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UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/abd \_\_\_\_\_

DATE FILED **11-8-83**

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. **U-23761** INDIAN \_\_\_\_\_

DRILLING APPROVED: **11-8-83 - OIL (Cause No. 156-3)**

SPUDDED IN: \_\_\_\_\_

COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: *2-1-85 Application rescinded*

FIELD: **MEXICAN HAT 3/86**

UNIT: \_\_\_\_\_

COUNTY: **SAN JUAN**

WELL NO. **WILLIAMS-HICKS PEBBLES #4** API #43-037-30953

LOCATION **65' FNL** FT. FROM (N) (S) LINE. **1945' FEL** FT. FROM (E) (W) LINE. **NWNE** 1/4 - 1/4 SEC. **5**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				<b>42S</b>	<b>19E</b>	<b>5</b>	<b>LOUISE HICKS</b>

2

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**RECEIVED**  
NOV 10 1983  
DIVISION OF OIL, GAS & MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  NOV 10 PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 Louise Hicks

3. ADDRESS OF OPERATOR  
 432 West 3rd Cortez CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface 65 feet from the north line  
 1945 feet from the east line  
 At proposed prod. zone  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Two and one half miles

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 75 feet

16. NO. OF ACRES IN LEASE 651.22

17. NO. OF ACRES ASSIGNED TO THIS WELL 2 1/2

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000 feet

19. PROPOSED DEPTH 200' plus

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4287.08 Ungraded Gound

22. APPROX. DATE WORK WILL START\*  
 11-15-83

5. LEASE DESIGNATION AND SERIAL NO.  
 U-23761

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Williams-Hicks

9. WELL NO.  
 4

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R. M., OR B.L.K. AND SURVEY OR AREA  
 Mexican Hat  
 Sec. 5, 42S, 19E

12. COUNTY OR PARISH 13. STATE  
 San Juan Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Surface 9"	7 5/8"	20pd.	30'	7 sacks neat
6 3/4"	5 1/2"	17pd.	200"	18 sacks neat

Drill 9" hole with spud mud to set 7 5/8" surface casing. Drill 6 3/4" hole with air to TD. If productive, run 4 1/2" casing to TD.

Estimated Depth - Goodridge 200' plus

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 Louise Hicks TITLE Lease holder DATE 11-4-83

(This space for Federal or State office use)

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

APPROVED BY \_\_\_\_\_ DISTRICT MANAGER TITLE \_\_\_\_\_ DISTRICT MANAGER DATE 11-8-83

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

DOGMA J.H.

SUBJECT TO RIGHT OF WAY APPROVAL

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

COMPANY LOUISE HICKS ~~BARLIN ENERGY~~

LEASE FEDERAL WELL NO. #4

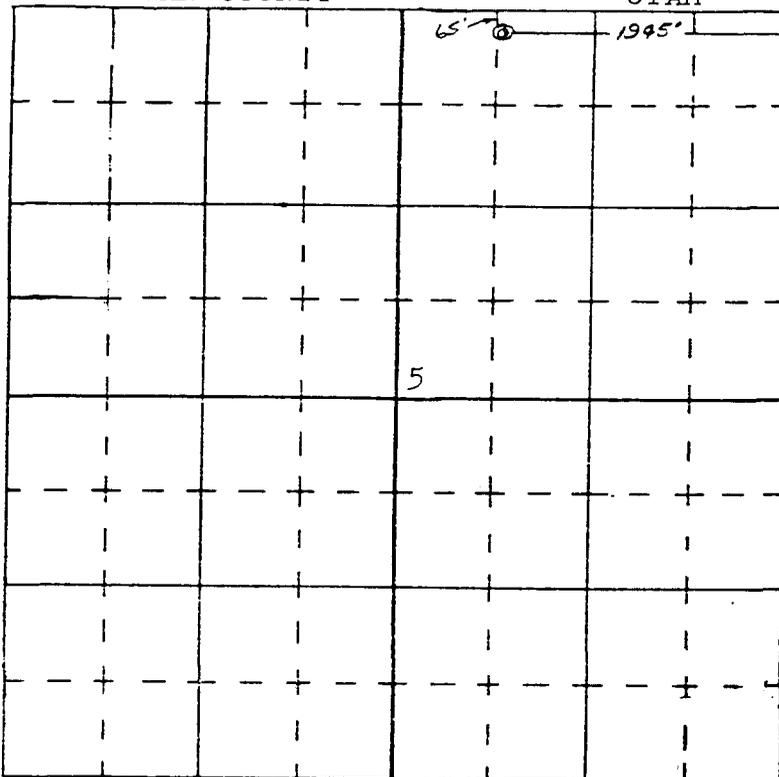
SEC. 5, T. 42S, R. 19E, S.L.M.

LOCATION 65 FEET FROM THE NORTH LINE AND  
1945 FEET FROM THE EAST LINE

ELEVATION 4287.08 Ungraded ground

SAN JUAN COUNTY

UTAH



SCALE—4 INCHES EQUALS 1 MILE

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

SEAL:

*James P. Leese*  
Registered Land Surveyor.

James P. Leese  
Utah Reg. # 1472

SURVEYED 24 October 1983

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company Louisa Hicks Well No. 1 thru 5  
Location Sec. 5 T42S - R19E Lease No. U-23761

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a weekend or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify at least (24) (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contact with the District Office is: Lynn Jackson

Office Phone: 801-254-6111 Home Phone: \_\_\_\_\_

City: Moab State: Utah

Resource Area Manager's Address and contacts are:

Address: \_\_\_\_\_

Your contact is: Brian Wood

Office Phone: 801-587-2201 Home Phone: \_\_\_\_\_

## 7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address and telephone number.
  - b. Well name and number.
  - c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
  - d. Date was placed in a producing status.
  - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.

g. If appropriate, the unit agreement name, number and participating area name.

h. If appropriate, the communitization agreement number.

13.

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SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

## ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

(1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

(2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.

(3) All disturbed areas not required for operations will be rehabilitated.

(4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.

(5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.

(6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.

(7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.

(8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.

(9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.

(10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.

(11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.

(12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

Louise Hicks  
Well No. #1-5  
Sec. 5, 42S, 19E  
San Jaun County, Utah  
Lease # U-23761

### Supplemental Stipulations

#### Construction:

1. The operator or his contractor will contact the San Jaun Resource Area Office in Monticello, Utah, (801) 587-2201, 48 hours before beginning any work on public land. BLM will be present during all construction.
2. The operator will give the dirt contractor a copy of the Surface Use Plan and any additional BLM stipulations before any work.
3. The San Juan County Road Department (801-587-2231, ext. 43)., will be contacted before county roads are used.
4. Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer(801) 637-1303 and by receiving permission from the land owner or surface managing agency to use the land containing the water source.
5. All employees working in the area will be informed by the operator that they are subject to prosecution for disturbing archaeological or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
6. Improvement to existing access will be necessary and will be limited to a total disturbed width of 16 feet. There will be no new road Construction. The road will be built to Class 3 Standards.
7. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.
8. The top 6 inches of soil material will be removed from the location and stockpiled separate from the trees on the uphill side. Topsoil along the access will be reserved in place.
9. A trash barrel will be used.
10. The reserve pit will not be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.
11. Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

Reclamation:

1. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be hauled to the Mexican Hat dump.
2. The operator or his contractor will contact the BLM office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
4. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
5. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.
6. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5 + %	Every 50 feet

7. Seed will be broadcast between Oct. 1 and Feb. 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

2lbs/acre Indian ricegrass (Cryzopsis hymenoides)  
1lb/acre Curleygrass (Hilaria jamesii)  
2lbs/acre Shadscale (Atriplex confertifolia)  
1 lb/acre Wild Sunflower (Helianthus annuus)

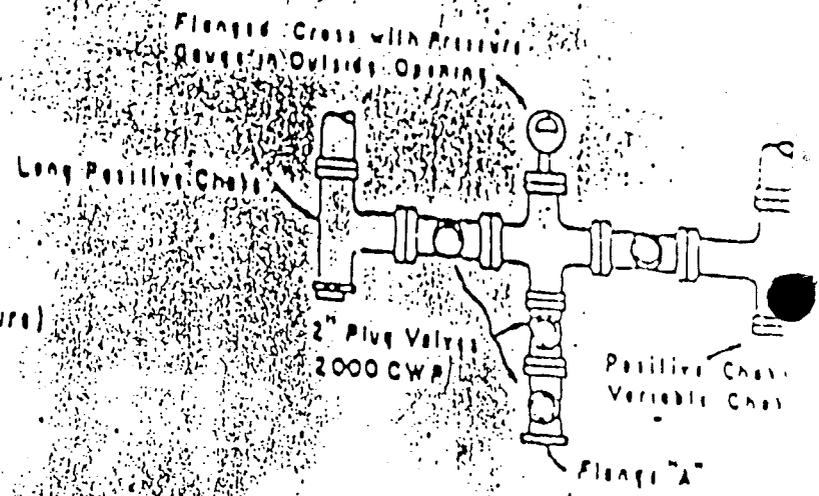
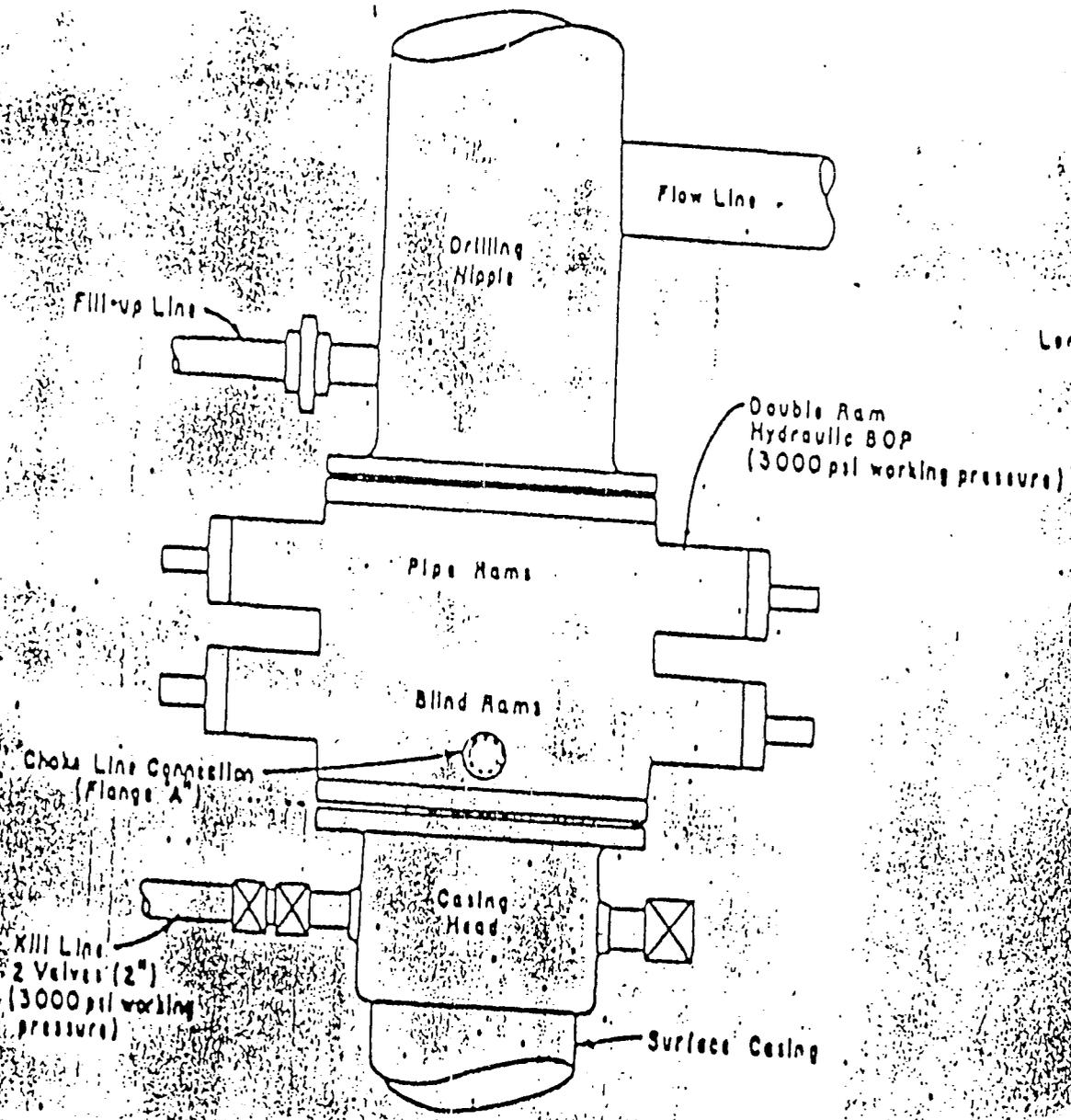
The access will be blocked to prevent vehicular access.

PRODUCTION

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.
2. All above-ground production facilities will be painted a neutral color to be approved by the BLM.

10 point Check List

1. Halicaito
2. Goodridge 200' plus-Menden Hall 350'
3. Water at 80' Oil at 200' plus
4. Plan to set 7 5/8" APIJ-55 and 5 1/2" APIJ-55 - 7 5/8" weighs 20# per foot & 5 1/2", 17# per foot - new.
5. Attached is Schematic Diagram. Will pressure test 7 5/8' casing with a mud pump to 500 PSI and on the 5 1/2" casing will circulate cement to surface - plan 1 test.
6. Drill with air.
7. Standard 1500' Drilling Rig
8. If we have a good oil show we will log & test the well.
9. No abnormal pressures anticipated.
10. November 15, 1983, 2 months.



PLAN VIEW - CHOKE MANIFOLD

Oct. 30, 1983

DEVELOPMENT PLAN FOR SURFACE USE:

Louise Hicks  
Williams-Hicks  
Sec 5, 42S, 19E  
San Jaun County, Utah  
Lease # U-23761

1. Existing roads - See Exhibit no. 1 Topography Map
2. Planned Access Roads - Roads already in existance.
3. Location of Existing Wells: - Nearest Well approximately 2000 Ft. away.
4. Location of Production - This is a proposed oil well test. A small gas jack will be installed and flow line will be laid after completion - tanks to be placed on lease after consultation with B.L.M. and U.S.G.S.
5. Location and Type of Water Supply - This is to be an air foam drilled hole. Fresh water for surface hole and cement will be hauled from the town of Mexican Hat.
6. Source of Construction Materials - None Required.
7. Handling of Waste Materials:
  - (a) Liquid waste to be retained in earthen pit.
  - (b) Burnable waste, if any, to be placed in earthen pit and burned at appropriate times.
  - (c) Non-burnable waste to be placed near burn pit and hauled off on completion.
  - (d) Latrine facilities to be furnished by contractor and waste hole filled upon completion.
8. Ancillary Facilities - None required.
9. Well Layout - See Exhibit No.
10. Plans for restoration of surface - upon completetion of drilling, fill and grade down to conform as nearly as possible to topography as per BLM specification.
11. Other information - Surface area of proposed location is rocky with very little vegetation. Little dirt work is necessary.
12. Louise Hicks, 432 west 3rd, Cortez CO 81321. Telephone 303-565-4220.

October 30, 1983

Page Two

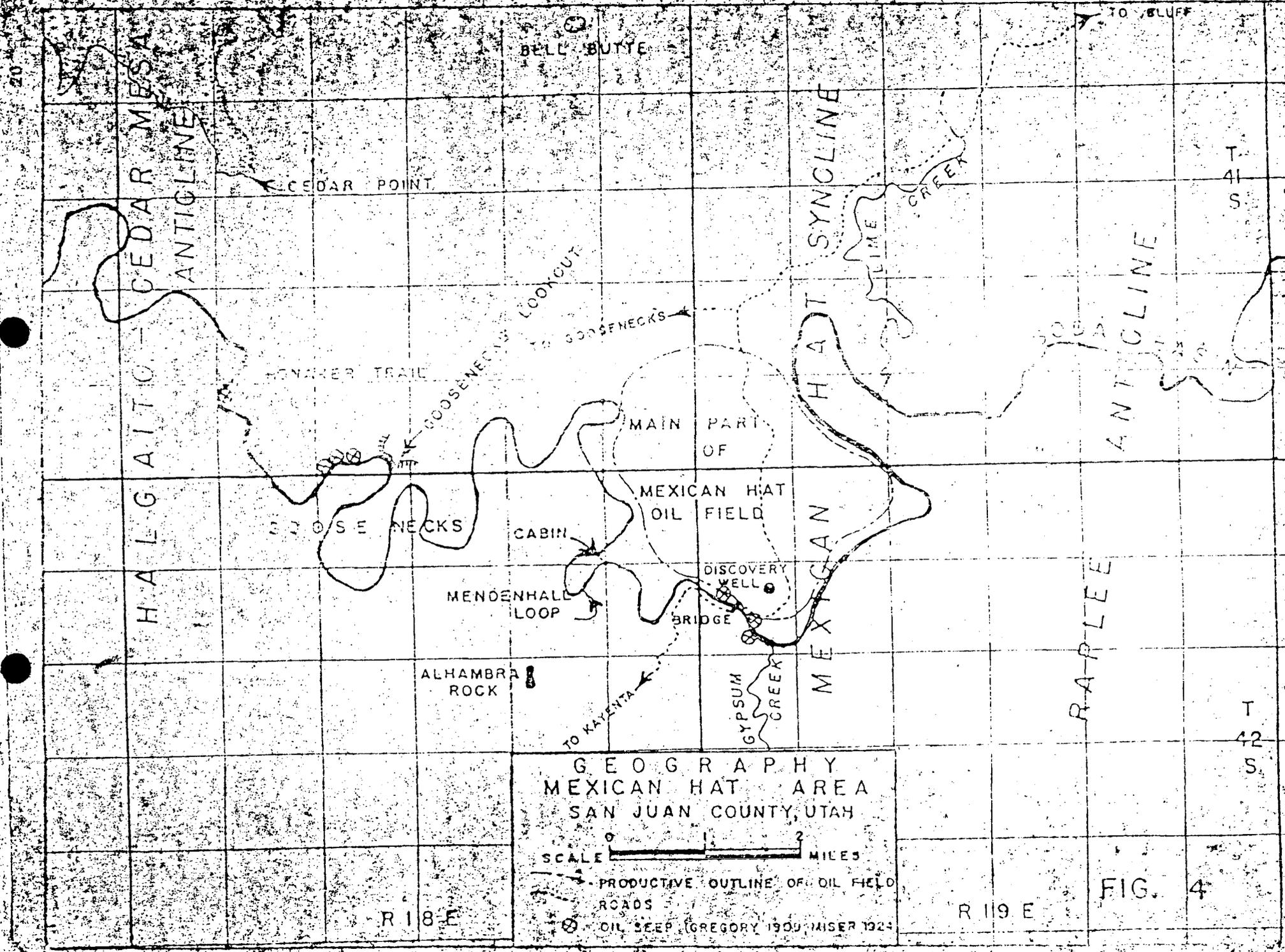
Development Plan for surface use

13. Certification:

I hereby certify that I 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 a competent contractor. Dirt work and other contract work will be in conformity with this plan and the terms and conditions under which it is approved.

*Louise Hicks*

Louise Hicks



GEOGRAPHY  
MEXICAN HAT AREA  
SAN JUAN COUNTY, UTAH

SCALE 0 1 2 MILES

— PRODUCTIVE OUTLINE OF OIL FIELD  
- - - ROADS  
⊗ OIL SEEP (GREGORY 1909; MISER 1924)

FIG. 4

CEDAR MESA ANTICLINE

MEXICAN HAT SYNCLINE

RAPLEE ANTICLINE

20

T 41 S

T 42 S

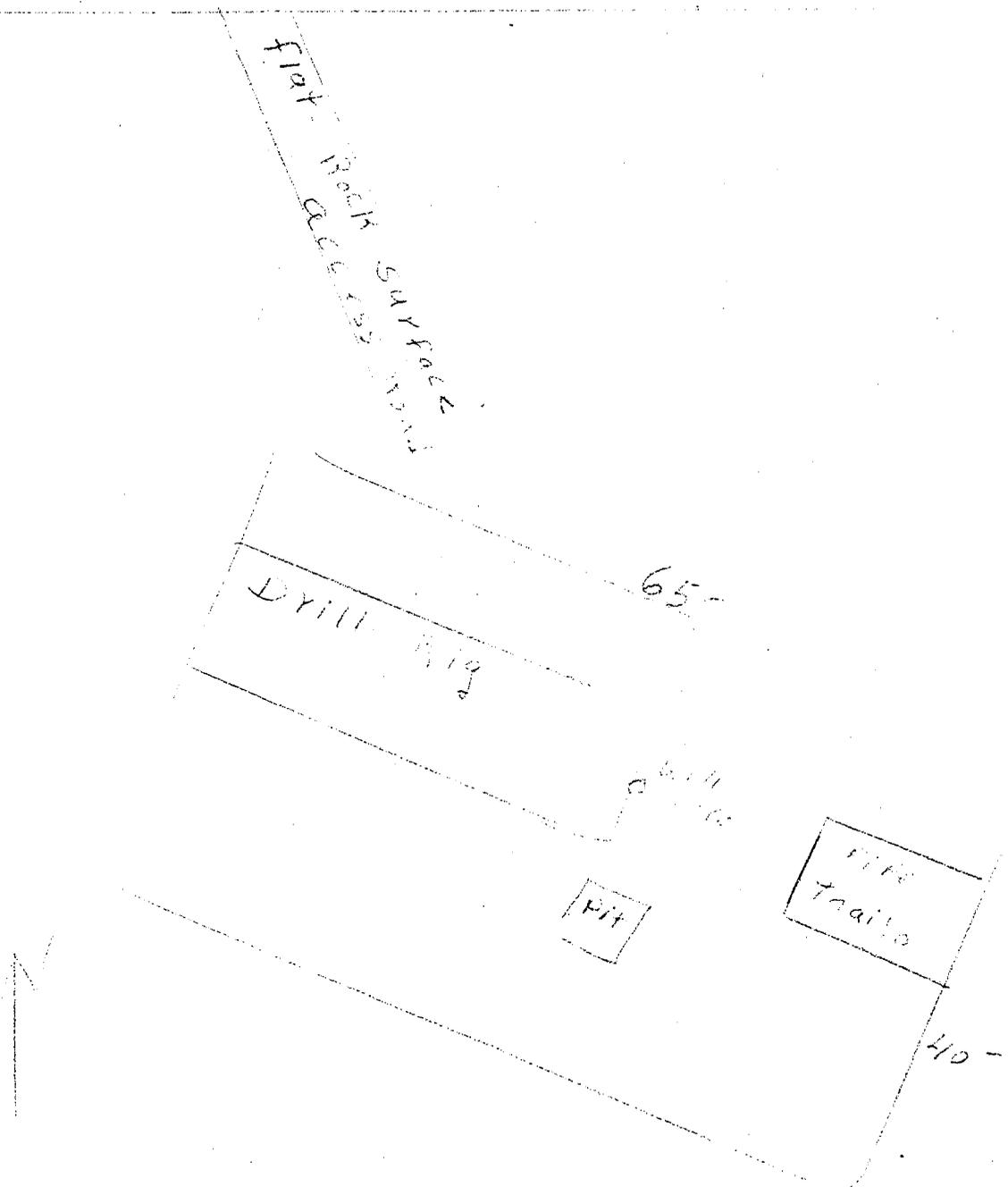
R 18 E

R 19 E

FIG. 4



Present Road



Well site layout  
Pebbles # 4 lot 5, sec 5  
U-23761

COMPLETE ARCHAEOLOGICAL



SERVICE ASSOCIATES

7 North Park Street

Cortez, Colorado 81321

(303)565-9229

Mr. Charles Cartwright  
Area Archaeologist  
San Juan Resource Area  
Bureau of Land Management  
Monticello, Utah 84535

November 3, 1983

Dear Mr. Cartwright,

Attached is a copy of the Cultural Resource Inventory report on 5 proposed oil well locations near Mexican Hat. This survey was done at the request of the leasee, Louise Hicks of Cortez, Colorado. As no prehistoric or historic cultural resources were identified within the area surveyed, Cultural Resource Clearance has been recommended.

Sincerely,

  
Laurens C. Hammack  
CASA

cc: SHPO, Salt Lake City  
BLM, State Office  
Louise Hicks, Cortez, CO. ✓

Cultural Resource Inventory

of

5 Proposed Well Sites  
Near Mexican Hat,  
San Juan County, Utah

by

Laurens C. Hammack  
Complete Archaeological Service Associates  
7 North Park  
Cortez, Colorado 81321

Prepared for

Louise Hicks  
Cortez, Colorado 81321

Submitted to

Bureau of Land Management  
San Juan Resource Area  
Monticello, Utah 84535

Federal Antiquities Permit #  
82-UT-257

November 1, 1983

## Introduction

A Cultural Resource Inventory was performed by CASA on five proposed well locations within the Mexican Hat Oil Field, San Juan County, Utah. This survey was requested by Louise Hicks, Cortez, Colorado.

The field work was undertaken on October 31, 1983 by Laurens C. Hammack of CASA. Bill Skeen of Mexican Hat located the proposed well sites and was present during the field phase of the survey. The Inventory and this report were completed to meet the requirements of applicable historic preservation laws and Executive Order 11593. All work was done under the provisions of Federal Antiquities Permit # 82-UT-257 issued to Complete Archaeological Service Associates. Brian Wood, San Juan Resource Area Office was notified by phone prior to undertaking of this investigation.

## Survey Methodolgy

All of the proposed wells were located within an area of 150 feet by 1000 feet and had been identified by a single survey stake with the well name and location inscribed on it. All were located on an eroded sandstone bench directly below and north of a large red sandstone formation typical of the area. This sandstone bench overlooks the San Juan River which is entrenched to the north and east some 150 -200 feet below. Survey procedure consisted of a series of parallel transects in a north-south direction covering the relatively level bench from the cliffs to the south to the edge of the bench on the north. An existing trail road which will be improved was also surveyed.

## Location

The proposed wells are all located within the north half of the NW $\frac{1}{4}$  of the NE $\frac{1}{4}$  of Section 5, T 42 S, R 19 E, San Juan, County, Utah (Figure 1) Exact location plats for each well are provided in Figures 2 through 6. A description of the well locations and enviornmental setting is also provided.

## Survey Results

No Cultural Resources were located within the areas surveyed for the proposed wells and access roads. Only recent use as evidenced by beer bottles and vehicle tracks are present.

## Recommendations

Cultural Resource Clearance is recommended for the five wells and access road as described in this report.

## Well Descriptions

Well Name: Pebbles No.1-5(Louise Hicks)BLM Lease # U23761

Legal Description: #1-NW $\frac{1}{4}$ , NW $\frac{1}{4}$ , NW $\frac{1}{4}$ , NE $\frac{1}{4}$  Section 5, T 42 S, R 19 E  
#2-NW $\frac{1}{4}$ , NW $\frac{1}{4}$ , NW $\frac{1}{4}$ , NE $\frac{1}{4}$  Section 5, T 42 S, R 19 E  
#3-NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , NW $\frac{1}{4}$ , NE $\frac{1}{4}$  Section 5, T 42 S, R 19 E  
#4-NW $\frac{1}{4}$ , NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , NE $\frac{1}{4}$  Section 5, T 42 S, R 19 E  
#5-NW $\frac{1}{4}$ , NE $\frac{1}{4}$ , NW $\frac{1}{4}$ , NE $\frac{1}{4}$  Section 5, T 42 S, R 19 E  
San Juan County, Utah

Measured Locations: #1-100' FNL, 2585 FEL  
#2- 65' FNL, 2345 FEL  
#3- 65' FNL, 2145 FEL  
#4- 65' FNL, 1945 FEL  
#5- 65' FNL, 1745 FEL

Elevations: #1-4319 feet  
#2-4307 feet  
#3-4294 feet  
#4-4287 feet  
#5-4283 feet

UTM: Zone 12, E 602600/N 4114250 (center of 10 acre parcel)

Map Reference: USGS Mexican Hat, Utah 1963, 15 minute

Area Surveyed: 10 acre parcel encompassing entire bench north of sandstone cliffs. Also existing trail road which leaves gravel road to Nordeen Lease to the north (approximately  $\frac{1}{4}$  mile in length)

Description: Proposed wells are situated in area of eroded sandstone rock directly north and below massive red sandstone cliffs. With a slight slope to north this area is sparsely vegetated with small bushes and grasses. Mormon Tea, snakeweed, Four-Wing salt bush, and sand Sage are the major types present. Two rounded knolls covered with large river gravels are immediately east of the survey area. The existing trail road is a set of tracks that have recently been made and dead end at the edge of the bench above the river. Main access is by existing roads which leads to Mexican Hat Campground off U.S. Highway 163.

Cultural Resources: No significant cultural resources were observed within the area surveyed for the well locations or access roads.

Recommendations: Cultural Resource Clearance is recommended.

## Management Summary

On October 31, 1983, Laurens C. Hammack of Complete Archaeological Service Associates (CASA) conducted a Cultural Resource Inventory of five proposed well sites near Mexican Hat, Utah. This survey was requested by Louise Hicks, Cortez, Colorado.

An on foot examination of the well sites, access roads and all proposed areas of disturbance yielded no prehistoric or historic cultural materials. Archaeological clearance for these five proposed wells is recommended.

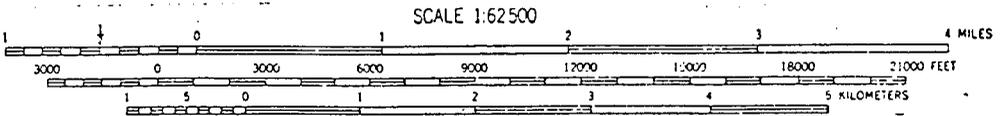
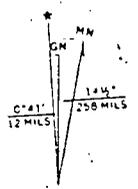
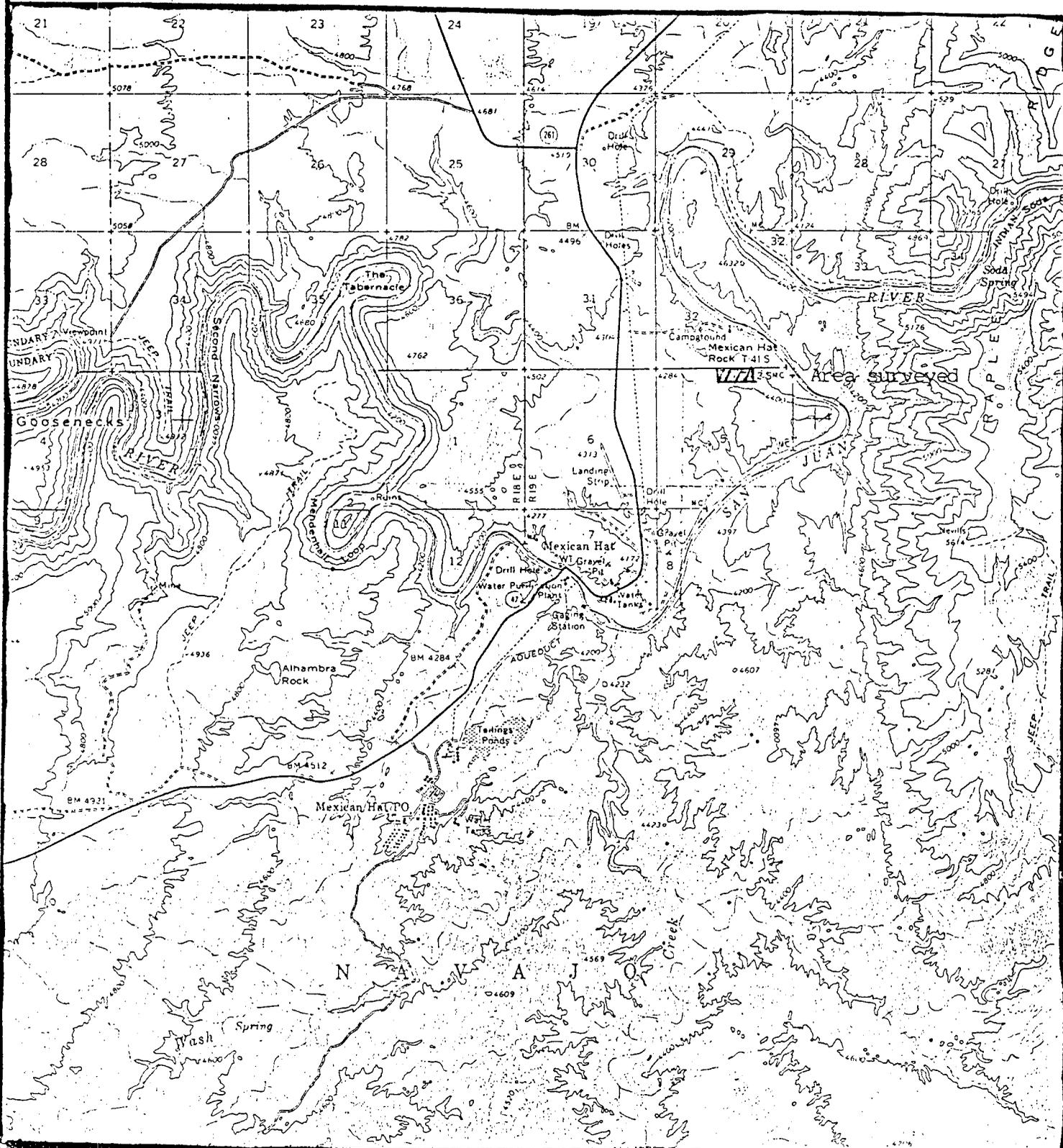


# MEXICAN HAT, UTAH

N3700—W10945/15

1963

AMS 4058 III—SERIES V797



SCALE 1:62 500  
CONTOUR INTERVAL 40 FEET  
CONTOUR INTERVAL ON RIVER SURFACE 20 FEET  
DATUM IS MEAN SEA LEVEL

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  
 Louise Hicks

3. ADDRESS OF OPERATOR  
 432 West 3rd Cortez CO 81321

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface 65 feet from the north line  
 1945 feet from the east line  
 At proposed prod. zone  
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Two and one half miles

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 75 feet

16. NO. OF ACRES IN LEASE 651.22

17. NO. OF ACRES ASSIGNED TO THIS WELL 2 1/2

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1000 feet

19. PROPOSED DEPTH 200' plus

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4287.08 Ungraded Gound

22. APPROX. DATE WORK WILL START\*  
 11-15-83

5. LEASE DESIGNATION AND SERIAL NO.  
 U-23761

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Williams-Hicks

9. WELL NO.  
 Pebbles 4

10. FIELD AND POOL, OR WILDCAT  
 Mexican Hat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 5, 42S, 19E

12. COUNTY OR PARISH 13. STATE  
 San Juan Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Surface 9"	7 5/8"	20pd.	30'	7 sacks neat
6 3/4"	5 1/2"	17pd.	200"	18 sacks neat

Drill 9" hole with spud mud to set 7 5/8" surface casing. Drill 6 3/4 hole with air to TD. If productive, run 4 1/2" casing to TD.

Estimated Depth - Goodridge 200' plus

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 Louise Hicks TITLE Lease holder DATE 11-4-83

(This space for Federal or State office use)

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

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

CONDITIONS OF APPROVAL, IF ANY:

OPERATOR LOUISE HICKS

DATE 11-8-83

WELL NAME WILLIAMS-HICKS PEBBLES #4

SEC NW NE 5 T 42 S R 19 E COUNTY SAN JUAN

43-037-30953  
API NUMBER

FED  
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

WATER ON

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

DATE: 11-8-83

BY: [Signature]

CHIEF PETROLEUM ENGINEER REVIEW:

11/8/83

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT

c-3-a 156-3 4-15-80  
CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER \_\_\_\_\_

UNIT \_\_\_\_\_

c-3-b

c-3-c

BA: \_\_\_\_\_  
DATE: \_\_\_\_\_  
OIL, GAS AND MINING  
OF OREGON DIVISION OF  
REGULATED BY THE STATE

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

VERIFY LEGAL AND SUFFICIENT DRILLING WATER

November 8, 1983

Louise Hicks  
432 West 3rd  
Cortez, Colorado 81321

RE: Well No. Williams-Hicks Pebbles #4  
65' FNL, 1945' FEL  
NWNE SEC. 5, 42S, 19E  
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 156-3 dated April 15, 1980.

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

RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

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 43-037-30953..

Sincerely,

Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Branch of Fluid Minerals  
Encl.

3162 (U-065)  
(U-23761)

Moab District  
P. O. Box 970  
Moab, Utah 84532

28 JAN 1985

Louise Hicks  
432 W. 3rd  
Cortez, CO. 81321

Re: Rescinding Application for  
Permit to Drill  
Well No. 4  
Sec. 5, T. 42 S., R. 19 E.  
San Juan County, Utah  
Lease U-23761

Gentlemen:

The Application for Permit to Drill the referenced well was approved on November 4, 1983. Since that date, no known activity has transpired at the approved location.

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.

Should you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

If you have any questions, please contact the Branch of Fluid Minerals at (801) 259-6111.

Sincerely,

**Kenneth V. Rhea**

**Acting District Manager**

cc:  
State of Utah, Division of Oil, Gas and Mining ✓  
San Juan Resource Area

bcc:  
U-942, Utah State Office

CFreudiger/cf 1/25/85



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

February 1, 1985

Ms. Louise Hicks  
432 West Third  
Cortez, Colorado 81321

Gentlemen:

Re: Well No. Williams-Hicks Pebbles #4 - Sec. 5, T. 42S., R. 19E.  
San Juan County, Utah -API #43-037-30953

In concert with action taken by the Bureau of Land Management, January 28, 1985, approval to drill the above referred to well is hereby rescinded.

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

0087S/14