

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL                       DEEPEN                       PLUG BACK

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

2. NAME OF OPERATOR  
 Diamond Shamrock

3. ADDRESS OF OPERATOR  
 Drawer E Vernal, Utah 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At proposed prod. zone  
 700' FEL 2050' FNL Section 10, T9S, R16E, S.L.B. & M.  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 15 miles Southwest Myton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 700'

16. NO. OF ACRES IN LEASE  
 1360

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 40' East  
 70' North

19. PROPOSED DEPTH  
 3100'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5594'

22. APPROX. DATE WORK WILL START\*  
 A.S.A.P.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	32#	250'	Circulate to surface
7 7/8"	5 1/2"	15.5# K	0-T.D.	300 Sacks

Drill to 12 1/4" to approximately 250' set 8 5/8" casing set up BOP as required and pressure test. Drill 7 7/8" hole to approximately 3100' T.D. if production is feasible set 5 1/2" production casing.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
 DATE: 12/3/80  
 BY: CB Ferguson

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 Bruce E. Elliott TITLE District Superintendent DATE Dec 1, 1980

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

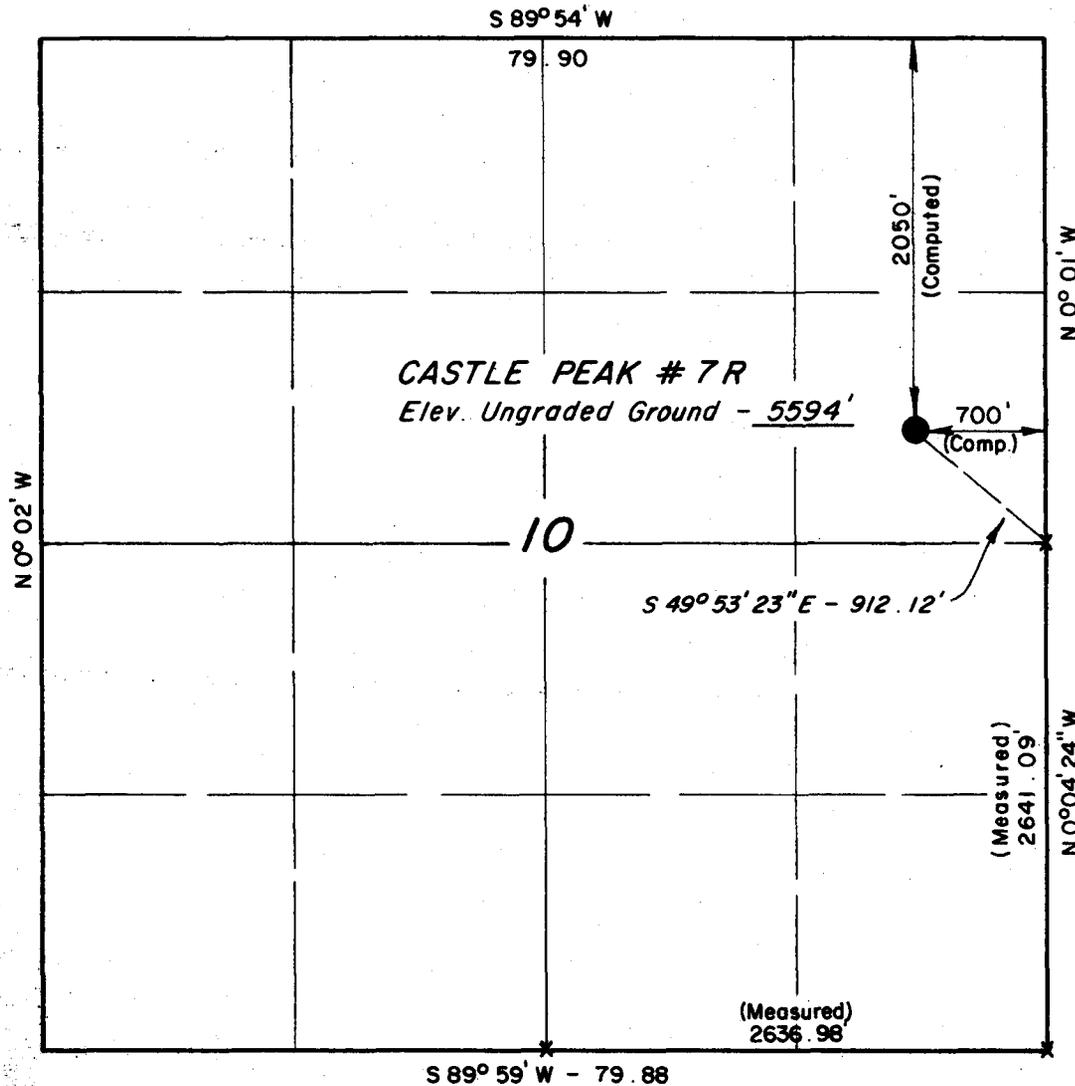
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

T 9 S, R 16 E, S.L.B. & M.

PROJECT  
DIAMOND SHAMROCK

Well location, *CASTLE PEAK # 7 R*,  
located as shown in the SE 1/4 NE 1/4  
Section 10, T 9 S, R 16 E, S.L.B. & M.  
Duchesne County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Gene Stewart*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO 3154  
STATE OF UTAH

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

SCALE 1" = 1000'	DATE 11 / 30 / 80
PARTY G.S., G.S., S.H.	REFERENCES B.F.W. GLO Plat
WEATHER Cold	FILE DIAMOND SHAMROCK

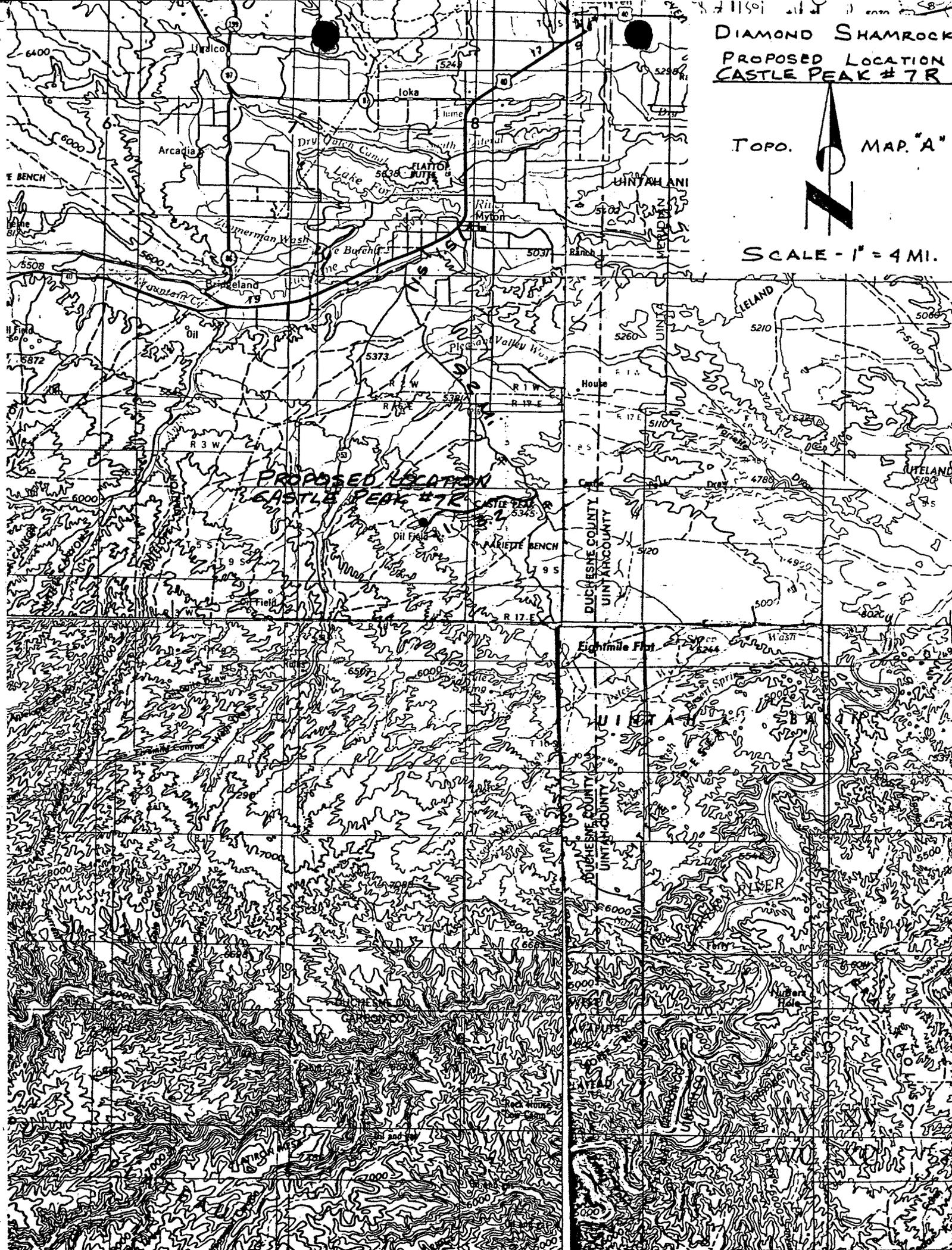
X = Section Corners Located

DIAMOND SHAMROCK  
PROPOSED LOCATION  
CASTLE PEAK # 7R

TOPO. MAP "A"



SCALE - 1" = 4 MI.



## CASTLE PEAK #7R

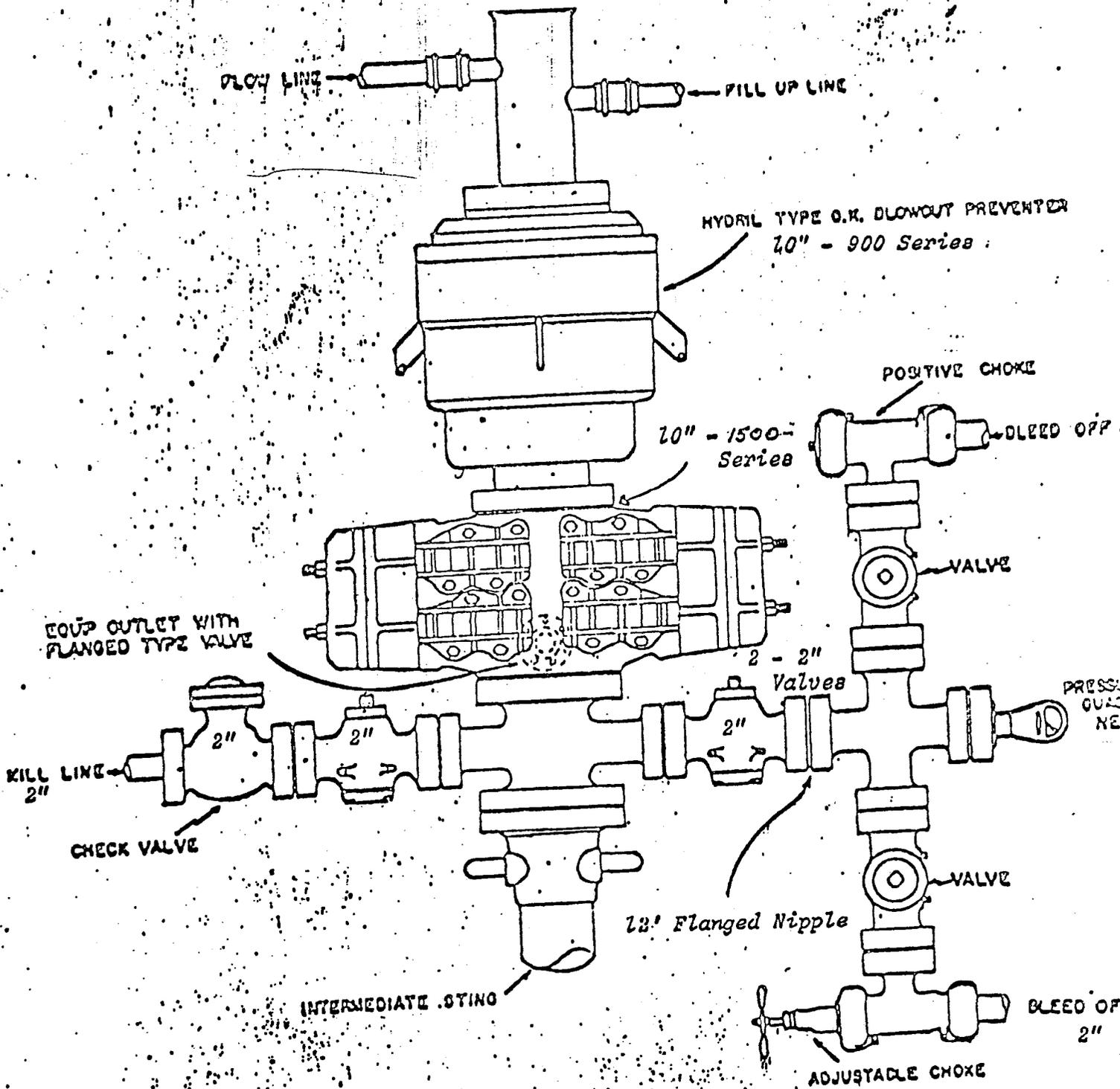
1. Geological Name of Surface Formation
  - (A) Uinta Formation of Eocene Age
2. Tops of Important Geological Markers
  - (A) Green River Formation 1145 Ft.
  - (B) Horse Bench Formation 2170 Ft.
3. Estimated Depths of Anticipated Water, Oil or Gas
  - (A) Gas anticipated at 2600 Ft. in Evacuation Creek Member (Water or Oil not anticipated)
  - (B) Oil & Gas anticipated in Basal Green River Formation (Douglas Creek) at 3100'
4. Proposed Casing Program
  - (A) 250' Ft. of 8-5/8" surface casing 32 lbs. per ft.  
3100 Ft. of 5½ " 15.5 lbs. per ft. (K55)  
All pipe to be purchased as new.
5. Specifications for pressure control equipment
  - (A) 12 inch 3000 # Double Hydraulic B.O.P. with Pipe rams and Blind Rams and Spherical BOP
  - (B) B.O.P. to be pressure tested before spudding and daily testing of closing units and rams while drilling.
6. Proposed Circulating Medium
  - (A) Brine water is proposed to be used unless additional weight is needed to control pressures or heaving shale. In this event a chemical-gel fresh water mud will be used and Barite as needed to control pressure.
7. Auxiliary Equipment to be Used
  - (A) Upper Kelly Cock
  - (B) Float at Bit
  - (C) Floor T.I.W. Valve (stabbing valve) for drilling pipe
  - (D) Gas Detector Logging Unit
8. Testing, Logging and Coring Program
  - (A) Drill Stem Test of Evacuation Creek and Douglas Creek
  - (B) Will run dual lateralog, BHC, and CNL-FDC.

9. Anticipated Abnormal Pressures, Temperatures or Hazards

- (A) No abnormal pressures expected
- (B) Will run dual lateral log, BHC, and CNL-FDC.

10. Starting Date and Duration of Operations

- (A) Anticipated starting date as soon as rig becomes available  
Castle Peak #1
- (B) This well is anticipated to be drilled in approximately 30 days.



NOTE: BLOWOUT PREVENTER HAS DOUBLE RAMS;  
 ONE BLIND AND ONE PIPE RAM.

Diag. A

DIAMOND SHAMROCK

13 Point Surface Use Plan

for

Well Location

Castle Peak #7R

Located In

Section 10, T9S, R16E, S.L.B. & M.

Duchesne County, Utah

DIAMOND SHAMROCK  
Castle Peak #7R  
Section 10, T9S, R16E, S.L.B. & M.

1. EXISTING ROADS

To reach DIAMOND SHAMROCK well location, Castle Peak #7R located in the SE $\frac{1}{4}$  NE $\frac{1}{4}$  Section 10, T9S, R16E, S.L.B. & M., Duchesne County, Utah:

Proceed Southwesterly out of Myton, Utah along U.S. Highway 40 - 1.5 miles to the junction of this Highway and Utah State Highway 53 to the South; proceed Southerly along this Highway - 1.5 miles more or less to the intersection of Utah State Highway 53 and Utah State Highway 216; proceed Southeasterly along Utah State Highway 216 - 9.2 miles to the junction of this road and an existing road to the Southwest; proceed Southwesterly along this service road - 3.2 miles to its junction with a road to the Southwest; proceed Southwesterly along this road 1 mile to the point where an existing road exits to the Northwest. This road needs extensive upgrading and will be considered as a proposed road.

The Highways mentioned in the foregoing paragraph are bituminous surfaced roads up to the intersection of Utah State Highway 53 and 216, at which point Utah State Highway 216 is constructed out of existing native materials that are prevalent to the existing areas it is located in and ranges from clay to sandy-clay shale materials, as are the aforementioned dirt oil field service roads and other roads in the vicinity.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase of the well. These roads will be maintained at the standards required by the B.L.M. or other controlling agencies.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The proposed access road leaves the existing service road in the NW $\frac{1}{4}$  SW $\frac{1}{4}$  Section 11, T9S, R16E, S.L.B. & M., and proceeds in a Northwesterly direction for a distance of 1600' more or less to the proposed location site.

In order to facilitate the anticipated traffic flow necessary to drill and produce this well, the following standards will be met:

This proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut area of the road will be 1 $\frac{1}{2}$  to 1 slopes and terraced.

The road will be centerline flagged prior to the commencement of construction.

DIAMOND SHAMROCK  
Castle Peak #7R  
Section 10, T9S, R16E, S.L.B. & M.

2. PLANNED ACCESS ROAD - cont...

The grade of this road will vary from flat to 8%, but will not exceed this amount. This road will be constructed from native borrow accumulated during construction.

There will be no culverts required along this access road.

If deemed necessary by the local governmental agencies or their representatives turnouts will be installed for safety purposes every 0.25 miles or on the top of ridges or at intervals and locations that will provide the greatest sight distance. These turnouts will be 200' in length and 10' in width and will be tapered from the shoulder of the road for a distance of 50' in length at both the access and outlet ends.

Since there are no fences along this road, there will be no cattleguards required.

The vegetation along this route consists of sparse amounts of sagebrush, rabbitbrush, some grasses and cacti with large areas that are devoid of vegetation.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

There are no known temporarily abandoned wells, water wells, disposal wells, drilling wells, shut in wells, injection wells, monitoring or observation wells, for other resources within a one-mile radius of this location site.

There are two abandoned wells within a one-mile radius of this location site. They are located in the SE $\frac{1}{4}$  & NE $\frac{1}{4}$  Section 10, T9S, R16E, S.L.B. & M.

There is also a well applied for in the NE $\frac{1}{4}$  NE $\frac{1}{4}$  of Section 10, T9S, R16E, S.L.B. & M.

There is one producing well in the NW $\frac{1}{4}$  SE $\frac{1}{4}$  Section 11, T9S, R16E, S.L.B. & M.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no DIAMOND SHAMROCK tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one-mile radius of this location site.

In the event that production is established, plans for a flowline from this location to existing lines in the area will be submitted to the proper authorities and the existing area of the location will be utilized for the establishment of the necessary production facilities.

DIAMOND SHAMROCK  
Castle Peak #7R  
Section 10, T9S, R16E, S.L.B. & M.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES - cont...

The total area that is needed for the production of this well will be fenced and cattleguards will be utilized for access to these facilities.

The area will be built if possible, with native materials and if these materials are not available, then the necessary arrangements will be made to get them from private sources.

These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water to be used for the drilling and production of this well will be hauled by truck from the Duchesne River, at a point where Highway 40 crosses it North of Myton, Utah, approximately 17 miles to the Northeast of the proposed location site.

In the event that the above source is not used, other arrangements will be made with the proper authorities for an alternate source.

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

There will be no water well drilled at this location site.

6. SOURCES OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow materials accumulated during the construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

The native materials that will be used in the construction of this location site and access road will consist of a sandy-clay soil and sandstone and shale material gathered in actual construction of the road and location.

DIAMOND SHAMROCK  
Castle Peak #7R  
Section 10, T9S, R16E, S.L.B. & M.

7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve pit shall be constructed and at least half of the depth of the reserve pit shall be below the existing ground surface. Non-flammable materials such as cuttings, salts, chemicals, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the reserve pit will be fenced on three sides. Upon completion of drilling, the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted. A portable toilet will be supplied for human waste.

A trash basket will be provided for flammable materials. Waste will be hauled by truck to the nearest sanitary landfill.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #6, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet and Item #9). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash basket will be hauled to the nearest sanitary landfill. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

DIAMOND SHAMROCK  
Castle Peak #7R  
Section 10, T9S, R16E, S.L.B. & M.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A"):

The area is a basin that lies between the Book Cliff Mountains to the South and the Uinta Mountains to the North. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

The majority of the washes and streams in the area are non-perennial streams and flow to the Southeast and are tributaries to the Green River.

The soils of the semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial, Sandstone, Mudstone) from the Eocene and Quaternary Epoch (gravel surfaces) and the visible geologic structures consist of light brownish clay (OL) to sandy soils (SM-ML) with poorly graded gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates, and shales).

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid regions we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, and cacti, and large areas of bare soils devoid of any growth. In the areas that are formed along the edges of perennial streams cottonwoods, willows, tamarack, sagebrush, rabbitbrush, grasses and cacti can be found.

The fauna of the area is sparse and consists predominantly of the mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to the area.

The birds of the area are raptors, finches, ground sparrows, magpies, crows and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area (See Topographic Map "B").

Castle Peak #7R location site sits on a sloping hillside above a small non-perennial drainage, which drains to the Northeast into Castle Peak Draw which drains into the Green River which is located approximately 14 miles to the East of the location.

The geologic structure of the location is of the Uinta Formation and consists of light brownish-gray sandy clay (SP-CL) with some sandstone outcrops.

The ground slopes from the West through the location to the East at approximately a 4% grade.

DIAMOND SHAMROCK  
Castle Peak #7R  
Section 10, TOS, R16E, S.L.B.& M.

11. OTHER INFORMATION - cont...

The location is covered with some sagebrush and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location stie. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Bill Elliott  
DIAMOND SHAMROCK  
Drawer E  
Vernal, UT 84078

Tele: 1-801-789-5270

13. CERTIFICATION

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

Dec 1, 1980  
DATE

Bill Elliott  
Bill Elliott  
District Supervisor

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

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

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-017985OPERATOR: Diamond ShamrockWELL NO. 7RLOCATION: C SE 1/2 NE 1/2 sec. 10, T. 9 S., R. 16 E., SLMDuchesne County, Utah

1. Stratigraphy: Operator tops seem reasonable

Uintah	surface
Green River	1145'
Horsebench	2170'
<u>TD</u>	<u>3100'</u>

2. Fresh Water:

Fresh water is probable throughout the Uintah.  
Useable water may be found in Green River sandstones to TD.

3. Leasable Minerals:

Oil shale in the Green River. The Mahogany zone should occur at ~ 2750'

Saline minerals may occur in a 1000' to 1500' rock interval immediately above the Mahogany.

4. Additional Logs Needed: Adequate5. Potential Geologic Hazards: None expected

6. References and Remarks:

M. W. Wood

Date: 10/27/80

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

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Diamond Shamrock  
 Project Type Oil Well Drilling  
 Project Location 700' FEL 2050' FNL Section 10, T. 9S, R. 16E  
 Well No. 7R Lease No. U-017985  
 Date Project Submitted December 2, 1980

FIELD INSPECTION Date December 31, 1980

Field Inspection  
 Participants

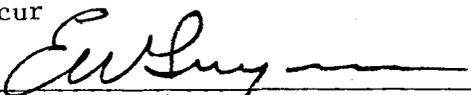
<u>Greg Darlington</u>	<u>USGS, Vernal</u>
<u>Gary Slagel</u>	<u>BLM, Vernal</u>
<u>Gene Stewart</u>	<u>Uintah Engineering</u>
<u>Bill Elliot</u>	<u>Diamond Shamrock</u>
<u>Floyd Murray</u>	<u>D. E. Casada</u>

Related Environmental Documents: Unit Resource Analysis, Duchesne Planning  
Unit, BLM, Vernal

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

January 2, 1981  
 Date Prepared

Gregory Darlington  
 Environmental Scientist

I concur  
  
 Date

1/6/81  
 District Supervisor

PROPOSED ACTION:

Diamond Shamrock proposes to drill the #7R well, a 3100 foot oil test of the Basal Green River Formation with some gas anticipated in the Evacuation Creek Member at about 2600 feet. A previous well drilled in 1964 and plugged and abandoned in 1969 is located about 20 feet east and 100 feet north of the wellsite near the northeast corner of the proposed reserve pit and close enough to cause some minor concern at the onsite. About half of the new pad will be built on the old pad of this abandoned well and about 1600 feet of old road to this location will be extensively upgraded and restored for use as an access road. A pad 135 feet by 300 feet and reserve pits 75 feet by 150 feet are planned for this location.

RECOMMENDED APPROVAL CONDITIONS:

Drilling should be allowed provided the operator agrees to incorporate the following additional measures into the APD and operating plans and adhere to them:

1. Lease Stipulations
2. BLM Stipulations
3. Furnish adequate logs of drilling operations as requested in the Mineral Evaluation and Mining Reports.

11:00 AM

FIELD NOTES SHEET

Date of Field Inspection: December 31, 1980

Well No.: 7R

Lease No.: U-017985

Approve Location:

Approve Access Road:

Modify Location or Access Road: The road has eroded considerably in some places and will need to be reworked and upgraded. Rig available ~~before~~ before January 30.

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

Comments and special conditions of approval discussed at onsite: (include local topography)

Reentry. USGS made recommendation that pit be kept a minimum of 25 feet from the existing Dry hole marker. The Marker was about 20 feet West and 20-30 feet North of where the IWR would indicate it should have been.

Good location

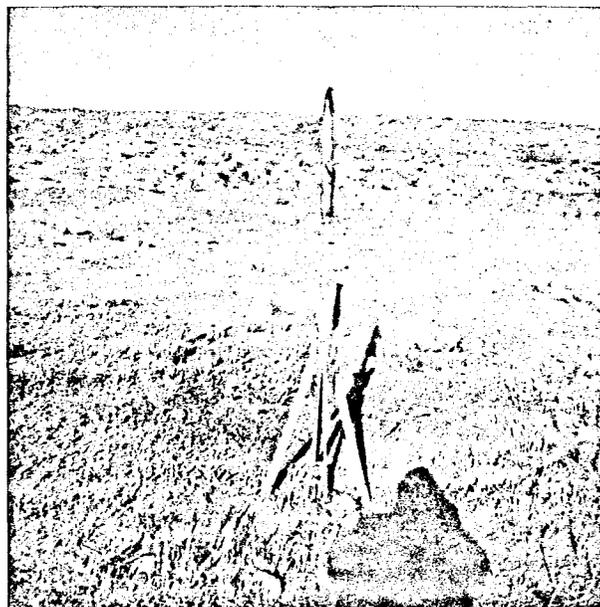
IWR indicates original well had depth 5305. plugged back to 3010 at the time of completion December 1964. Plugged + abandoned July 1969.

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Corre- spondence (date)	Phone check (date)	Meeting (date)						
1. Public health and safety							1, 2, 3, 6	12-31-80	
2. Unique charac- teristics							1, 2, 3, 6	12-31	
3. Environmentally controversial							1, 2, 3, 6	12-31	
4. Uncertain and unknown risks							1, 2, 3, 6	12-31	
5. Establishes precedents							1, 2, 3, 6	12-31	
6. Cumulatively significant							1, 2, 3, 6	12-31	
7. National Register historic places							1, 6	12-31	
8. Endangered/ threatened species							1, 6	12-31	
9. Violate Federal, State, local, tribal law							1, 2, 3, 6	12-31	

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey  
(Conservation Division, Geological Division, Water Resource Division,  
Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. *USGS conditions of approval.*



*Diamond Shamrock 7R  
~~View~~ View 12/31  
West*

\*\* FILE NOTATIONS \*\*

DATE: 12-3-80  
OPERATOR: Diamond Shamrock  
WELL NO: #7R  
Location: Sec. 10 T. 9S R. 16E County: DeWitt

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

API Number 43-013-30554

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Director: OK under rule C-3  
\_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. \_\_\_\_\_ O.K. Rule C-3

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

Lease Designation  Plotted on Map

Approval Letter Written

Hot Line  P.I.

December 8, 1980

Diamond Shamrock  
Drawer E  
Vernal, Utah 84078

Re: Well No. Castle Peak #7R  
Sec. 10, T. 9S, R. 16E  
Duchesne County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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

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

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

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

The API number assigned to this well is 43-013-30554.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

*Cleen B. Feight /ka*  
Cleen B. Feight  
Director

/ka  
cc: USGS





# United States Department of the Interior

IN REPLY REFER TO

T & R  
(U-801)

BUREAU OF LAND MANAGEMENT  
VERNAL DISTRICT OFFICE  
170 South 500 East  
Vernal, Utah 84078

December 31, 1980

Ed Guynn, District Engineer  
USGS, Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

RE: Joint On-Site Inspection  
Diamond Shamrock  
T9S, R16E, Section 10  
Castle Peak Federal #24-10  
Castle Peak Federal #7R

Dear Mr. Guynn:

On December 31, 1980, a joint onsite inspection was made of the above referenced well site locations and proposed access roads by people representing Diamond Shamrock, Casada Construction, USGS, and the BLM. We feel that the surface use and operating plans are adequate with the following stipulations:

1. Construction and maintenance of roads, rehabilitation of disturbed areas, and construction of pipeline routes shall be in accordance with surface use standards as set forth in the booklet, "Surface Operating Standards for Oil and Gas Exploration and Development."
2. The maximum width of access roads will be 30 feet total disturbed area. Turnouts will not be required and travelling off the right-of-way will not be allowed.
3. Topsoil will be stockpiled as addressed in the applicants 13 point plan. Our office recommends the top 6-10 inches of soil materials be stockpiled.
4. The BLM will be notified at least 24 hours prior to any construction.
5. The BLM will be notified at least 24 hours prior to any rehabilitation.
6. A burn pit will not be constructed. There will be no burying of garbage or trash at the location. All trash must be contained and



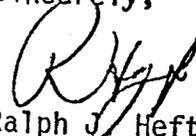
hauled to an approved disposal site.

7. All permanent (on site for six (6) months duration or longer) structures constructed or installed shall be painted a flat (non-reflective) earth tone color to match Olympic (Division of Comercio, Inc., Seattle, WA. 98107) overcoat "Clay". Facilities that are required to comply with O.S.H.A. (Occupational Safety and Health Act) standards are excluded.

An archaeological clearance has been conducted by Archaeological-Environmental Research Corporation of the proposed drill sites and access road. No cultural materials were located on the surface of the survey area.

The proposed activities do not jeopardize listed, threatened, or endangered flora/fauna and their habitats.

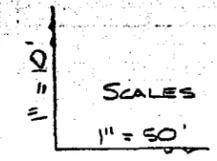
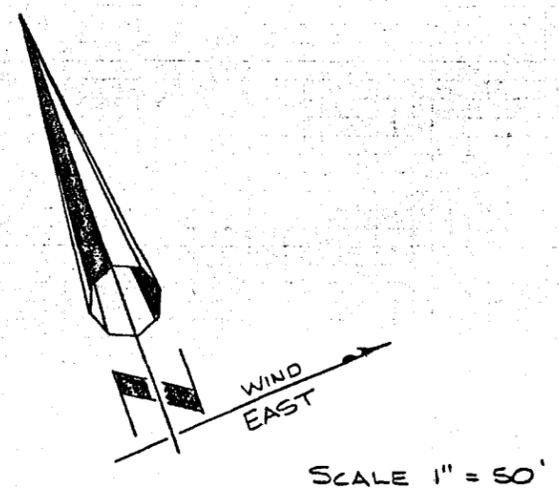
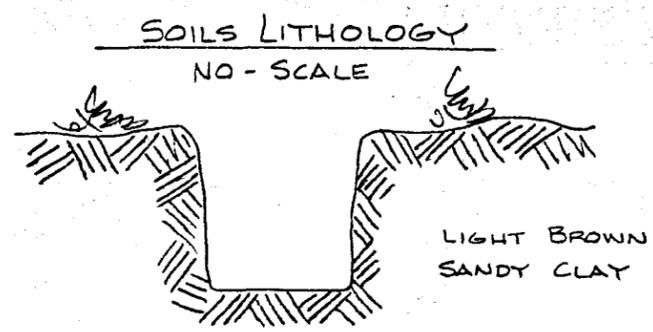
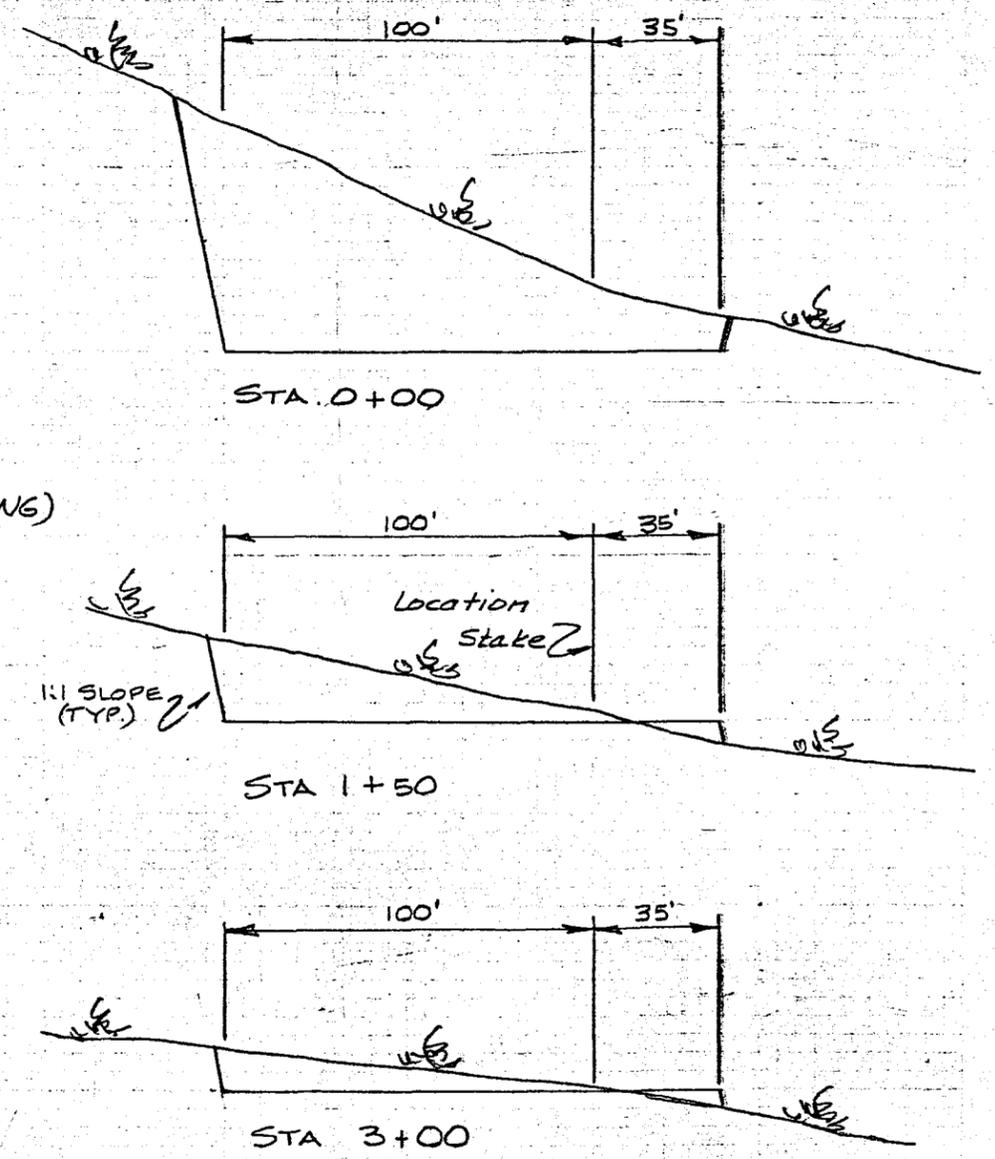
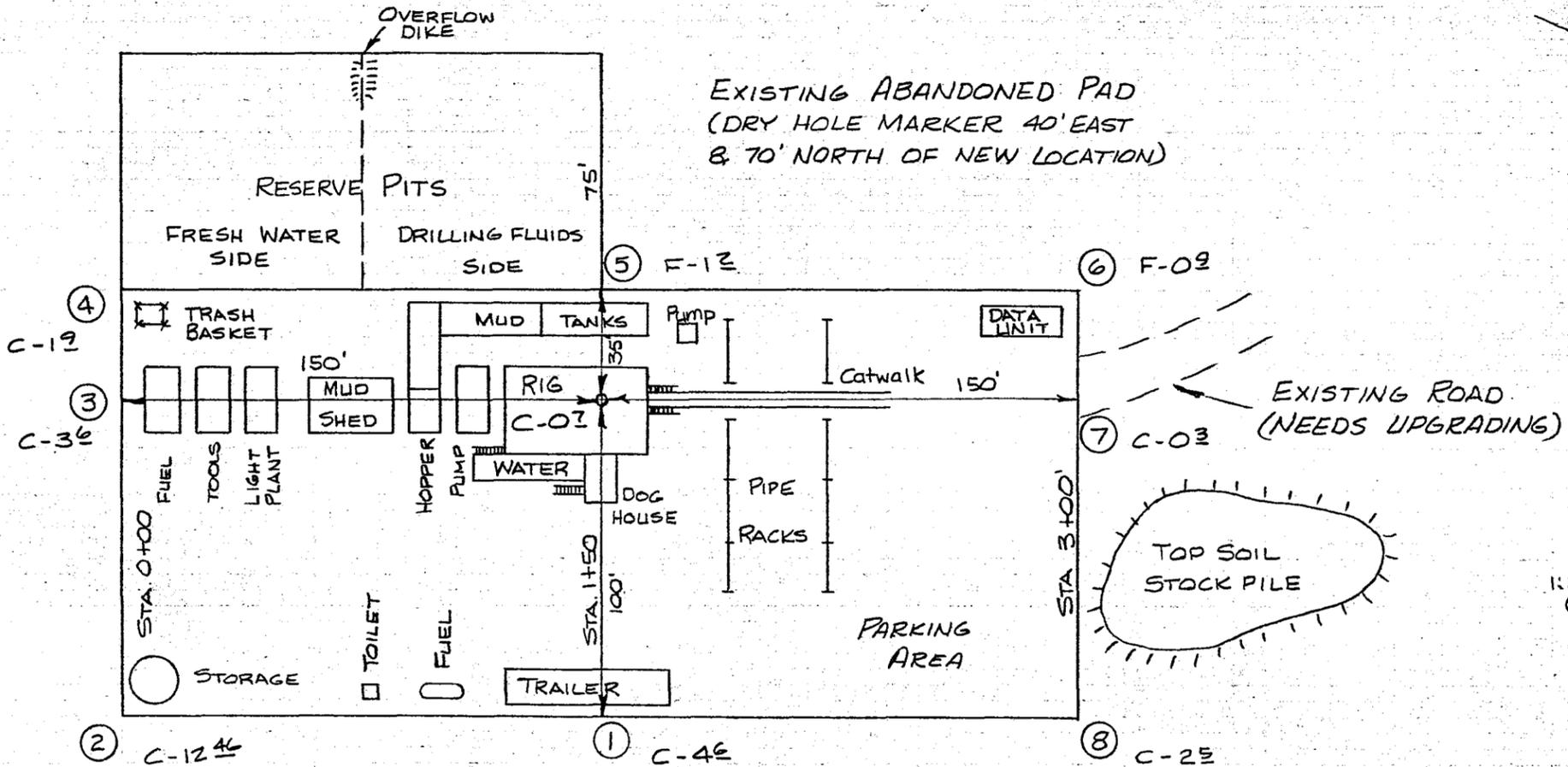
Sincerely,



Ralph J. Heft  
Area Manager  
Diamond Mountain Resource Area

cc: USGS, Vernal

DIAMOND SHAMROCK  
CASTLE PEAK # 7 R



APPROX. YARDAGES

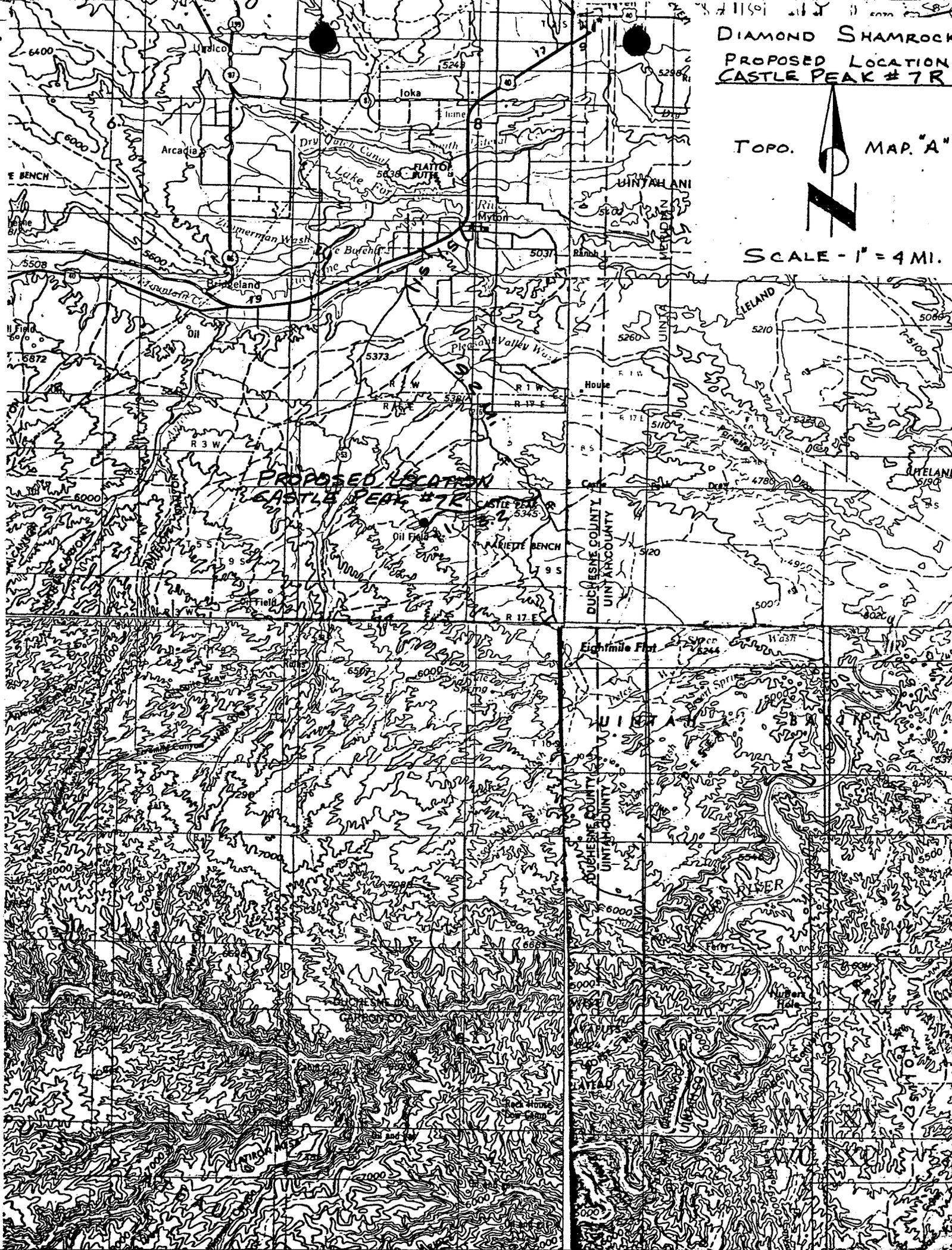
CUT	4,670	CU. YDS.
FILL	118	CU. YDS.

DIAMOND SHAMROCK  
PROPOSED LOCATION  
CASTLE PEAK # 7R

TOPO. MAP "A"



SCALE - 1" = 4 MI.



DIAMOND SHAMROCK  
PROPOSED LOCATION  
CASTLE PEAK # 7R

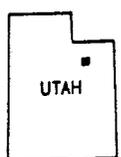
TOPO. MAP "B"



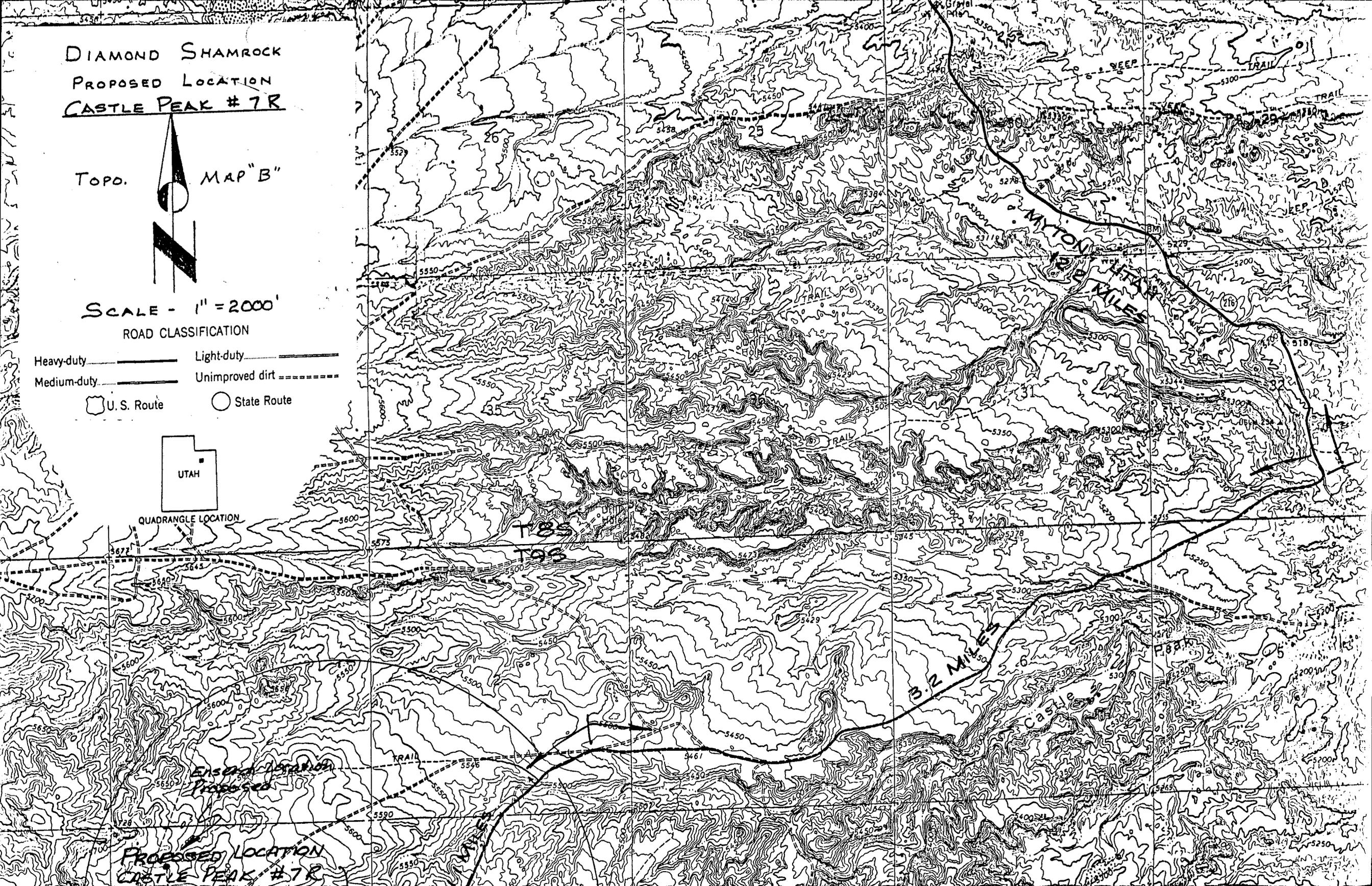
SCALE - 1" = 2000'

ROAD CLASSIFICATION

- Heavy-duty  Light-duty 
- Medium-duty  Unimproved dirt 
-  U. S. Route  State Route



QUADRANGLE LOCATION



*PROPOSED LOCATION  
CASTLE PEAK # 7R*

*PROPOSED LOCATION  
CASTLE PEAK # 7R*

*3.2 Miles*



EXISTING ROAD  
TO BE REBUILT

WALL

PARADE

PARADE

BM

8

18

24

25

BM

BM

NOTICE OF SPUD

Caller: Jim Paclulski Leonard Skamark 1981  
Phone: # 307-266-1882

DIVISION OF  
OIL, GAS & MINING

Well Number: # 7R

Location: SE 1/4 NE 1/4 S10 T. 9S R. 16E

County: DeWitt State: UT

Lease Number: U-017985

Lease Expiration Date: \_\_\_\_\_

Unit Name (If Applicable): \_\_\_\_\_

Date & Time Spudded: 9/18/81 8:00 PM

Dry Hole Spudded Rotary: \_\_\_\_\_

Details of Spud (Hole, Casing, Cement, etc.) 293' 8 5/8" ce  
193 SC

Rotary Rig Name & Number: Layton Expl #1

Approximate Date Rotary Moves In: 9/15/81

FOLLOW WITH SUNDRY NOTICE

Call Received By: Cindy

Date: 9-21-81 10:30 AM

**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.

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

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

2. NAME OF OPERATOR  
Diamond Shamrock Corporation

3. ADDRESS OF OPERATOR  
5730 W. Yellowstone Hwy., Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 700' FEL, 2050' FNL, SE/NE

At top prod. interval reported below

At total depth

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

5. LEASE DESIGNATION AND SERIAL NO.

U-017985

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Castle Peak Federal

9. WELL NO.

7R

10. FIELD AND POOL, OR WILDCAT

Castle Peak

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

Sec. 10, T9S, R16E S.L.B.&M.

12. COUNTY OR PARISH Duchesne 18. STATE Utah

15. DATE SPUNDED 9-18-81 16. DATE T.D. REACHED 9-26-81 17. DATE COMPL. (Ready to prod.) N/A 18. ELEVATIONS (DF, RBB, BT, GR, ETC.)\* 5594' GR 19. ELEV. CASINGHEAD 5594'

20. TOTAL DEPTH, MD & TVD 3106' MD 21. PLUG, BACK T.D., MD & TVD -0- 22. IF MULTIPLE COMPL., HOW MANY\* N/A 23. INTERVALS DRILLED BY 10 - 3106' ROTARY TOOLS N/A CABLE TOOLS N/A

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

26. TYPE ELECTRIC AND OTHER LOGS RUN Density, Dual Induction 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
8 5/8"	24#	260' MD	12 1/4"	190 sxs.	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

31. PERFORATION RECORD (Interval, size and number)

N/A
-----

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	N/A

33.\* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
N/A	N/A	N/A	→	N/A	N/A	N/A	N/A

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
N/A	N/A	→	N/A	N/A	N/A	N/A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) N/A TEST WITNESSED BY N/A

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 [Signature] TITLE Dist. Drlg. Supt. DATE 10-1-81

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 38, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

**37. SUMMARY OF POROUS ZONES:**  
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Green River	2586'	2625'	9-23-81: Opened @10:45 A.M. No cushion I.H. 1104.1 I.H. 1132.9 I.F. 134.5 I.F. 136.7 I.SI 1090.5 I.SI 1105.5 F.F. 161.3 F.F. 177.6 F.SI 1104.1 F.SI 1119.2 F.H. 1104.1 F.H. 1132.9 Recovered 513' salt water highly gas cut Sampler: 1400 cc water .93 cc gas

**38. GEOLOGIC MARKERS**

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River	1044'	
Horse Bench	2163'	
Top 1st Gas Sand	2590'	
T.D.	3130'	

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  
Diamond Shamrock Corporation

3. ADDRESS OF OPERATOR  
5730 W. Yellowstone Casper, Wy. 82601

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 700' FEL, 2050' FNL, SE/NE  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

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 checked="" type="checkbox"/>	<input type="checkbox"/>
(other)		

5. LEASE  
U-017985

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Castle Peak Federal

9. WELL NO.  
7R

10. FIELD OR WILDCAT NAME  
Castle Peak

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 10, T9S, R16E, S.L.B. & M.

12. COUNTY OR PARISH  
Duchesne

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5594' 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.)\*

Plan to Plug & Abandon well as follows:

2669' - 2469': 75 sxs.  
 1652' - 1452': 75 sxs.  
 367' - 217': 60 sxs.  
 Surface w/ marker: 10 sxs.

Formation Tops:

Green River 1044'  
 Horse Bench 2163'  
 Top 1st Gas Sand 2590'

**APPROVED BY THE DIVISION OF OIL, GAS, AND MINING**

**DATE:** 12-3-81  
**BY:** M.S. Menden

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Mes Ch. Idess TITLE Dist. Drlg. Supt. DATE 10-2-81

(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

**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  
Diamond Shamrock Corporation

3. ADDRESS OF OPERATOR  
5730 W. Yellowstone Casper, Wy. 82601

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 700' FEL, 2050' FNL, SE/NE  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U-017985

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Castle Peak Federal

9. WELL NO.  
7R

10. FIELD OR WILDCAT NAME  
Castle Peak

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 10, T9S. R16E, S.L.B. & M.

12. COUNTY OR PARISH | 13. STATE  
Duchesne | Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND-WD)  
5594' GR

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)	

(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.)\*

Well was Plugged & Abandoned as follows:

2669' - 2469': 75 sxs.  
 1652' - 1452': 75 sxs.  
 367' - 217': 60 sxs.  
 Surface w/ marker: 10 sxs.

**APPROVED BY THE DIVISION OF OIL, GAS, AND MINING**  
All plugs were displaced with heavy drilling mud.

DATE: 12-3-81  
BY: [Signature]

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED [Signature] TITLE Dist. Drlg. Supt. DATE 10-2-81

(This space for Federal or State office use)

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

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

8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

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

2. NAME OF OPERATOR  
Diamond Shamrock Corporation

3. ADDRESS OF OPERATOR  
5730 W. Yellowstone Hwy. Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 700' FEL, 2050' FNL, SE/NE  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-013-30554 | DATE ISSUED 12-3-80

15. DATE SPUDDED 9-18-81 | 16. DATE T.D. REACHED 9-26-81 | 17. DATE COMPL. (Ready to prod.) N/A | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5594' GR | 19. ELEV. CASINGHEAD 5594'

20. TOTAL DEPTH, MD & TVD 3106' MD | 21. PLUG, BACK T.D., MD & TVD -0- | 22. IF MULTIPLE COMPL., HOW MANY\* N/A | 23. INTERVALS DRILLED BY → 0' - 3106' | ROTARY TOOLS | CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* N/A | 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Density, Dual Induction | 27. WAS WELL CORED No

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24#	260' MD	12 1/4"	190 sxs.	None

29. LINER RECORD | 30. TUBING RECORD

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

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
N/A	

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
N/A	N/A	N/A					
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
N/A	N/A	N/A	→	N/A	N/A	N/A	N/A
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
N/A	N/A	→	N/A	N/A	N/A	N/A	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) N/A | TEST WITNESSED BY N/A

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 Wes C. Adams TITLE Dist. Drlg. Supt. DATE 10-2-81

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 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.																								
Green River	2586'	2625'	<p>9-23-81: Opened @10:45 A.M. No cushion</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">I.H.</td> <td style="width: 15%;">1104.1</td> <td style="width: 15%;">I.H.</td> <td style="width: 15%;">1132.9</td> </tr> <tr> <td>I.F.</td> <td>134.5</td> <td>I.F.</td> <td>136.7</td> </tr> <tr> <td>I.SI</td> <td>1090.5</td> <td>I.SI</td> <td>1105.5</td> </tr> <tr> <td>F.F.</td> <td>161.3</td> <td>F.F.</td> <td>177.6</td> </tr> <tr> <td>F.SI</td> <td>1104.1</td> <td>F.SI</td> <td>1119.2</td> </tr> <tr> <td>F.H.</td> <td>1104.1</td> <td>F.H.</td> <td>1132.9</td> </tr> </table> <p>Recovered 513' salt water highly gas cut Sampler: 1400 cc water .93 cc gas</p>	I.H.	1104.1	I.H.	1132.9	I.F.	134.5	I.F.	136.7	I.SI	1090.5	I.SI	1105.5	F.F.	161.3	F.F.	177.6	F.SI	1104.1	F.SI	1119.2	F.H.	1104.1	F.H.	1132.9
I.H.	1104.1	I.H.	1132.9																								
I.F.	134.5	I.F.	136.7																								
I.SI	1090.5	I.SI	1105.5																								
F.F.	161.3	F.F.	177.6																								
F.SI	1104.1	F.SI	1119.2																								
F.H.	1104.1	F.H.	1132.9																								

**38.**

**GEOLOGIC MARKERS**

NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River	1044'	
Horse Bench	2163'	
Top 1st Gas Sand	2590'	
T.D.	3130'	

CASTLE PEAK  
Lease Name

7-R  
Well No.

1  
Test No.

2586'-2625'  
Tested Interval

DIAMOND SHAMROCK CORPORATION  
Lease Owner/Company Name

603681  
Ticket Number

VERNAL  
Camp

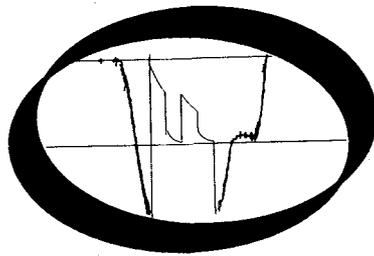
9-24-81  
Date

192  
Gauge Number(s)

205  
Gauge Number(s)

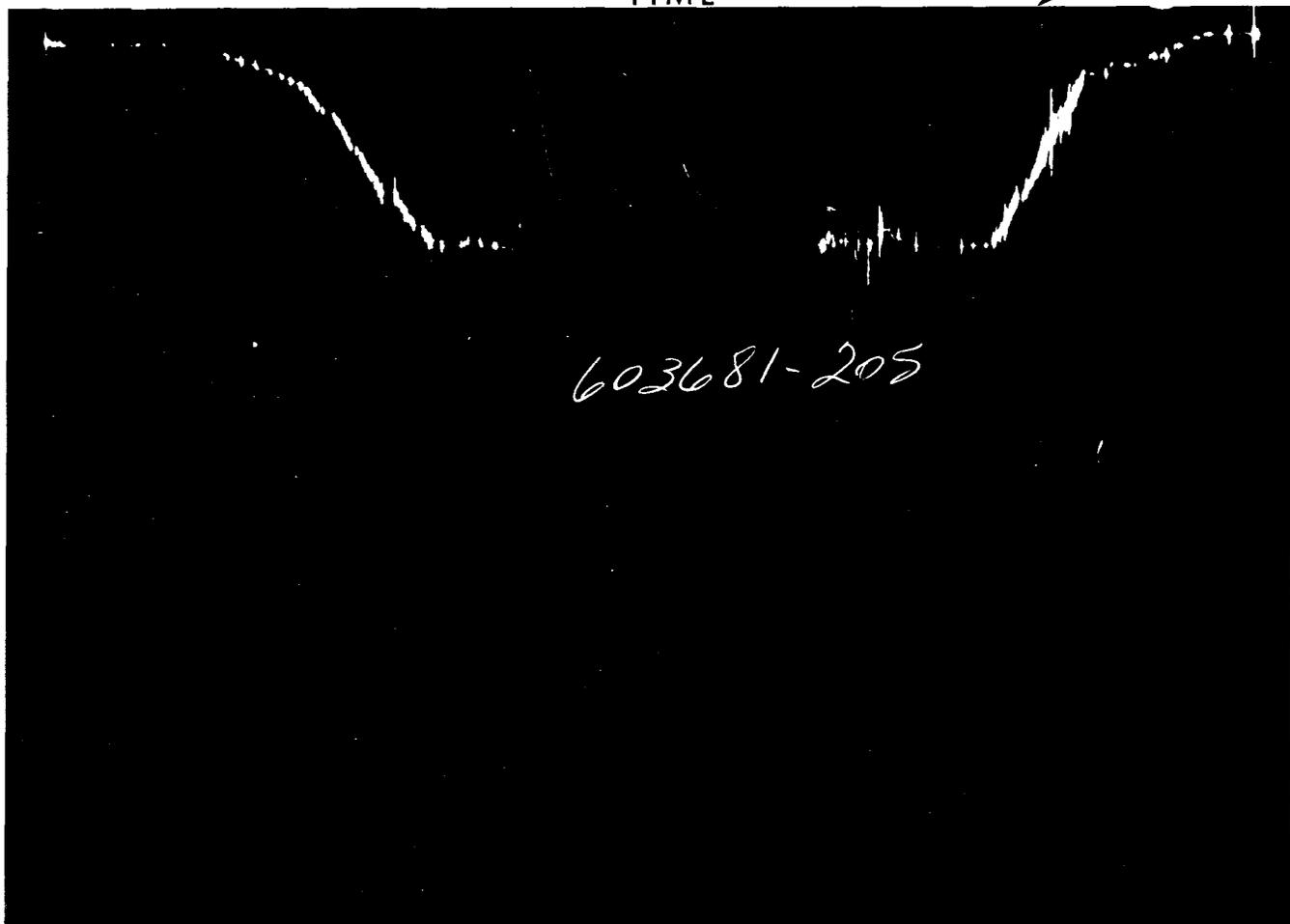
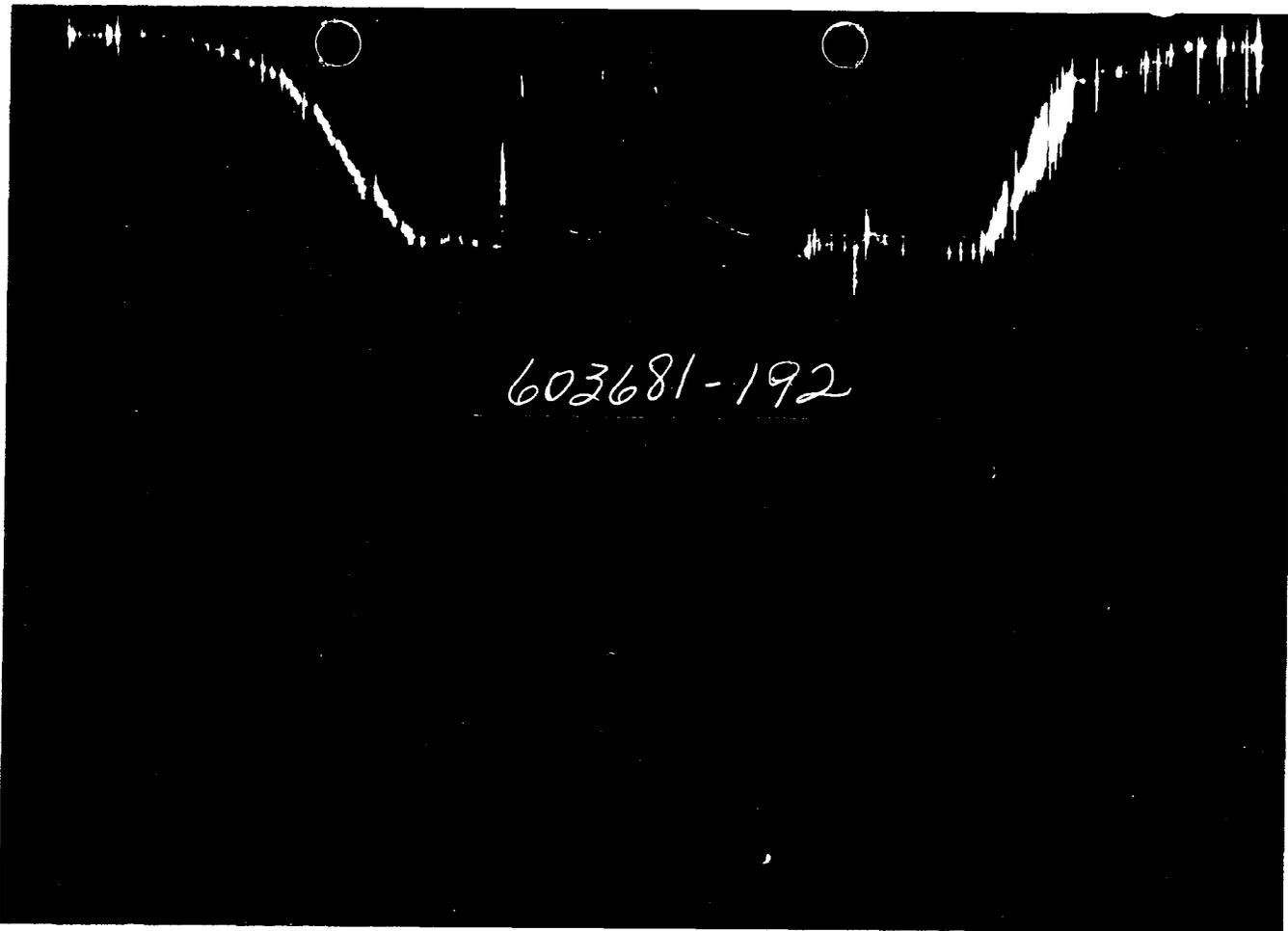


# Formation Testing Service Report



**HALLIBURTON SERVICES**

DUNCAN, OKLAHOMA



Each Horizontal Line Equal to 1000 p.s.i.

TICKET NO. 603681 DATE 9-24-81 HALLIBURTON CAMP VERNAL

LEASE OWNER DIAMOND SHAMROCK CORPORATION ic-vt

LEASE NAME CASTLE PEAK WELL NO. 7-R TEST NO. 1

LEGAL LOCATION 10-9S-16E FORMATION TESTED

FIELD AREA S. MYTON COUNTY DUSHESNE STATE UTAH

TYPE OF D.S.T. OPEN HOLE

TESTER(S) R. RIPPLE

WITNESS RUSS IVIE DRILLING CONTRACTOR LAYTON EXPLORATION #2

DEPTHS MEASURED FROM KELLY BUSHING CASING PERFS (FT.)

TYPE AND SIZE OF GAS MEASURING DEVICE LT-20 CHOKE MANIFOLD-6" CHOKE

### CUSHION DATA

TYPE AMOUNT WEIGHT (lb./gal.)

TYPE AMOUNT WEIGHT (lb./gal.)

RECOVERY (ft. or bbl.): 513'-Salt water-highly gas cut

### FLUID PROPERTIES

SOURCE	RESISTIVITY	CHLORIDES (PPM)	SOURCE	RESISTIVITY	CHLORIDES (PPM)
Mud Pit	1.5 @ 54 °F	2970		@ °F	
Sampler	.34 @ 51 °F	16363		@ °F	
	@ °F			@ °F	

REMARKS: NOTE: No calculations performed - insufficient gas production upon which to base calculations and marginal development of closed in pressure buildup curves for an extrapolation.

-SEE PRODUCTION TEST DATA SHEET-

TICKET NO. 603681 DATE 9-24-81 ELEVATION (FT.) 5594  
 TOP OF TESTED INTERVAL (ft.) 2586 BOTTOM OF TESTED INTERVAL (ft.) 2625  
 NET PAY (ft.) 15 TOTAL DEPTH (ft.) 2625  
 HOLE OR CASING SIZE (in.) 7.875 MUD WEIGHT (lb./gal.) 8.3 VISCOSITY (sec.) 27  
 SURFACE CHOKE (in.) .125 BOTTOM CHOKE (in.) \_\_\_\_\_  
 OIL GRAVITY \_\_\_\_\_ @ \_\_\_\_\_ °F GAS GRAVITY—ESTIMATED \_\_\_\_\_ ACTUAL \_\_\_\_\_

**SAMPLER DATA**

**TEMPERATURE (°F)**

PRESSURE (P.S.I.) 220 CUBIC FT. OF GAS .93  
 C.C.'s OF OIL - C.C.'s OF WATER 1400  
 C.C.'s OF MUD - TOTAL LIQUID C.C.'s 1400

ESTIMATE \_\_\_\_\_  
 ACTUAL 110  
 DEPTH (ft.) 2621  
 H.T.-500 ; THERMOMETER ;  
 T.E. OR R.T.-7 ; OTHER   
 SERIAL NO. \_\_\_\_\_

**GAS/OIL RATIO (cu. ft. per bbl.)**

FROM SAMPLER \_\_\_\_\_ OTHER \_\_\_\_\_

**RECORDER AND PRESSURE DATA**

CHARTS READ BY R. RIPPLE DATA APPROVED BY \_\_\_\_\_

RECORDERS	GAUGE NUMBER	192	205			TIMES (00:00-24:00 HRS.)	
	GAUGE TYPE	1	2			TOOL OPENED	1045
	GAUGE DEPTH (ft.)	2565	2622			DATE	9-24-81
	CLOCK NUMBER	2797	2418			BYPASS OPENED	1342
	CLOCK RANGE (HR.)	12	12			DATE	9-24-81
	INITIAL HYDROSTATIC	1085.7	1100.4			PERIOD	MINUTES
	INITIAL FLOW	135.3	132.2			XXX	XXX
P	1st. FINAL FLOW	183.6	182.1			1st. FLOW	10*
	CLOSED-IN	1079.9	1081.0			1st. C.I.P.	47*
R	INITIAL FLOW	160.9	173.4			XXX	XXX
	2nd. FINAL FLOW	242.3	242.2			2nd. FLOW	30*
S	CLOSED-IN	1102.3	1100.1			2nd. C.I.P.	90*
	INITIAL FLOW					XXX	XXX
U	3rd. FINAL FLOW	*See incremental pressure reading sheet				3rd. FLOW	
	CLOSED-IN					3rd. C.I.P.	
E	INITIAL FLOW					XXX	XXX
	3rd. FINAL FLOW	*See incremental pressure reading sheet				3rd. FLOW	
S	CLOSED-IN					3rd. C.I.P.	
	FINAL HYDROSTATIC	1094.5	1105.6			XXX	XXX

Casing perms. \_\_\_\_\_ Bottom choke \_\_\_\_\_ Surf. temp \_\_\_\_\_ °F Ticket No. 603681  
 Gas gravity \_\_\_\_\_ Oil gravity \_\_\_\_\_ GOR \_\_\_\_\_  
 Spec. gravity \_\_\_\_\_ Chlorides \_\_\_\_\_ ppm Res. \_\_\_\_\_ @ \_\_\_\_\_ °F

INDICATE TYPE AND SIZE OF GAS MEASURING DEVICE USED \_\_\_\_\_

Date Time	a.m. p.m.	Choke Size	Surface Pressure psi	Gas Rate MCF	Liquid Rate BPD	Remarks
0435						On location.
0520						Picked up tools.
0730						Went in hole with tools.
1045		.125				Tool opened.
1050		"	30			
1055		"	38			Closed tool.
1142		.1875				Opened tool.
1150		"				
1155		"	41	32.9		
1200		"	33	26.5		
1205		"	29	23.3		
1210		"	25	20		
1212						Closed tool.
1342						Opened by-pass-pulled 2 stands.
1357						Reversed out-bar did not break pin.
1408						Kelly up to pump out Disc. Circulated hole.
1800						Drained sampler.
1820						Broke down tools-loaded out.
2030						Read charts-through with job.

DIAMOND SHAMROCK CORPORATION  
Lease Owner/Company Name

603681  
Ticket Number

B.T. 192

B.T. 205

B.T. \_\_\_\_\_

Depth 2565'

Depth 2622'

Depth \_\_\_\_\_

Time (minutes)	Log $\frac{t + ()}{()}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t + ()}{()}$	PSIG Temp. Corr.	Time (minutes)	Log $\frac{t + ()}{()}$	PSIG Temp. Corr.
FIRST FLOW...			FIRST FLOW...					
0		135.3	0		132.2			
2		135.8	2		133.3			
4		140.6	4		136.9			
6		152.7	6		149.9			
8		170.7	8		168.7			
10		183.6	10		182.1			
FIRST CIP...			FIRST CIP...					
0		183.6	0		182.1			
3		461.7	3		441.0			
6		639.6	6		621.1			
9		757.1	9		743.2			
12		831.4	12		820.3			
15		882.9	15		875.5			
18		919.3	18		914.2			
21		948.9	21		945.9			
24		972.1	24		970.8			
27		991.4	27		991.3			
30		1008.8	30		1009.5			
33		1025.9	33		1026.6			
36		1039.1	36		1041.4			
49		1051.8	39		1053.7			
42		1063.6	42		1065.2			
45		1073.9	45		1075.5			
46.9		1079.9	46.8		1081.0			
FINAL FLOW...			FINAL FLOW...					
0		160.9	0		173.4			
2		156.3	2		161.3			
4		167.6	4		168.3			
6		184.3	6		185.9			
8		198.4	8		199.7			
10		207.4	10		209.2			
12		210.5	12		212.0			
14		212.8	14		214.1			
16		216.1	16		217.1			
18		220.7	18		221.3			
20		227.0	20		226.2			
22		229.8	22		230.1			
24		231.5	24		232.2			
26		232.3	26		233.6			
28		237.0	28		237.8			
31.1		242.3	31.1		242.2			

Remarks: \_\_\_\_\_



Tool Description	O.D.	I.D.	Length	Depth
DRILL PIPE	3.5"	2.764"	2059'	
DRILL COLLARS	6.5"	2.75"	492'	
X/O	5.75"	2.25"	1'	
REVERSING SUB	5.75"	2.813"	1'	2552'
DUAL CIP SAMPLER	5"	.75"	6.75'	
HYDROSPRING TESTER	5"	.75"	5'	2563'
AP RUNNING CASE	5"	3.06"	4.12'	2565'
BIG JOHN JARS	5"	1.75"	5'	
VR SAFETY JOINT	5"	1"	2.78'	
PACKER	6.75"	1.53"	5.81'	2580'
PACKER	6.75"	1.53"	5.81'	2586'
FLUSH JOINT ANCHOR	5.75"	2.87"	33'	
BLANKED OFF BT RUNNING CASE	5.75"	2.25"	4.12'	2622'
TOTAL DEPTH				2625'



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

January 5, 1982

Diamond Shamrock Corp.  
85 South 200 East  
Vernal, Utah 84078

Re: Well No. Castle Peak #7R  
Sec. 10, T. 9S, R. 16E  
Duchesne County, Utah

Gentlemen:

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

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

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

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

Cari Furse  
Clerk Typist