

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE WATER SANDS LOCATION INSPECTED **OIL & GAS** SUB. REPORT/a b d

DATE FILED **6-17-82**

LAND: FEE & PATENTED STATE LEASE NO PUBLIC LEASE NO **U-42038** INDIAN

DRILLING APPROVED: **6-30-82**

SPUDED IN:

COMPLETED PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: **5201' 9R**

DATE ABANDONED: **1-29-85 LA well never drilled**

FIELD: **UNDESIGNATED MONUMENT BUTTE 734**

UNIT:

COUNTY: **DUCHESNE**

WELL NO **COTTON #44-4** API NO. **43-013-30676**

LOCATION **660'** FT. FROM (S) LINE. **660'** FT. FROM (E) LINE. **SE SE** 1/4 - 1/4 SEC. **4**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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9S	17E	4	DIAMOND SHAMROCK				
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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 CORPORATION

3. ADDRESS OF OPERATOR
 Drawer E Vernal, UT. 84078 801-789-5270

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

660' FSL 660' FEL Section 4, T9S, R17E, S.L.B. & M.
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 14 miles Southwest of Myton, UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 660'

16. NO. OF ACRES IN LEASE
 40

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.
 N/A

19. PROPOSED DEPTH
 5900'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5201'

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

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/2"	8 5/8"	32# K-55	250'	Circulate to surface
7 7/8"	5 1/2"	15.5# K-55	T.D. 5900'	Circulate to surface

Drill 12 1/2" hole to approximately 250' set 8 5/8" casing, set up BOP as required and pressure test. Drill 7 7/8" hole to approximately 5300' if production is found feasible set 5 1/2" production casing.

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

DATE: 6/15/82
BY: [Signature]

RECEIVED

JUN 17 1982

DIVISION OF
OIL, GAS & MINING

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

SIGNED [Signature] TITLE District Superintendent

DATE 14 June 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

1. GEOLOGICAL NAME OF SURFACE FORMATION

(A) Uintah Formation of Eocene Age

2. TOPS OF IMPORTANT GEOLOGICAL MARKERS

(A) Top Oil Shale	4537
(B) Horsebench Sand	2233
(C) Base Oil Shale	3129
(D) Garden Gulch MBR	3671
(E) Douglas Creek MBR	4647
(F) Douglas Creek IV Sand	4779
(G) Douglas Creek III Sand	5099
(H) Dougals Creek I Sand	5129
(I) Upper Black Shale	5272
(J) Wastach Tongue MBR	5479
(K) Wastach Tongue III Sand	5517
(L) Wastach Tongue I Sand	5719
(M) Lower Black Shale	5786
(N) T.D.	5900

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL OR GAS

(A) Oil anticipated in Douglas Creek IV Sand, Douglas Creek III Sand, Douglas Creek I Sand, Wastach Tongue III.

4. PROPOSED CASING PROGRAM

(A) 250' of 8 5/8" surface casing 32# per foot.
5700' of 5 1/2" 15.5 per foot. (K-55)

5. SPECIFICATION FOR PRESSURE CONTROL EQUIPMENT

(A) 12 inch 3000# Double Hydraulic B.O.P. with pipe rams and blind rams and spherical B.O.P.

(B) B.O.P. to be pressure tested before spudding and daily testing of closing units and rams while drilling.

6. PROPOSED CIRCULATION 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

(B) Float at bit

(C) Floor T.I.W. Valve (stabbing valve) for drill pipe

(D) Gas detector logging unit

8. TESTING, LOGGING AND CORING PROGRAM

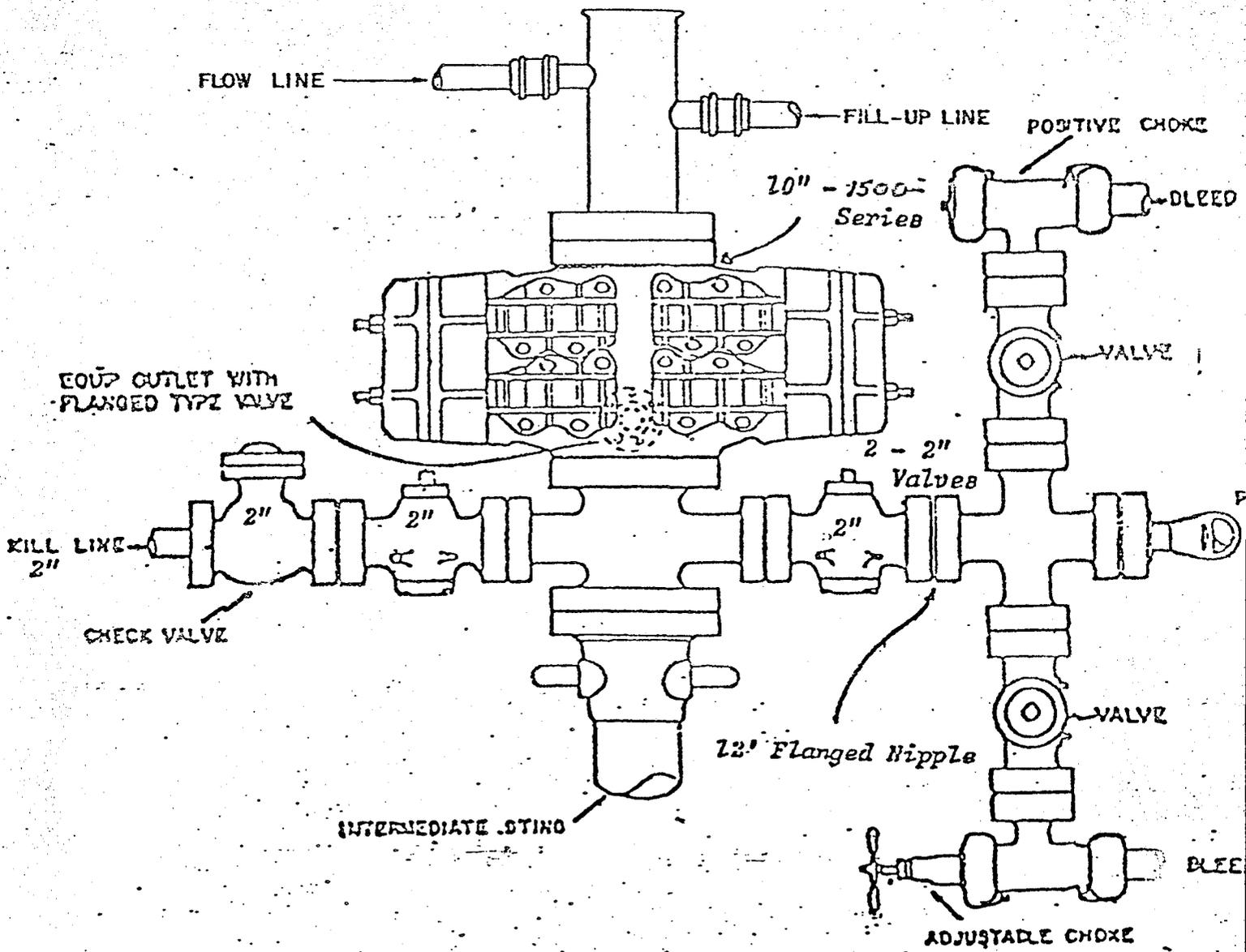
- (A) DIL-SFL Base of surface casing T.D.
- (B) GR-FDC-CNL Base of surface casing T.D.
- (C) Cyberlook - Base of surface casing T.D.
- (D) BHC-Sonic - Base of surface casing T.D.

9. ANTICIPATED ABNORMAL PRESSURES, TEMPERATURES OF HAZARDS

- (A) No abnormal pressures expected
- (B) No hydrogen sulfide gas expected

10. STARTING DATE AND DURATION OF OPERATIONS

- (A) Anticipated starting date as soon as approvals are made. (July 1, 1982)
- (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 CORPORATION

13 Point Surface Use Plan

Well Location

Cotton Federal #44-4

Located In

Section 4, T9S, R17E, S.L.B. & M.

Duchesne County, Utah

DIAMOND SHAMROCK CORPORATION
Cotton Federal #44-4
Section 4, T9S, R17E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach DIAMOND SHAMROCK CORPORATION, well location site Cotton Federal #44-4, located in the SE 1/4 SE 1/4 Section 4, T9S, R17E, S.L.B. & M., Duchesne County, Utah:

Proceed Westerly out of Myton, Utah along U.S. Highway 40 - 1.4 miles to the junction of this Highway and Utah State Highway 53; proceed Southerly along Utah State Highway 53 - 1.6 miles to its junction with Utah State Highway 216; proceed Southerly along State Highway 216 - 10.4 miles to its junction with an existing dirt road to the Northeast proceed Northeasterly along this road 0.2 miles to the beginning of the proposed access road to be described in Item #2.

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exits to the South; thereafter the road is constructed with existing materials and gravels. The Highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt road will require upgrading which will meet the requirements of Item #2.

The roads that are required for access during the drilling phase, completion phase, and production phase, of this well will be maintained at the standards required by the B.L.M. or other controlling agencies. This maintenance will consist of some minor grader work for smoothing of road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The planned access road leaves the existing road described in Item #1 in the NE 1/4 NE 1/4 Section 9, T9S, R17E, S.L.B. & M., and proceeds in a Northerly direction approximately 700' to the proposed location site.

The 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 areas of the road will be 1 1/2 to 1 slopes and terraced.

There will be no culverts required along this access road.

There will be no turnouts required along this road.

There are no fences encountered along this access road therefore there are no gates or cattleguards required.

The lands involved in this action are under B.L.M. jurisdiction.

The terrain that is traversed by this road is relatively flat. The grade of this road will not exceed 8%.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

There are no known water wells, producing wells, abandoned wells, drilling wells, shut-in wells for observation or for other resources within a one mile radius.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are existing production facilities belonging to DIAMOND SHAMROCK CORPORATION within a one mile radius.

A tank battery site will be set at the proposed location site. This battery will be used to contain production from this well. If in the event this battery can not be improvised, a flowline will be built which will extend to existing facilities in the area.

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 operation after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "B".

At the present time, it is anticipated that the water for this well will be hauled by truck over the existing roads and the proposed access road approximately 13.6 miles from the Duchesne River at a point where it crosses under U.S. Highway 40.

In the event that this source is not used, an alternate source will be used and all necessary arrangements will be made with the proper authorities.

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

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No 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.

7. METHODS OF HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will vary in size and depth according to the water table at the time of drilling.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals and produced fluids, etc.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and other reclamation activities are attempted.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

A portable toilet will be supplied for human waste.

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. Representative shall be notified before any construction begins on the proposed location site.

As mentioned in Item #7, 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.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

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.

Any drainages re-routed during construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash basket shall be hauled to the nearest Sanitary Landfill.

Restoration activities shall begin within 90 days after completion of the well. Once restoration activities have begun, they shall be completed within 30 days.

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. Representative when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up 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.

11. OTHER INFORMATION

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

The area is a large basin formed by the Uinta Mountains to the North and the Book Cliff Mountains to the South. The Duchesne River is located approximately 10 miles to the North of the location site.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone ledges, conglomerate deposits, and shale are common in this area.

The geologic structures of the area that are visible are of the Uinta formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger alluvial deposits from the Quaternary Period.

DIAMOND SHAMROCK CORPORATION
Cotton Federal #44-4
Section 4, T9S, R17E, S.L.B. & M.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a light brownish-gray sandy clay (SM-ML) type soil with poorly graded gravels to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of a non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid regions and consists of areas of sagebrush, rabbitbrush, some grasses and cacti as the primary flora. This is also true of the lower elevations.

The fauna of the area is sparse and consists predominantly of the mule deer, pronghorn antelope, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

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

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

Cotton Federal #44-4 is located approximately 4000' South of Castle Peak Draw a non-perennial drainage which runs to the South and East into the Green River.

The terrain in the vicinity of the location slopes from the South through the location site to the North at approximately a 1.0% grade.

The vegetation in the immediate area surrounding the location site consists of grasses and sparse amounts of sagebrush.

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

All lands involved under this action are under B.L.M. jurisdiction.

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

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

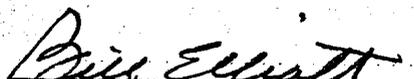
Bill Elliot
DIAMOND SHAMROCK CORPORATION
85 South 200 East
Vernal, UT 84078

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 operation proposed herein will be performed by DIAMOND SHAMROCK CORPORATION and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

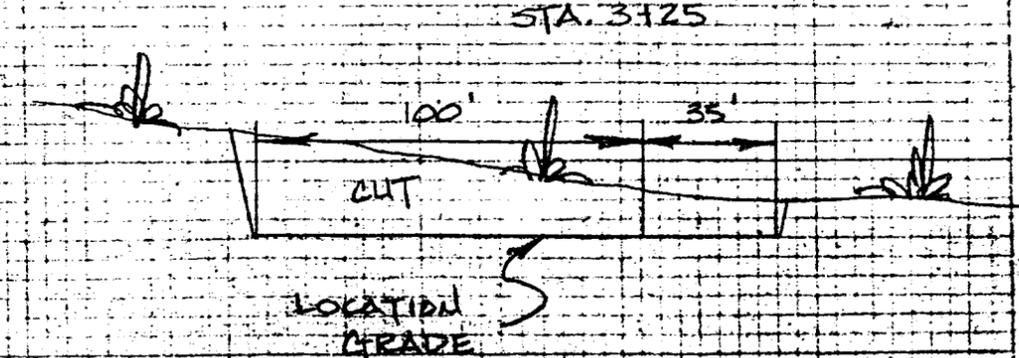
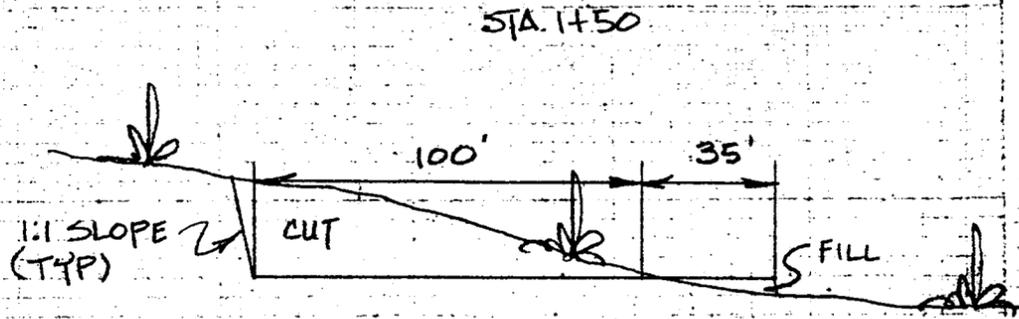
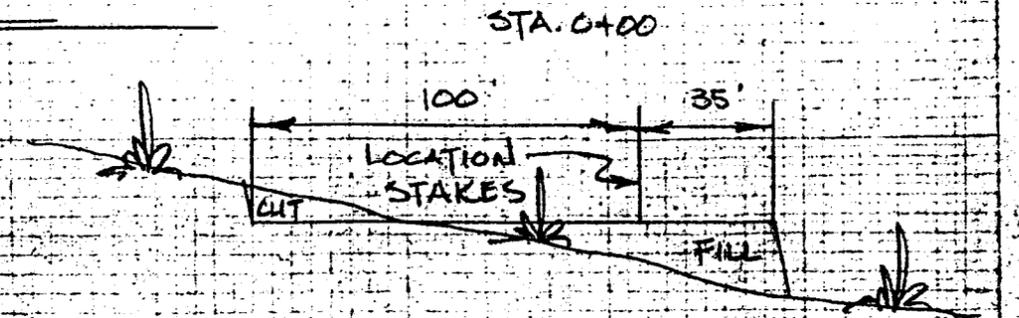
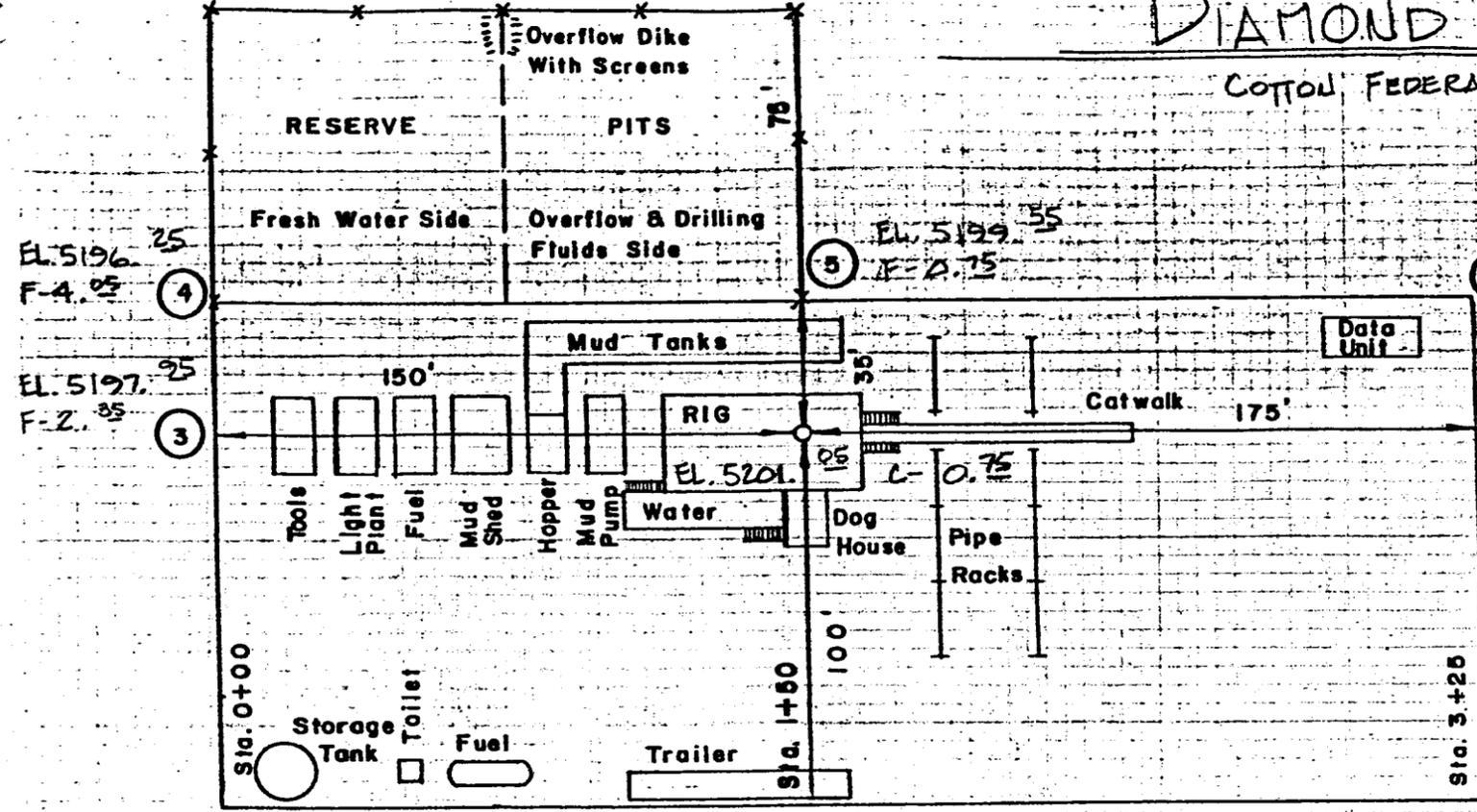
Date


Bill Elliot

EL. 5195.05 EL. 5198.55

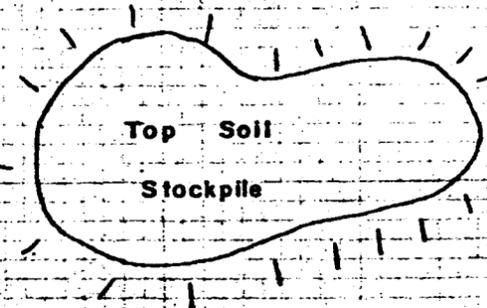
DIAMOND SHAMROCK

COTTON FEDERAL #44-4



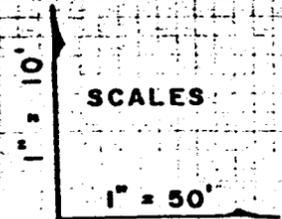
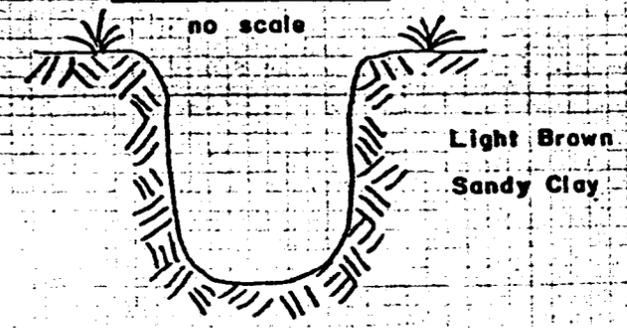
CROSS SECTIONS

EL. 5202.25 C-1.95
 EL. 5205.25 C-4.75



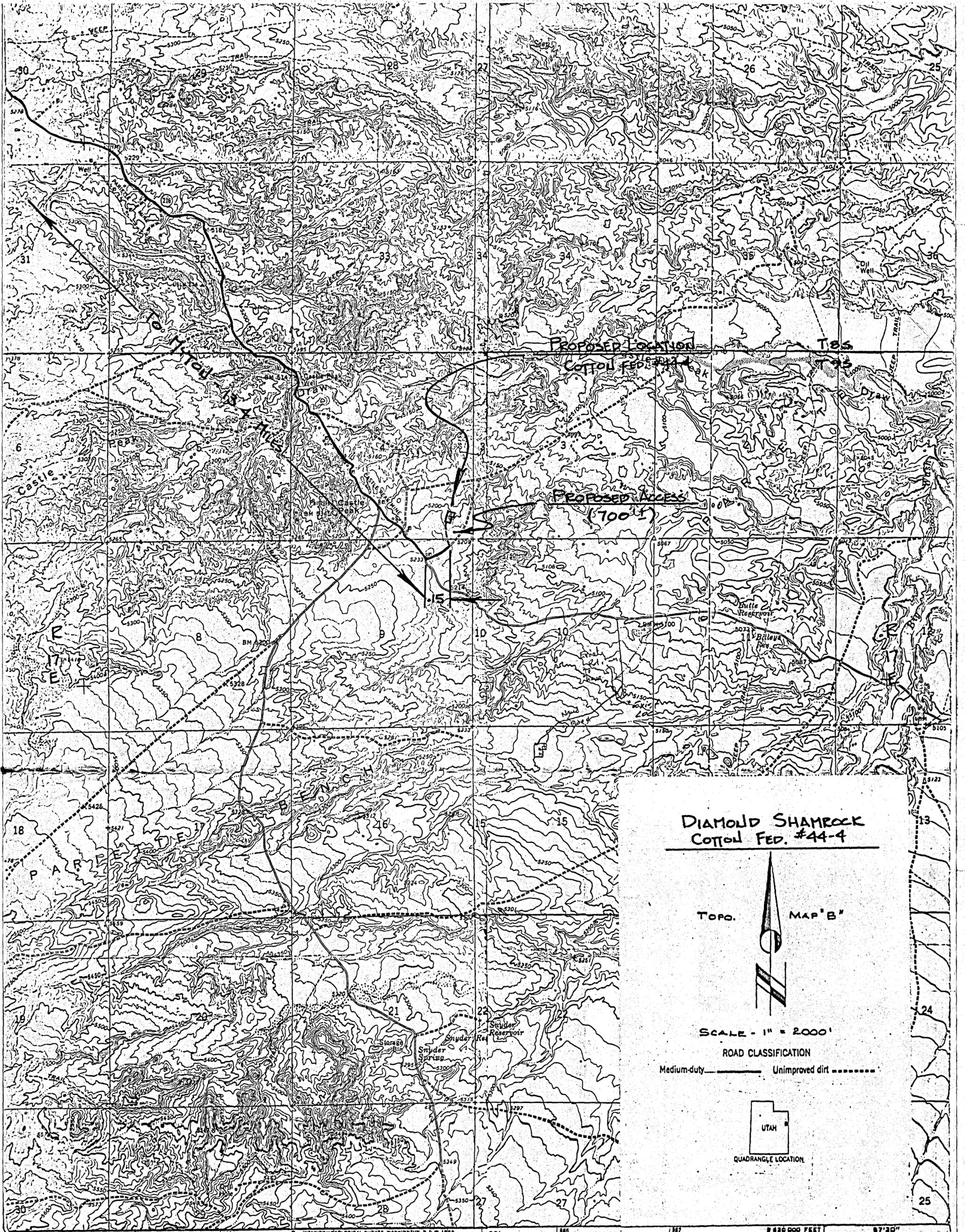
EL. 5205.45 C-5.15

SOILS LITHOLOGY

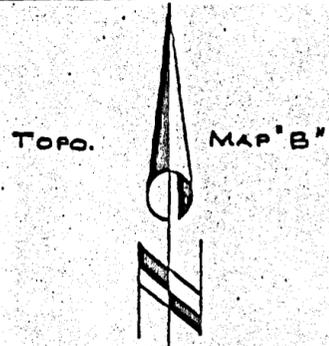


APPROXIMATE YARDAGES

Cubic Yards of Cut - 3,522
 Cubic Yards of Fill - 524



DIAMOND SHAMROCK
COTTON FED. #44-4



SCALE - 1" = 2000'

ROAD CLASSIFICATION
Medium-duty ——— Unimproved dirt - - - - -



QUADRANGLE LOCATION

** FILE NOTATIONS **

DATE: June 22, 1982

OPERATOR: Diamond Shamrock Corporation

WELL NO: Cotton #44-4

Location: Sec. ^{SESE} 4 T. 9S R. 17E County: Lusher

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-013-30676

CHECKED BY:

Petroleum Engineer: OK

Director: _____

Administrative Aide: OK As Per Rule C-3

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 Fed

Plotted on Map

Approval Letter Written

Hot Line

P.I.

July 1, 1982

Diamond Shamrock Corporation
Drawer E
Vernal, Utah 84078

RE: Well No. Cotton #44-4
Sec. 4, T9S, R17E
Duchesne County

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:

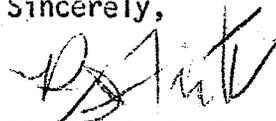
CLEON B. FEIGHT
Office: 533-5771
Home: 466-4455

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 43-013-30676.

Sincerely,



RONALD J. FIRTH
CHIEF PETROLEUM ENGINEER

RJF:SC
cc: Minerals Management Service
Enclosure



Diamond Shamrock

November 15, 1982

Mr. E. W. Guynn-District Oil & Gas Supervisor
Minerals Management Service
2000 Administration Building
1700 West 1700 South
Salt Lake City, Utah 84104

Re: Application for Permit to Drill
Well No. 44-4
Section 4, T9S, R17E
Duchesne Co., Utah
Lease #U50752

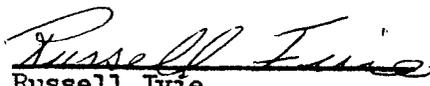
Mr. Guynn:

Enclosed is the original, and two copies, of the Designation of Operator, required to complete the processing of the referenced application.

Before approving the application for the subject well, would you please scratch the reference to Cotton Petroleum from the unit name? This was mistakenly inserted by Uintah Engineering before the application was submitted to MMS. Diamond Shamrock Corporation will be using the lease name of Purcell in reference to Well No. 44-4.

Should you require additional information please contact this office at the address or phone number listed below.

Sincerely yours,


Russell Ivie
District Superintendent
DIAMOND SHAMROCK CORPORATION
Vernal District Office

RI/ln

xc: Bill Organ/Denver
Wes Childers/Casper
file
Utah-Division of Oil, Gas & Mining

RECEIVED

NOV 16 1982

DIVISION OF
OIL, GAS & MINING

(Submit in triplicate to appropriate
Regional Oil and Gas or Mining Supervisor)**DESIGNATION OF OPERATOR**

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

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-50752

and hereby designates

NAME: Diamond Shamrock Corporation
ADDRESS: 410 17th Street, Suite 600, Denver, CO 80202

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

Township 9 South - Range 17 East
Section 4: SE $\frac{1}{4}$ SE $\frac{1}{4}$
Duchesne County, Utah

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

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

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

July 6, 1982

.....
(Date)
.....
(Signature of lessee)
Cotton Petroleum Corporation
717 17th Street, Suite 2200
Denver, Colorado 80202
.....
(Address)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY OPERATIONS DIVISION

5. LEASE DESIGNATION AND SERIAL NO.
U-50752

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
~~MT 42030~~

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEEN PLUG BACK
 JUN 17 1982
 SALT LAKE CITY, UTAH

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

2. NAME OF OPERATOR
 DIAMOND SHAMROCK CORPORATION

3. ADDRESS OF OPERATOR
 Drawer E Vernal, UT. 84078 801-789-5270

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

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SIGNED Bruce Elliott TITLE District Superintendent DATE 14 June 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE NOV 19 1982
 APPROVED BY W.P. Martin for E. W. Guynn
 CONDITIONS OF APPROVAL, IF ANY: _____ TITLE District Oil & Gas Supervisor

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

TO OPERATOR'S COPY

*See Instructions On Reverse Side

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

State Oil & Gas

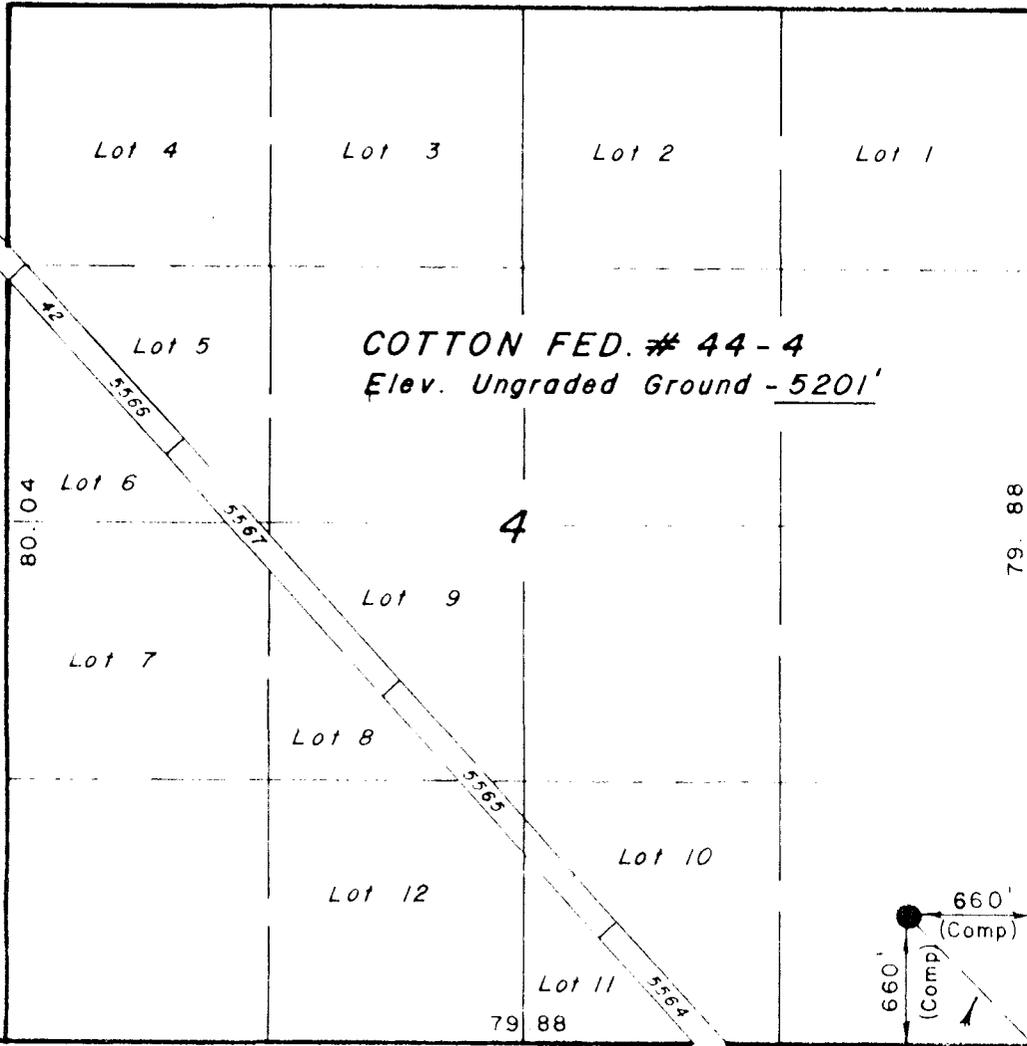
PROJECT

DIAMOND SHAMROCK CORP.

T 9 S, R 17 E, S.L.B.&M.

Well, location, COTTON FED. #44-4, located as shown in the SE 1/4 SE 1/4, Section 4, T 9 S, R 17 E, S.L.B.&M., Duchesne County, Utah.

N 89° 58' E



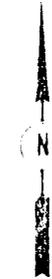
COTTON FED. # 44-4
Elev. Ungraded Ground - 5201'

S 89° 55' W

S 44° 59' 30" E - 931.89'

SW 1/4 Sec 5,
T 9 S, R 17 E, S L M

X = Section Corners Located



I hereby certify that the above plat was prepared from the field notes and data furnished to me by the owner and that the same are true and correct to the best of my knowledge and belief.

REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UNITAH ENGINEERING & LAND SURVEYING
P O BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	6/2/82
PARTY	RT, M.D.	JH	REFERENCES GLO PLAT
WEATHER	Clear, Warm	FILE	DIA. SHAM

Diamond Shamrock Corporation
Well No. 44-4
Section 4, T.9S., R.17E.
Duchesne County, Utah
Lease U-50752

Supplemental Stipulations

- 1) The maximum width of access roads will be 30 feet total disturbed area. Turnouts will not be required and traveling off the right-of-way will not be allowed.
- 2) Topsoil will be stockpiled as addressed in the 13 Point Plan. It is recommended that the top 6-10 inches of topsoil material be stockpiled.
- 3) The BLM will be notified at least 24 hours prior to any rehabilitation.
- 4) A burn pit will not be constructed. There will be no burying of garbage or trash at the location. No trash will be thrown in the reserve pit. All trash must be contained and hauled to the nearest sanitary landfill.
- 5) All permanent (on site for six (6) months duration or longer) structures constructed or installed, including the pumpjack, shall be painted a flat, non-reflective, earth tone color to match Tnemec 23-08351 Mesa Brown Enduratone or an approved equal. All facilities shall be painted 6 months of when the production facilities are put in place, facilities that are required to comply with O.S.H.A. (Occupational Safety and Health Act) standards are excluded.
- 6) Reserve pits will be fenced with a wire mesh fence topped with at least one strand of barbed wire.
- 7) Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Mahogany Zone of the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale resource. Surface casing program may require adjustment for protection of fresh water aquifers. (See attached tentative casing and cementing program for the Uinta Basin.)



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

February 2, 1981

General Outline for the Protection and Isolation of Ground Water and Oil Shale in the Uinta Basin.

The oil shale occurs with varying thicknesses in most parts of the Uinta Basin and at varying depths. Ground water also occurs at varied depths above and below the Oil Shale. These ground waters have varying degrees of salinity. Nonetheless, drilling for hydrocarbon in the Uinta Basin should provide for the protection of the oil shale and the ground water if either is present.

The protection of the oil shale and the ground water can effectively be carried on through the design of an adequate casing and cementing program for each well drilled in the area.

In the Uinta Basin, water occurs mainly in the Uinta and the Green River formations. As drilling for hydrocarbon gets deeper into the crust of the earth, more ground water might be encountered and will be protected as it is encountered.

This notice's purpose is to attempt to lay the groundwork for a casing program and cementing program that will protect the oil shale and the ground water if present.

These programs are to be considered as guidelines. The specificity of casing depth, amount of cement and the depth of staging collars will be considered on an individual basis after a careful study of the logs of each individual well. Cementing from the bottom up is an economical solution if carefully conducted.

The casing and cementing program presented here as an example, will assume that fresh water was encountered in the upper parts of the Green River, that the oil shale occurs in the middle of the Green River (1000 foot section) and that some ground water is encountered in the lower parts of the Green River.

In this case, three areas will have to be cemented to assure the integrity of the ground water and oil shale. These areas are above the upper fresh water, across the oil shale and below the lower water aquifer. Deep aquifers that do not contain useful water are cemented to prevent water zone influence on production.

The following casing and cementing program will be appropriate for this example:

- A. Surface casing is set at approximately 300 feet and cemented to the surface.

- B. The next casing string will be set at approximately 300 feet below the lowest aquifer. Cementing will be done in three stages, using two stage collars and cement baskets or equivalent as described below and on attached sketches:
1. Cement first stage through the casing shoe to fill annulus back to base of lower aquifer.
 2. Place 1st stage collar (with cement basket immediately below) at a selected point at the base of the oil shale. Cement will have to reach top of oil shale.
 3. Place 2nd stage collar (with cement basket immediately below) 50 feet above the top of the Bird's Nest aquifer and cement to at least 300 feet above the stage collar.
- C. The above is an example. Reasonable equivalents that accomplish these same protective measures, (such as cementing the water zones instead of isolating them), depending on the individual cases will be considered for approval.
- D. When the above mentioned well is to be abandoned, inner-casing plugs will have to be placed at the same depth as the above mentioned annulus cement jobs.

The use of cement bond logs will verify the authenticity of the cement job performed.

- E. The Operator of such well should notify U.S.G.S. 48 hours prior to commencement of casing and cementing activity, so a technician could be dispatched to witness the operations to verify compliance with casing and cementing program.

Attached Sketches:

1. Schematic of the required casing and cementing program.
2. Cross section of the Uinta Basin.
3. Schematic of the general ground water protection program.

E. W. Gynn
District Oil and Gas Supervisor

AMR/kr

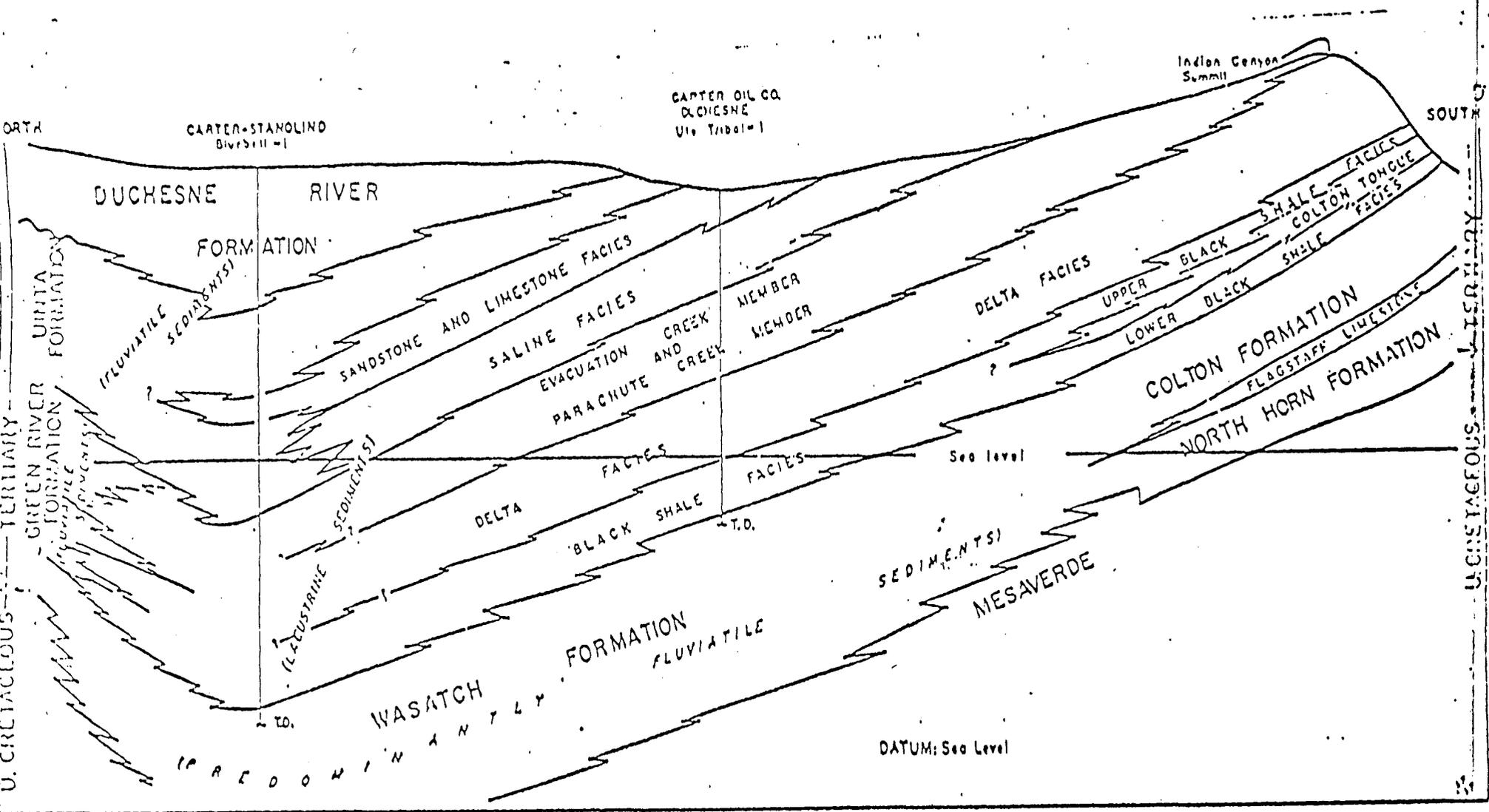
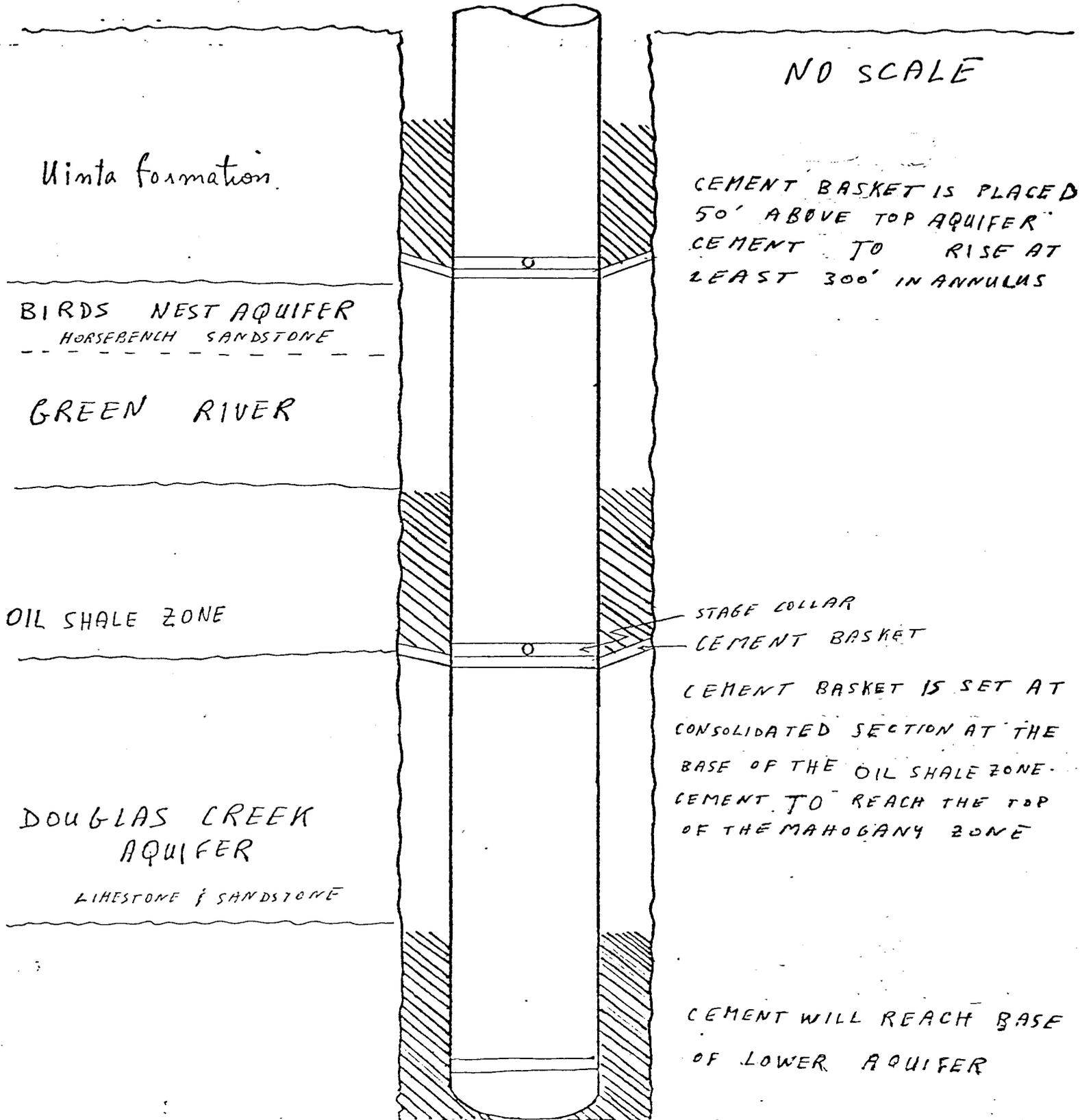


Figure 5.- View east of cross section of Uinta Basin showing stratigraphy and intertonguing of Tertiary rocks. Ute Tribal-1 (in section) is located about 8 miles southeast of the application area.

PARTIAL CASING & CEMENTING PROGRAM FOR WELLS IN NATURAL BUTTES FIELD. UINTAH COUNTY, UTAH





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

March 4, 1983

Diamond Shamrock Corporation
Drawer E
Vernal, Utah 84078

Re: See attached list of wells

Gentlemen:

In reference to the above mentioned wells, 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 these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill these locations at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Well Records Specialist

CF/cf

Well No. Goates Federal # 13-14
Sec. 14, T. 9S, R. 16E.
Duchesne County, Utah

Well No. Castle Peak Federal # 44-15
Sec. 15, T. 9S, R. 16E.
Duchesne County, Utah

Well No. Cotton # 44-4
Sec. 4, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Paiute Federal # 24-7
Sec. 7, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Paiute Federal # 11-18
Sec. 18, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Paiute Federal 3 42-18
Sec. 18, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Pariette Bench Federal # 32-8
Sec. 8, T. 9S, R. 19E.
Uintah County, Utah



Diamond Shamrock

March 11, 1983

Ms. Cari Furse
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Re: See attached list of wells

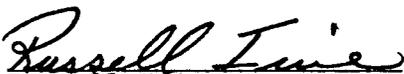
Ms. Furse:

In response to your letter of March 4, 1983, concerning the subject wells, we have discussed this matter with the Diamond Shamrock Exploration Department in Denver, they have informed this office, that with the exception of Well No. Pariette Bench Federal #32-8, all the wells are still on the current drilling program.

We would appreciate no termination of the Approvals for Permit to Drill on the remaining wells listed. Enclosed is a copy of this letter, as well as an SASE, for your acknowledgement of receipt.

Should you require additional information, please contact this office at the address or phone number listed below.

Yours truly,


Russell Ivie
District Superintendent
DIAMOND SHAMROCK CORPORATION
Vernal District Office

Enclosures

xc: file

RI/lh

[Handwritten signature]
MAR 11 1983

DIVISION OF

OIL, GAS AND MINING

Well No. Goates Federal # 13-14
Sec. 14, T. 9S, R. 16E.
Duchesne County, Utah

Well No. Castle Peak Federal # 44-15
Sec. 15, T. 9S, R. 16E.
Duchesne County, Utah

Well No. Cotton # 44-4
Sec. 4, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Paiute Federal # 24-7
Sec. 7, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Paiute Federal # 11-18
Sec. 18, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Paiute Federal 3 42-18
Sec. 18, T. 9S, R. 17E.
Duchesne County, Utah

** Well No. Pariette Bench Federal # 32-8 ** TERMINATE
Sec. 8, T. 9S, R. 19E.
Uintah County, Utah



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

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

September 30, 1983

Diamond Shamrock Corporation
Drawer E
Vernal, Utah 84078

Re: See attached page for wells

Gentlemen:

In reference to the above mentioned wells, 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 these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill these locations at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

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

Cari Furse
Well Records Specialist

CF/cf

Well No. Cotton # 44-4
660' FSL, 660' FEL
Sec. 4, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Allen Federal # 43-5
2352' FSL, 724' FEL
Sec. 5, T. 9S, R. 17E.
Duchesne County, Utah

Well No. POMCO # 9-7
739' FSL, 2051' FWL
Sec. 7, T. 9S, R. 17E.
Duchesne County, Utah

Well No. Federal DMD # 17-1
2059' FSL, 584' FEL
Sec. 17, T. 9S, R. 17E.
Duchesne County, Utah

DIAMOND CHEMICALS COMPANY



FORMERLY

Diamond Shamrock

RECEIVED
OCT 5 1983

October 4, 1983

**DIVISION OF
OIL, GAS & MINING**

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

ATTENTION: Cari Furse

Re: Your letter of September 30, 1983

Ms. Furse,

In answer to the subject letter, (copy enclosed), the spud notice for the Allen Federal #43-5, NE $\frac{1}{4}$ /SE $\frac{1}{4}$ Section 5, T9S, R17E, Duchesne County, Utah, Lease U-020252, was reported to your office yesterday, October 3, 1983. The other three wells you reference on your enclosure are not on the immediate drilling program for Diamond Chemicals.

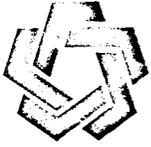
Should you require additional information, please contact me at the Vernal Office, the address and phone number are listed below.

Sincerely yours,

Russ Ivie
District Superintendent
DIAMOND CHEMICALS COMPANY
Vernal District Office

RI/lm

Attachments



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

January 2, 1984

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Gentlemen:

Re: Well No. Cotton #44-4 - Sec. 4, T. 9S., R. 17E.
Duchesne County, Utah - API #43-013-30676 - Lease #U-50752

The above referred to well in your district was given Federal approval to drill November 19, 1982. This office has not received notification of any activity on this location.

Please let me know what action, if any, the Bureau of Land Management is taking on this well.

Thank you for your help in keeping our records up to date.

Sincerely,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0009S/7



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

June 6, 1984

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Attention Ms. Benna Muth

Gentlemen:

Enclosed is a list of wells in your district that were given State approval to drill over one year ago. We have received copies of federal approval as noted.

Please let me know what action, if any, the Bureau of Land Management is taking on these wells.

Thank you for your help in keeping our records up to date.

Sincerely,

A handwritten signature in cursive script that reads "Claudia Jones".

Claudia Jones
Well Records Specialist

cj

Enclosure

cc: Dianne R. Nielson, DOGM
Ronald J. Firth, DOGM
John R. Baza, DOGM
File

ATTACHMENT #1
June 6, 1984

Coseka Resources (USA) Limited
Well No. 13-4-15-23
NW/NW Sec. 4, T. 15S., R. 23E.
Uintah County, Utah
Lease #U-8361

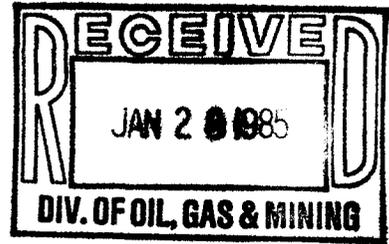
Federal Approval - September 20, 1982
State Approval - May 25, 1982

Diamond Shamrock Exploration
Well No. P.O.M.C.O. 9-7
SE/SW Sec. 7, T. 9S., R. 17E.
Duchesne County, Utah
Lease #U-3563

Federal Approval - June 24, 1980
State Approval - November 29, 1979

Diamond Shamrock Exploration
Well No. Purcell #44-4
SE/SE Sec. 4, T. 9S., R. 17E.
Duchesne County, Utah
Lease #U-50752

Federal Approval - November 19, 1982
State Approval - July 1, 1982



3100
U-810

June 7, 1984

Diamond Shamrock Corp.
Drawer E
Vernal, UT 84078

Re: Rescind Application for Permit to Drill
Well No. 44-4
Section 4, T9S, R17E
Duchesne County, Utah
Lease U-50752

Gentlemen:

The Application for Permit to Drill the referenced well was approved on November 19, 1982. Since that date, no known activity has transpired at the approved location. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,


Lloyd H. Ferguson
District Manager

cc: Well File
State O & G
SMA

JKenczka ma
CEK



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

January 29, 1985

Diamond Shamrock
410 Seventeenth Street, Suite 600
Denver, Colorado

Gentlemen:

Re: Well No. Cotton #44-4 Sec. 4, T. 9S., R. 17E.
Duchesne County, Utah - API #43-013-30676

In concert with action taken by the Bureau of Land Management, June 7, 1984, approval to drill the above referred to well is hereby rescinded without prejudice.

A new "Application for Permit to Drill" must be filed with this office, for approval, prior to future drilling of the subject location.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza
Petroleum Engineer

clj

cc: Dianne R. Nielson
Ronald J. Firth
File

0009S/16