks of cement on top of retainer set @ 6906'. Ran 65 jts. (2783') 7-5/8" OD 26.4# K55 csg and set in sleeve of 7-5/8" OD liner cemented @ 2783-7229'.

RECEIVED
JUN 23
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct.
SIGNED E. J. [Signature] TITLE Reg. Oper. Mgr.-Prod. DATE 6-26-81

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Temp. Aban.

b. TYPE OF COMPLETION:
NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR

CITIES SERVICE COMPANY

3. ADDRESS OF OPERATOR

P. O. Box 1919 Midland, Tx. 79702

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

At surface 1236' FNL & 839' FEL (NE NE) of Sec. 27-T35S-R1E,

At top prod. interval reported below Garfield Co., Utah

At total depth Same as above

14. PERMIT NO. DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO.

U-33917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal "A"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 27-T35S-R1E

12. COUNTY OR PARISH

Garfield

13. STATE

Utah

15. DATE SPUDDED 3-18-81 16. DATE T.D. REACHED 6-14-81 17. DATE COMPL. (Ready to prod.) Temp. Aban. 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7304' GR 19. ELEV. CASINGHEAD 7304'

20. TOTAL DEPTH, MD & TVD 10,425' 21. PLUG, BACK T.D., MD & TVD 6642' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS 10-T.D. 11,425'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN Deviation Svy., Dual Induction-SFL, CN-FD, Bore hole compensated sonic, Prox. log-microlog

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
10-3/4"	40.5 & 45.5	3135'	17 1/2"	2550 sacks	circulated
(Ran 2514' of 2-1/16" IJ parasite tbg. strapped to 10-3/4" csg.)					

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7-5/8"	2783'	7229'	850				
5-1/2"	7036'	10422'	394				

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

~~Temporarily abandoned~~

Operation suspended

~~II~~

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

Above listed logs and Deviation Survey

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

SIGNED

Elmer Stutz

TITLE

Reg. Oper. Mgr.-Prod.

DATE

10-2-81

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 33, 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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
NO CORES OR		DST'S WERE TAKEN	

38.

GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Kayenta	4,778		
Wingate	5,128		
Chinle	5,383		
Shinapomp	5,794		
Moenkopi	5,932		
Timpoweap	6,710		
Kaibab	6,852		
Mississippian			
Red Wall	9,386		

AFFIDAVIT

State of TEXAS CITIES SERVICE Company

County of MIDLAND Lease Name Federal "A" Well # 1

In Sec. 27 Twp. 35S Rge. 1E

County of GARFIELD

State UTAH

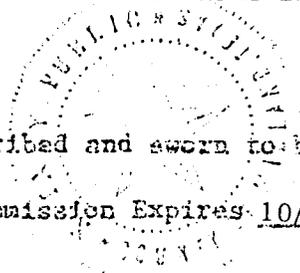
Elmer Startz of lawful age being first duly sworn deposes and

says:

That he supervises development and operation of the captioned lease and is duly qualified and authorized to make this affidavit and is fully acquainted with all facts herein set out concerning Deviation and Directional drilling.

<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>	<u>Degrees</u>	<u>Depth</u>
.00	187	.75	3,827	3.50	7,303	2.25	9,361
.75	408	1.25	4,016	2.00	7,583	2.00	9,517
.75	604	1.50	4,235	1.50	8,019	2.00	9,933
.75	810	1.75	4,392	1.50	8,096		
.50	1,030	2.25	4,578	1.75	8,152		
.50	1,343	2.00	4,674	3.50	8,310	T.D.	10,425
.50	1,667	2.75	4,896	4.50	8,462		
.25	1,919	2.25	5,081	4.25	8,532		
.75	2,229	1.75	5,266	4.50	8,584		
1.00	2,501	1.25	5,550	4.25	8,655		
.75	2,815	1.75	5,865	4.50	8,749		
.75	3,137	1.00	6,138	3.50	8,841		
1.75	3,217	1.25	6,400	3.25	8,932		
1.50	3,430	1.25	6,630	2.75	9,046		
1.50	3,605	3.00	6,928	2.75	9,204		

Further affiant saith not.



Elmer Startz

Subscribed and sworn to before me this 2nd day of OCTOBER, 19 81

My Commission Expires 10/31/84 Christine Hankins Notary Public
Midland County, Texas

Completion Report Received

P&A

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-33917

SUNDRY NOTICES AND REPORTS ON



(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.)

INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Temporarily Abandoned		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR CITIES SERVICE COMPANY		8. FARM OR LEASE NAME FEDERAL "A"	
3. ADDRESS OF OPERATOR P. O. Box 1919 Midland, Tx. 79702		9. WELL NO. 1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1236' FNL & 839' FEL (NE NE) of Sec. 27-T35S- R1E, Garfield County, Utah		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 27-T35S-R1E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7304' GR		12. COUNTY OR PARISH Garfield	13. STATE Utah

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) <u>Well Completion Data</u> <input checked="" type="checkbox"/>	

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

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

T.D. 10,425' Dolomite & Shale. P.B.T.D. 6642' temporarily abandoned. MIRU completion Unit and DO to 10,336'. Perforated Miss. Dolo. w/2 SPF @ 10,107, 10,111, 10,112, 10,114, 10,116, 10,117, 10,118 & 10,119' (Total 16-0.50" Entrance holes w/23" penetration). Ran and set 2-7/8" OD tubing @ 10,042' with a packer set @ 10,012'. Swabbed 5 BW/2 hrs. w/no show of oil and swabbed dry. Acidized Miss. perms 10,107-10,119' w/4000 gals 28% MSR 100 acid w/additives. Max press 2500#, Min press vacuum, form broke @ 2500#, AIR 1 BPM, ISIP vacuum. Swabbed 90 BW/6 hrs w/no show of oil. Pulled tbg. & packer. Set a Ret. @ 10,080 and squeezed Miss. perms 10,107-10,119' with 300 sacks of Class B w/0.6% Halad 9 cement in 2 stages. CO to top of ret. set @ 10,080' and perforated the Miss. Dolo. w/2 SPF @ 10,061, 10,064, 10,067, 10,069 & 10,071' (Total 10-0.40" Entrance holes w/23" penetration). Ran and set 2-7/8" OD tbg. @ 9998' with a packer set @ 9962'. Swabbed 6 Bw/8 hrs. with no show of oil and swabbed dry. Acidized Miss. perms 10,061-10,071' w/4000 gals 28% MSR 100 acid w/additives. Form broke @ 200#. Max press 200#, min. vacuum AIR 1 BPM, ISIP vacuum. 14 hr. SITP 25# swabbed 250 Bw/11 hrs. with no show of oil. Pulled tbg. and packer. Set a 5 1/2" CIBP @ 10,025' and dumped 2 1/2 sacks of cement on top of BP (26' fill). Set a 7-5/8" CIBP @ 7034' and dumped 6 sacks of cement on top of BP for a new PBTD of 7004'. Perforated 2 squeezed holes @ 6976' & squeezed w/300 sacks of Class B w/0.6% Halad 9 & 2% CaCl₂ cement. DO to 7004'. perforated the White Rim sandstone w/2 SPF @ 6972, 6973, 6974, 6975, & 6976' (Total of 10-0.40" entrance holes w/14" penetration). Ran and set 2-7/8" OD tbg. @ 6914' with a packer set @ 6884'. Swabbed 30 BW/2 hrs. and swabbed dry. Acidized White Rim perms 6972-6976' (please see back)

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

SIGNED Elmer Stutz TITLE Reg. Oper. Mgr.-Prod. DATE 10-2-81

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

w/1000 gals 15% HCl acid w/additives. Form broke @ 600#, AIR 4.5 BPM, ISIP vacuum. Swabbed 50 BW/4 hrs. with no show of oil or gas. Pulled tbg. and packer. Set a RTTS Tool @ 6714' and squeezed White Rim perms 6972-6976' w/150 sacks of Class B w/2% CaCl₂ cmt. Released RTTS tool @ 6714' and pulled out of hole. DO to 6930'. Perforated the Kaibab Dolomite w/2 SPF @ 6902' thru 6911' (Total 20-0.40" entrance holes w/18" penetration). Ran 2-7/8" tbg. with a packer set @ 6714'. Swabbed load and swabbed dry with no show of oil or gas. 72 hr. SITP 30#. Swabbed 7BW/1 hr. with a trace of oil. Acidized Kaibab perms 6902-6911' w/1000 gals 28% HCl acid w/additives. Max press 800#, min. 450#, AIR 2.5 BPM, ISIP vac. Swabbed 4 BO + 197 BW/ 11 hrs. Grav. 12.0° @ 85° F. Swabbed Tr. Oil + 200 BW/9 hrs. Pulled tbg. and packer. Set a ret. @ 6736' and squeezed Kaibab perms @ 6902-6911' w/150 sacks of Class B neat. DO to 6851'. Perforated the Timpoweap w/2 SPF @ 6727, 6730, 6735, 6739, 6742, 6774, 6776, 6779, 6783, 6798, 6801, 6807, 6813 & 6817' (Total 28-0.40" entrance holes w/18" penetration). Ran and set 2-7/8" OD tbg. @ 6690' with a packer set @ 6666'. Swabbed load with no show of oil. Acidized Timpoweap perms 6727-6817' w/1000 gals 15% HCl acid w/additives. Max. press 100#, Min vacuum, AIR 1 BPM, ISIP vacuum. Swabbed Tr oil + 46 BW/ 11 hrs. Re acidized Timpoweap perms 6727-6817' w/5000 gals 15% NE acid w/additives. Max press 2900#, Min 600#, AIR 5.5 BPM, ISIP 0#. Swabbed 1 BO + 209 BW/11 hrs., Grav. 12.5° @ 60°F. Swabbed 1/4 BO + 68 BW/4 hrs. Pulled tbg. and packer. Set a Ret. @ 6672' and squeezed Timpoweap perms 6726-6817'. Pulled out of Ret. set @ 6672' and dumped 10 sacks of cement on top for PBTD of 6642'. Installed tbg hanger flange and valve on well head and closed well in.



STATE OF UTAH
 NATURAL RESOURCES & ENERGY
 Oil, Gas & Mining

Scott M. Matheson, Governor
 Temple A. Reynolds, Executive Director
 Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 20, 1982

Cities Service Company
 P. O. Box 1919
 Midland, Texas 79702

Re: Well No. Federal #A-1
 Sec. 27, T. 35S, R. 1E
 Garfield County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office October 2, 1982, from above referred to well, indicates the following electric logs were run: Deviation Svy, (Dual Induction-SFL), CN-FD, Bore hole Compensated Sonic, Prox. log-microlog. As of todays date, this office has not received these 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 logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
 Clerk Typist

*monitored dipmeter log
 not computed*

LOGS + DEVIATION SVY. MARCH 5-21-82



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 23, 1982

Cities Service Company
P. O. Box 1919
Midland, Texas 79702

Re: Well No. Federal #A-1
Sec. 27, T. 35S, R. 1E.
Garfield County, Utah

Gentlemen:

The above referred to well has been currently under a temporarily abandoned status for six months or longer. Please inform this office of the current status of this well location and send in the necessary required papers.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Clerk Typist



CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP

Box 1919
Midland, Texas 79702
(915) 685-5600

May 7, 1982

State of Utah Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Well Status of Cities Service
Company's Federal A Well No. 1,
Section 27-T35S-R1E, Garfield
County, Utah

Gentlemen:

In reference to your letter of April 23, 1982, regarding the status of the above captioned well, please be advised that it is still in a temporarily abandoned status.

Cities Service has filed for the drilling of their Federal B Well No. 1, Section 15-T35S-R1E, Garfield County, and the Federal A Well No. 1 will be used as a water disposal well if and when it should become necessary.

With these future plans, the Federal A Well No. 1 still remains in a temporarily abandoned status.

*They are just sitting
on this well, so it is
considered - operation
suspended.*

Very truly yours,

CITIES SERVICE COMPANY

Elmer Startz

Elmer Startz
Region Operations Manager - Prod.
Southwest Region
E & P Division

ES:JME:jme

RECEIVED

MAY 17 1982

DIVISION OF
OIL, GAS & MINING



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

November 10, 1982

Cities Services Company
Energy Resources Group
P. O. Box 1919
Midland, Texas 79702

Re: Well No. Federal A-1
Sec. 27, T. 35S, R. 1E.
Garfield County, Utah

Gentlemen:

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Clerk Typist

CF/cf



CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP

Box 1919
Midland, Texas 79702
(915) 685-5600

November 16, 1982

State of Utah Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Well Status of Cities Service
Company's Federal A Well No. 1,
Section 27-T35S-R1E, Garfield
County, Utah

Gentlemen:

In reference to your letter of November 10, 1982, regarding the status of the above captioned well, please be advised that it is still in a temporarily abandoned status.

Cities Service Company is now drilling their Federal A Well No. 2, also located in Section 27-T35S-R1E, Garfield County, and the Federal A Well No. 1 will be used as a water disposal well if and when it should become necessary.

With these future plans, the Federal A Well No. 1 still remains in a temporarily abandoned status.

Very truly yours,

CITIES SERVICE COMPANY

Elmer Startz

Elmer Startz
Region Operations Manager - Production
Southwest Region
E & P Division

ES:JME:jme

*Write
May 82*

RECEIVED
NOV 23 1982

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Cities Service Oil and Gas Corporation

3. ADDRESS OF OPERATOR
P.O. Box 1919 - Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1236'FNL & 839'FEL (NE NE)
AT TOP PROD. INTERVAL: Same as above
AT TOTAL DEPTH: Same as above

5. LEASE
U-33917 ✓

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal A

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27-T35S-R1E

12. COUNTY OR PARISH
Garfield

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7304' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON* ✓
- (other)

SUBSEQUENT REPORT OF:

-
-
-
-
-
-
-
-
-
-

RECEIVED
JUL 03 1983

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

DIVISION OF
GAS & MINING

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.)*

O.T.D. 10,425' Dolomite & Shale, OPBTD 6642'. It is proposed to plug and abandon this well in the following manner:

1. MIRU pulling unit and ND WH & NU BOP.
2. RIH w/open ended tubing to OPBTD 6642' and circulated hole w/9.5# mud laden fluid.
3. Spot a 50 sack cement plug @ approx. 6642 - 6400'. POOH.
4. RU casing jacks and weld on lift nipple. PU 7-5/8" casing off slips and PO of liner hanger @ 2738'. POOH & LD 7-5/8" casing and tie-back stem.
5. Perforate 2 squeeze holes @ 3200'. RIH w/7-5/8" cement retainer on 2-3/8" tubing and set retainer @ approx. 3100'. PO of retainer and circulate hole w/9.5# mud laden fluid. Stab into retainer @ approx.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

Prod. _____ (See reverse side)

SIGNED Elmer Startz TITLE Reg. Opr. Mgr. - DATE June 20, 1983

(This space for Federal or State office use)

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

RECEIVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: _____
BY: _____

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Cities Service Oil & Gas Corporation

3. ADDRESS OF OPERATOR
Box 1919, Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1236' FNL & 839' FEL (NENE)
AT TOP PROD. INTERVAL: Same as above
AT TOTAL DEPTH: Same as above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input checked="" type="checkbox"/>
(other)	

5. LEASE
U-33917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal A

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27-T35S-RIE

12. COUNTY OR PARISH Garfield 13. STATE Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7304' GR

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

TD 10425' Dolomite & Shale, PBTD 6642'. This well was plugged and abandoned in the following manner:

See reverse side.

ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 8/9/83
BY: [Signature]

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct
SIGNED Elmer Stutz Region Operations TITLE Manager - Prod. DATE August 8, 1983

(This space for Federal or State office use)

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

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement plugs; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of packing of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

GPO : 1981 O - 347-166

1. MIRU pulling unit. ND WH & PU csg. to 145,000# would not come free.
2. RU & ran free pt. RIH w/jet cutter & cut off csg. @ 2758'. POOH.
3. RIH w/tbg. and tagged top of cement plug @ 6642'. Circ. hole w/mud laden fluid. Spotted a 50 sack Cl H cmt. plug from 6642 - 6400'. POOH. Perf. 4 sqz. holes 3320 - 3323'. RIH w/pkr. & tbg. set @ 3091'. Est. IR @ 5BPM @ 1200#. POOH. RIH w/cmt. retainer & tbg. set @ 3090'. Mixed & pumped 100 sacks Cl H cmt. & displ. below retainer & thru sqz. holes @ 800#. PO of retainer. Spotted a 45 sack Cl H cmt. plug on top of retainer 3090 - 2900' in csg. Pulled tbg. to 2515'. RO no cmt. Pulled tbg. to 188'. Circ down parasite string & out tbg. @ 3 BPM @ 400#. Mixed & pumped 80 sacks Cl H cmt. down parasite string & closed tbg. valve. Left parasite string full of cmt. & cmt. plug in csg. from 2515 - 2400'. POOH.
4. RIH w/ tbg. & tagged cmt. plug @ 2390'. Pulled tbg. to 200' set an 80 sack cmt. surface plug from 200' - surface. ND BOP. CO WH & parasite tbg. 4' below GL.
5. Installed a dry hole marker to designate a plugged & abandoned location.

BLM notified but did not witness plugging procedure.

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

5. LEASE DESIGNATION AND SERIAL NO.

U-33917

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal A

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 27-T35S-RIE

12. COUNTY OR PARISH
Garfield

13. STATE
Utah

15. DATE SPUNDED

3-18-81

16. DATE T.D. REACHED

6-14-81

17. DATE COMPL. (Ready to prod.)

Plugged & abandoned

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

7304' GR

19. ELEV. CASINGHEAD

7304'

20. TOTAL DEPTH, MD & TVD

10,425

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

-

22. IF MULTIPLE COMPL., HOW MANY*

-

23. INTERVALS DRILLED BY

→

ROTARY TOOLS

CABLE TOOLS

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

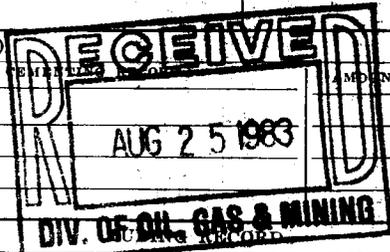
25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	AMOUNT PULLED



29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

See original completion report dated 10-2-81

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 Elmer Stutz TITLE Region Oper. Mgr. - Prod DATE 8-11-83

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

*Well completion being filed to report plugging and abandonment only