Form 9-331 C		N.M.O.C.D. CO	DV SUBMIT IN TRI	PLICATE*	C/S <sup>rr</sup> Form approved Budget Bureau	l. No. 42-R1425.
(May 1963)		TED STATES	(Other me	ions on . .e) -	20-015-2	·
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\*See Instructions On Reverse Side

## NEW MEXICO OIL CONSERVATION COMMISSION WE LOCATION AND ACREAGE DEDICATI PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

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N.M.O.C.D. COTT



United States Department of the Interior

GEOLOGICAL SURVEY SPECIAL APPROVAL STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN:

HOLLY ENERGY INC. Shugart Federal Com No. 1 NW\SW\Sec. 7 T. 18S R. 31E Eddy County New Mexico Lease No. NM-40652 O. C. D. ARTESIA, OFFICE

THE SPECIAL STIPULATIONS CHECK MARKED BELOW ARE APPLICABLE TO THE ABOVE-DESCRIBED WELL AND APPROVAL OF THIS APPLICATION TO DRILL IS CONDITIONED UPON COMPLIANCE WITH SUCH STIPULATIONS. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE SPECIAL STIPULATIONS PURSUANT TO TITLE 30 CFR 290.

A. <u>13%</u> "surface casing should be set in the Rustler Anhydrite formation and cement circulated to the surface. If surface casing is set at a lesser depth, the \_\_\_\_\_\_ casing must be demented from the casing shoe to the surface or demented to the surface through a stage tool set at least 50 feet below the top of the Rustler after cementing around the shoe with sufficient dement to fill . to the base of the salt section.

- B. Before drilling below the Circle casing, the blowout preventer assembly will consist of a minimum of one annular type and two ram type preventers.
- C. Casing protectors will be run on drill pipe while drilling through the casing. Protectors will be of sufficient number and of sufficient outside diameter to protect the casing.
  D. Minimum required fill of cement behind the 8% casing is to Circulate to Surface.



After setting the 8% casing string and before drilling into the WolkCamp formation, the blowout preventers and related control equipment shall be pressure tested to rated working pressures by an independent service company Any equipment failing to test satisfactorily shall be repaired or replaced. This office should be notified in sufficient time for a representative to witness the tests and shall be furnished a copy of the pressure test report.

F. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be installed and operating before drilling into the Monitoring equipment shall consist of the following:

- A recording pit level indicator to determine bit volume gains and losses.
- (2) A mud volume measuring device for accurately determining had volume peressary to fill the hole on trips.
- (3) A flow sensor on the flow-line to warn of any abnormal mudreturns from the well.
- All pits containing toxic liquids will be fenced and covered with a fine mesh netting, if necession for the protection of livestock or wildlife.



Above ground permanent structures and equipment shall be painted in accordance with the Painting Guidelines. The paint color is to simulate:

Sandstone Brown, Fed. Std. 595-20318 or 30318 ORX Sagebrash Grave Fed. Std. 595-26357 on 36357 

1. A well' coc- will be installed and maintained in operative condition.

 IN
 The ARTRESIA Sub-District diffice is to be motivied in sufficient time for a representative to witness:

 (a)
 Spudding

 (b)
 Cementing casing

 BSB' inch
 inch

 inch
 inch

 (c)
 300-tests

1 r. A Lommunitization Agreement covering the acreage decreated to the well must be filed for approval with the U.S. Geolegical Survey, P.D. Box 26124, Albuquerque, New Mexico (27125). The effective date of the agreement must be prior to any sales.

 7 Gamma Ray-Compensated Neutron log is required from the base of the salt section to the surface with cable speed not to exceed 30 feet per minute.

At least the working cay prior to constructing the well bad, access roads and/or related facilities, the operator or dirt contractor shall notify the authorized officer (Sureau of Land Management, CHARLS BAD) area). He shall also notify the Authorized Officer within two working days after completion of earth-moving activities.

X All access roads constructed in conjunction with the unilling permit (APD) will be limited to a <u>12</u> foot wide driving surface, excluding turnarounds. Surface disturbance associated with construction and/or use of the road will be limited to <u>20</u> reet in width. If well is a producer, all roads will be adequately drained to control runoff and soil erosion. Drainage facilities may include ditches, water bars, culverts and/or any other measures deemed necessary by the authorized officer of the BLM. The following is a general cuide for the spacing of water bars:

Slope

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		than									·	·	•	·	·	·	50	tt.
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Any permanent pit containing waste oil must be fenced and covered with mesh wire.

Utilize existing pipeline road in the NW b. NW & NENW OF sec. 18 T18, 5 R 315 and the SWSE Sec 7 T18, R 312 See Attached Map. See Attached -3-

## APPLICATION FOR DRILLING

Holly Energy Inc. Shugart Federal Com #1 Section 7 T-18S R-31E Eddy County, New Mexico

In conjunction with form 9-113C, application for permit to drill subject well in Section 7, Township 18 South, Range 31 East, Eddy County, New Mexico, Holly Energy Inc., submits the following 12 items of pertinent information in accordance with U.S.G.S. requirements:

1. The geologic surface formation is quaternary alluvium.

2. The estimated tops of geologic markers are as follows:

1950' Yates 3050' Queen 6100' Bone Spring 9750' Wolf Camp 10,750' Strawn 11,065' Atoka 11,550' Morrow

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered are:

Water: Water at approximately 300' base 500' Oil or Gas:

- 4. Proposed Casing Program: See form 9-331C
- 5. Pressure Control Equipment: See form 9-331C and Exhibit E
- 6. Mud Program: See form 9-331C

. **-**\*

- 7. Auxiliary Equipment: Blowout Preventer, Inside Blowout Preventer, Kelly Cock.
- 8. Testing, Logging and Coring Program:

Pressure test: Surface casing to 1000 psig and Production casing to 1500 psig. Drilling samples: 10' samples 4500' to TD Electric Logging: Dual induction Lateral log and Compensated Neutron Log-formation and Density log TD to CLN- gamma ray TD to surface

9. No abnormal pressures or temperatures are anticipated.

10. Anticipated Starting Date: as soon as possible after approval.

MULTI-POINT SURFACE USE AND OPERATIONS PLANE CERV 1980 Holly Energy Inc. Shugart Federal Com #1 1980 FSL & 660 FWL Section 7 T-18S R-31E Eddy County, New Mexico

This plan is submitted with Form 9-331C, Application for Permit to Drill covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operations.

- 1. EXISTING ROADS.
  - A. Exhibit A is a portion of B.L.M. quad-color map no. SE-19 on a scale of 1/3" to a mile, showing the proposed location and the surrounding area. Exhibit B is a portion of U.S.G.S. topographical map, on a scale of approximately 2" to a mile, showing the wellsite area and existing roads in the immediate vicinity of the proposed location. The proposed location is a driving distance of approximately 38 miles east of Artesia, New Mexico.
    - (1) Proceed east on highway 82 from the intersection of highways 82 and 285 in Artesia, New Mexico for a distance of approximately 31 miles. At this point highway 31 intersects highway 82, turn right for approximately 5 miles. At this point there will be a Mewborne Oil and Texaco sign on the west side of the highway. Turn right, at this point. Mewborne Oil Co. has a water injection well., turn right (North) on a new lease road to Holly Energy Inc., Canadian Kenwood Federal 18 #1.
- 2. PLANNED ACCESS ROAD
  - A. The newly constructed access road will run North of Canadian Kenwood Federal 18 #1 for 1 mile and West 1900' to the Southeast corner of location. The access road will be 12' in width and the surface will be crowned in the center with drainage on both sides. No culvert or cattleguard will be needed.
  - B. The center line of the proposed new road has been staked and flagged and is clearly visible.
- 3. LOCATION OF EXISTING WELLS

A. Existing wells in the vicinity are shown on Exhibit C.

- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES
  - A. There are no existing production facilities on the lease .
  - B. In the event that the proposed well is productive, the necessary production facilities will be installed on the drilling pad.
- 5. LOCATION AND TYPE OF WATER
  - A. Any water used in the drilling operation will be fresh or brine water. The water will be purchased from commercial sources and will be hauled to the location by truck over the existing and planned roads shown on Exhibits A and R.

6. SOURCE OF CONSTRUCTION MATERIALS

A. Caliche for construction of the drilling pad and resurfaceing of the existing access road, will be obtained from Sec 13 T-185 E-31E

7. METHODS OF HANDLING WASTE DISPOSAL.

- A. Drill cuttings will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pit is dry.
- C. Water produced during operations will be disposed of in the reserve pit. Oil produced during operations will be stored in tanks until sold.
- D. Current laws and regulation pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage and junk will be buried in a seperate trash pit and covered with a miniumum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind.
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.
- 8. ANCILLARY FACILITIES.
  - A. None required.
- 9. WELLSITE LAYOUT.
  - A. Exhibit D shows the relative location and demensions of the well pad, reserve pit and major rig components.
  - B. Leveling will be required to construct the location. The ground surface at the wellsite is relatively flat with a 2' slope from East to West with sand dunes to the Northeast and South, the sanddunes will be leveled and pushed to east side of wellsite to level location and covered with 6 inches of compacted caliche.
- 10. PLANS FOR RESTORATION OF THE SURFACE.
  - A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. Pits will be filled and the location will be cleaned of all trash and junk to leave the wellsite in as aethetically pleasing a condition as possible.
  - B. Any unguarded pits containing fluids will be fenced until they have been filled.
  - C. If the proposed well is nonproductive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

## 11. OTHER INFORMATION

- A. Topography: The proposed wellsite is located in a relatively flat area, with undulations 6 to 8 feet in height.
- B. The topsoil at the wellsite is moderately soft sand.
- C. Flora and Fauna: The vegatation cover at the wellsite is moderately sparse, consisting of mesquite, shinnery oak, prairie flowers and weeds. The only wildlife observed were lizards and rabbits, but it is likely that other wildlife typical of semi-arid desert land also inhabit the area. The area is used for cattle grazing.
- D. There are no ponds, lakes, streams or rivers within several miles of the wellsite.
- E. The nearest occupied dwellings are south of the proposed location approximately 3 miles. There are no windmills within the immediate area.
- F. The wellsite is on Federal surface, with federal control of minerals.
- G. There is no evidence of any archeological, historical or cultural sites in the area of the wellsite.
- 12. OPERATOR'S REPRESENTATIVE.
  - A. The field representative responsible for accuring compliance with the approved surface use and operations plan is:

Robert Loyd Production Supervisor Holly Energy Inc. P.O. Box 726 Artesia, New Mexico 88210 Telephone: 505-746-6161 (Office) 505-365-2521 (Mobil) 505-365-2391 (Home)

## 13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drible site of a new route; that I am familiar with the consulations which presently ended; for the contrate a definition plan and to the best of my knowledge, the families of family family there will be contractors and its subcontractor in the family with this plan and conditions under which it is apprecia.

<u>9-29-8</u> DATE ------

Robert Toyof Superintendent



Exhibit "E" Shugart Federal Com #1 Section 7 T-18S R-31E Eddy County, New Mexico 15005 HYDRIL GK. . 10" 15005 DRILLING SPOOL PiPE RADS 10" ISODS SHAFFEN BLIND RAMS -DOUBLE HYDRAULC Type B



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