

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

2. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

3. NAME OF OPERATOR  
 R. L. Jacobs Oil & Gas Company

4. ADDRESS OF OPERATOR  
 2467 Commerce St., Grand Junction, Colo. 81501

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface SE. NE. Sec. 13, T 20S, R 23E, S.L.M.  
 At proposed prod. zone 600' fr. E-line and 1640' fr. N-line

6. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 5 miles N.E. of Cisco, Utah

7. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dril. unit line, if any)  
 600'

8. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 1500'

9. ELEVATIONS (Show whether DE, RT, GR, etc.)  
 4635' grd; 4645' K.B.

10. 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"	24.00#	150 ft.	120 sks. circ to surf.

5. LEASE DESIGNATION AND SERIAL NO.  
 U-7623

6. IF INDENTIFIED, TITLE OF LEASE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 #13-2

10. NAME AND LOCATION OF LAND  
Citr Cisco Area  
Cisco Springs

11. SEC., T., R., ME. OR DE. AND SURVEY OR AREA  
 SE. NE. Sec 13-20S-23E S.L.M.

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

14. NO. OF ACRES ASSIGNED TO THIS WELL  
 160

15. ROTARY OR CABLE TOOLS  
 Rotary

16. APPROX. DATE WORK WILL START  
 March 30, 1980

It is planned to drill a well at the above location to test the gas production possibilities of the sands in the Dakota, Cedar Mt., and Morrison formations. The well will be drilled to a point which is near the top of the Entrada formation or to commercial production, whichever is at the lesser depth. The well will be drilled with rotary tools, using air for circulation. The surface casing will be set at about 150 ft., and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume thru 2" line after the pipe rams have been closed. A float valve will be used in the bottom drill collar at all times. A prognosis for the well is attached.

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: Ross Jacobs TITLE: Operator DATE: Feb. 15, 1980

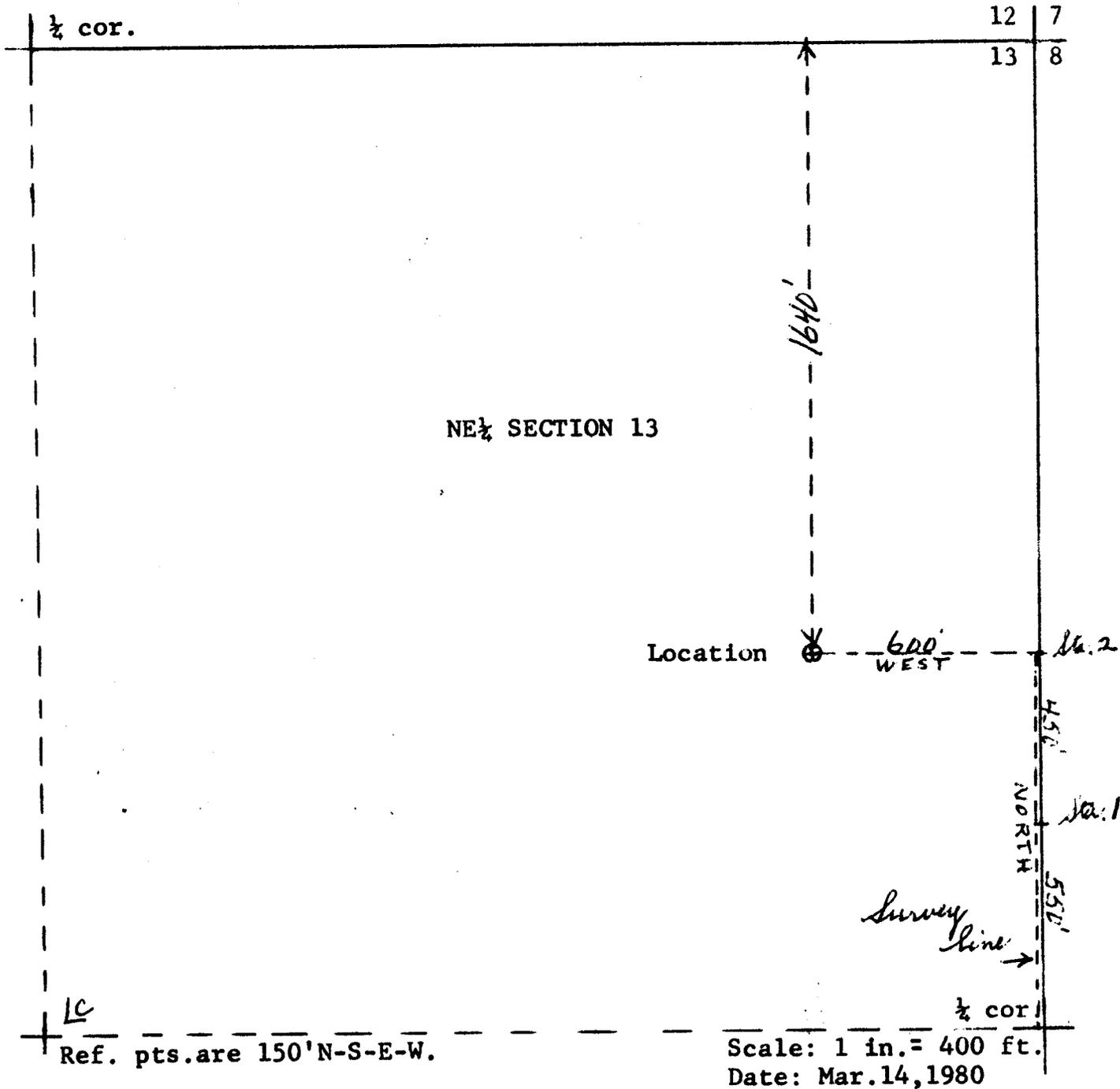
PERMIT NO. 43-019-30621 APPROVAL DATE: 3/26/80

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

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

\*See Instructions On Reverse Side  
 DATE: 3/24/80  
 BY: [Signature]

LOCATION PLAT FOR  
 JACOBS OIL & GAS COMPANY  
 FED.# 13-2 WELL  
 SE.NE.SEC.13-20S-23E  
 GRAND COUNTY, UTAH  
 (600' fr. E-line & 1640' fr. N-line)  
 Elev.: 4635' grd.; 4645' K.B.

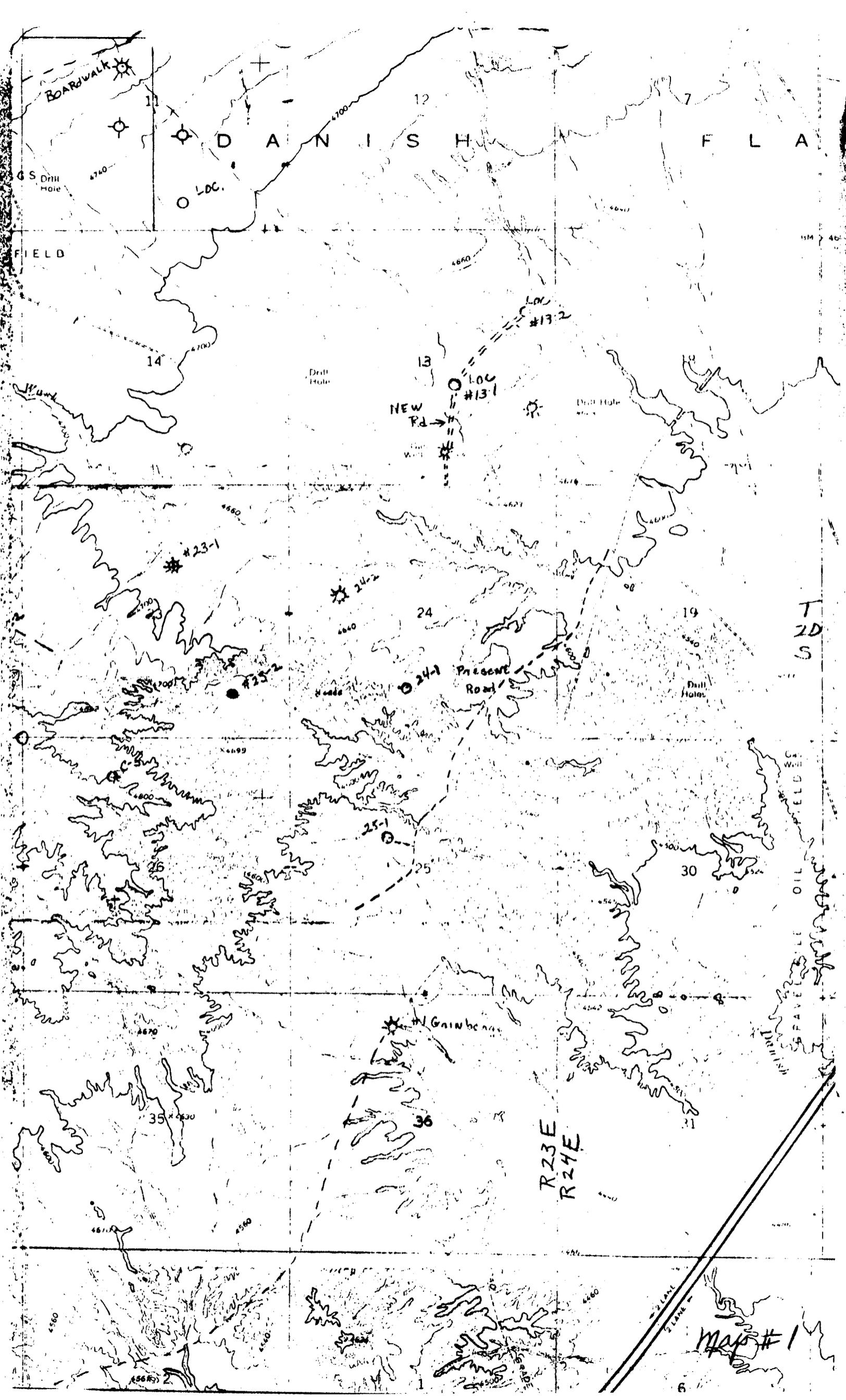


I, Sherman D. Gardner, do hereby certify that this plat was plotted from notes of a field survey made under my direct supervision, responsibility and checking on March 12, 1980.

*Sherman D. Gardner*

Registered Land Surveyor  
 State of Utah #1556

Plat No. 1



BOARDWALK

DANISH FLA

S Drill Hole

FIELD

LOC.

NEW Rd

LOC #131

Present Road

Drill Hole

Drill Hole

T 20 S

SPAVELLE OIL FIELD

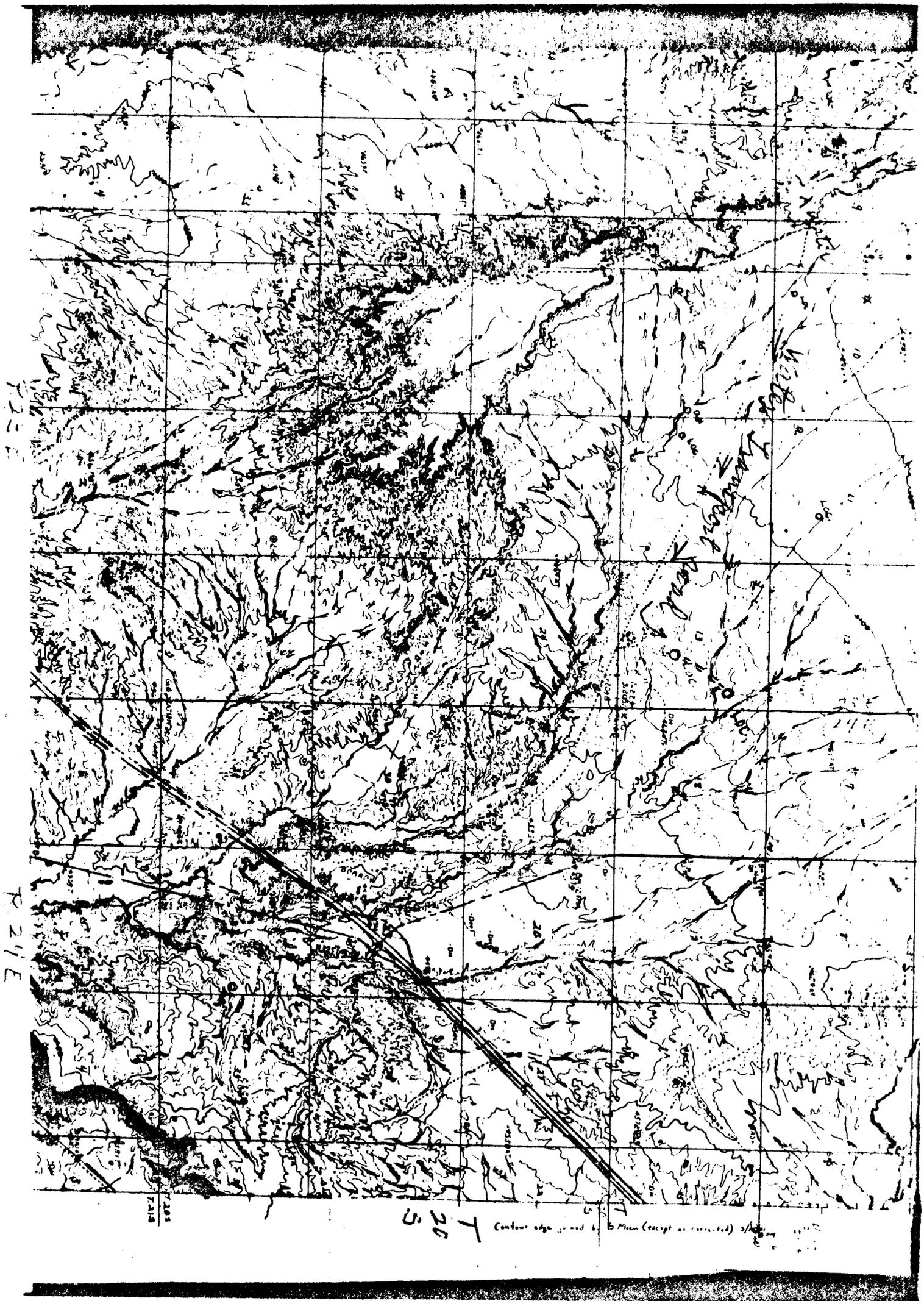
M. GAINBERRY

R23E  
R24E

1/4 MILE  
1/2 MILE

MAP # 1

6



R 21/E

R 21/E

20  
T

Contour edge ground to Mean (except as corrected) 3/10/24

Map # 13

Oil and Gas Drilling

EA No. 329-80

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

USUAL ENVIRONMENTAL ASSESSMENT

Date May 1, 1980

Operator R. L. Jacobs Company Well No. 13-2  
Location 600' FEL 1640' FNL Section 13 Township 20S Range 23E  
County Grand State Utah Field/Unit Cisco Springs  
Lease No. U-7623 Permit No. \_\_\_\_\_

Prepared by: Greg Darlington  
Environmental Scientist  
Grand Junction, Colorado

Joint Field Inspection Date: April 14, 1980

Field Inspection Participants, Titles, and Organizations:

<u>Chip Hopkins, Lyle Bergner,</u>	_____
<u>Chad Christiansen</u>	<u>Colorado-Pacific Company</u>
<u>Don Quigley</u>	<u>R. L. Jacobs Company</u>
<u>Jeff Robbins</u>	<u>Bureau of Land Management-Moab</u>
<u>Greg Darlington</u>	<u>U. S. Geological Survey-Vernal</u>
_____	_____
_____	_____

Related Environmental Documents:

BLM-Moab, Book Mountain unit resource analysis.

*Pad 200' x 250'  
Pit 25' x 100'  
access 20' x 2000'  
2.2 acres involved*

## DESCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location                    State:     Utah  
                                  County:    Grand

600 ' F E L, 1640 ' F N L, SE ¼ NE ¼

Section 13, T20S, R23E, SLM

2. Surface Ownership                    Location:     Public  
    Access Road:    Public

Status of Reclamation Agreements: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

3. Dates                                    APD Filed:                                    March 17, 1980  
    APD Technically Complete:                April 2, 1980  
    APD Administratively Complete:            March 17, 1980

4. Project Time Frame                    Starting Date:    As soon as approved.  
    Duration of drilling activities:    7 days.

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

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

None known

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

None known

7. Status of variance requests:

None known

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

1. A drill pad 200' wide x 250' long and a reserve pit 25' x 100', included on the pad, would be constructed. Approximately 2000 feet of new access road, averaging a 20' driving surface, would be constructed. 2.2 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to 20'.

A low water crossing would be required on the access road. The new access road proceeds from the nearby proposed R. L. Jacobs well 13-1 to the location which will probably be drilled just prior to this well. Don Quigley requested a 300' x 300' pad but indicated at the onsite that only about 200' x 250' would actually be used.

2. Drilling will be to a depth of 2100'.
3. Waste disposal
4. Traffic
5. Water requirements
6. Completion
7. Production
8. Transportation of hydrocarbons
9. Other

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

Environmental Considerations of the Proposed Action:

Regional Setting/Topography - Regional topography is flat desert and rolling hills grading to the talus-flanked Book Cliffs.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: Possibly valuable for coal. Coal probably subeconomic at present.

Information Source: Mineral Evaluation Report

2. Hazards:

- a. Land Stability: Location and access built on Mancos surface formation. Material is stable, provided the slopes are moderate and moisture content is low.

Information Source: Application to Drill

- b. Subsidence: Subsidence can occur with the withdrawal of oil, gas, and/or water.

Information Source: Keller, Edward A., 1976, Environmental geology, Charles E. Merrill, 488 pp.

c. Seismicity: The location is in an area of minor seismic risk.

Information Source: Geologic Atlas of the Rocky Mountain Region, 1972, "Earthquakes of Record and Interpreted Seismicity 1852-1969," Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: No high pressure zones expected. Blowout prevention systems detailed in APD.

Information Source: Application to Drill

## B. Soils

1. Soil Character: No detailed soil surveys done in area. Changes in soil fertility, horizons, slope stability, etc., cannot be predicted. Soils are considered nitrogen-poor, alkalic soils that support the salt-desert community.

Information Source: Field observation

2. Erosion/Sedimentation: Erosion/sedimentation would increase as would runoff potential. Extent of increases unpredictable without site-specific studies being done.

Information Source: Field observation

C. Air Quality - Wellsite lies in Class II attainment area. No Class I attainment areas are near, or adjacent to, proposed location.

Information Source: Field observation

D. Noise Levels - Ambient noise levels temporarily elevated. Personnel safety could be jeopardized. Wildlife would avoid area.

Information Source: Field observation

## E. Water Resources

### 1. Hydrologic Character

a. Surface Waters: Drainage is to the SW of the pad to a large nonperennial wash nearby, and then proceeds to the Colorado River about eight miles from the location.

Information Source: Field observation, Application to Drill

b. Groundwaters: Usable water may be found in lenticular sands of the Mancos to a depth of about 500'.

Information Source: Mineral Evaluation Report

## 2. Water Quality

a. Surface Waters: Drainages in the area are nonperennial. Proper construction of the location as outlined in the APD layout diagram should tend to minimize any hazards to surface water quality.

Information Source: Field observation

b. Groundwaters: Contamination to groundwaters through commingling with drilling fluids is possible. Operator proposes 150' of surface casing. Commingling of drilling fluids with potentially usable water could render groundwater unusable. Pits would be unlined.

Information Source: Application to Drill, Field observation

## F. Flora and Fauna

### 1. Endangered and Threatened Species Determination

Based on the comments received from the Bureau of Land Management on April 23, 1980, we determine that there would be no effect on endangered and threatened species and/or their critical habitat.

2. Flora: Vegetation consists of sparse sagebrush cacti, shadscale, rabbitbrush, and native grasses.

Information Source: Field observation

3. Fauna: Mule deer, antelope, small rodents, small reptiles, and various birds.

Information Source: BLM-Moab, Book Mountain unit resource analysis.

## G. Land Uses

1. General: Oil and gas operations, recreation, and grazing are major land uses. Amount and quality of land available to livestock, wildlife, and recreationists would be reduced during well life.

Information Source: G. Darlington, Environmental Scientist, USGS

2. Affected Floodplains and/or Wetlands: None

Information Source: Field observation

3. Roadless/Wilderness Area: The area is not in a roadless/wilderness area.

Information Source: Field observation; BLM-Utah, 1979, Final initial wilderness inventory, USDI, August, 50 pp.

H. Aesthetics: Operation would not blend with natural surroundings. Most likely unappealing to recreationists. Impact duration: life of well. However, recreationists are not often likely to frequent this area.

Information Source: Field observation

I. Socioeconomics: The effect of one well on local and regional population and economy would be considered minor. If major discovery, then consider: Population increase, community services taxed, resources depleted, cumulative impacts multiply, pipelines and transportation routes expand.

Information Source: G. Darlington, Environmental Scientist, USGS

J. Cultural Resources Determination: Based on the comments received from the Moab District BLM on April 23, 1980, we determine that there would be no effect on cultural resources subject to the location being in Danish Flat Cultural Mitigation Study Area; therefore, adequate archeological surveys exist in the area for the proposed action.

Information Source: BLM Stipulations letter dated April 22, 1980, for this well. (See attachments)

K. Adequacy of Restoration Plans: Rehabilitation plan judged as adequate. Problems hampering restoration: a) Area subject to short growing season; b) limited precipitation during growing season; and c) generally, very little topsoil which has limited organic matter and is low in fertility.

Information Source: Field observation

#### Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

#### Adverse Environmental Effects:

1. If approved as proposed:
  - a. About 2.2 acres of vegetation would be removed, increasing and accelerating erosion potential.
  - b. Pollution of groundwater systems would occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
  - c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
  - d. The potential for fires, leaks, spills of gas and oil or water exists.

- e. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

Recommended Approval Conditions:

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

1. See attached BLM Stipulations.

Controversial Issues and Conservation Division Response: None are involved at the present time.

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

Determination

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

*W.P. Martins*

FOR

E. W. GUYNN  
DISTRICT ENGINEER

**MAY 06 1980**

District Engineer  
U. S. Geological Survey  
Conservation Division  
Oil & Gas Operations  
Salt Lake City District

Date



RL Jacobs 13-2  
Sec 13, T 20S, R 23E.  
4/14/1980

STANDARD STIPULATIONS FOR OIL & GAS EXPLORATION

1. Contact this office at least 24 hours prior to beginning construction of access road and pad.
2. Stockpile the surface 12 inches of topsoil in a wind-row as set forth on 9-2 and Plat No. 3 of the NTL-6 report.
3. The upper banks (uphill side) of all cuts will be rounded during construction of the access road and pad.
4. Notify the BLM District Archaeologist if cultural material from subsurface deposits is exposed during the operation.
5. The trash pit will be at least six feet deep and fenced with fine mesh wire during drilling operations.
6. The "blooey" line will be centered and directed into the pit.
7. A low water crossing in accordance with BLM standards will be used on the access road to the pad.
8. If production is obtained, additional surface disturbing activities are not approved at this time.
9. Prior to drilling, a woven wire (sheep) fence will be installed around three sides of the reserve pit.
10. Rehabilitation of the site and access road will be accomplished in accordance with the enclosed restoration procedures.

SEED MIXTURE

lbs/ac.

Grasses

Oryzopsis hymenoides	Indian rice grass	2
Hilaria jamesii	Galleta	1
Sporobolus cryptandrus	Sandrop seed	1

Forbs

Sphaeralcea sp.	Globemallow	.5
-----------------	-------------	----

Shrub

Atriplex canescens	Fourwing saltbush	.5
Cerotoides lanata	Winterfat	<u>1</u>

6

## RECLAMATION PROCEDURES IN GRAND RESOURCE AREA

1. Disk or rip pads and access roads.
  - a. Overlap passes in order to insure complete treatment.
2. Contour pads and access roads.
  - a. Lay berms into centers.
  - b. Use cut material for fill areas.
  - c. Lay stockpiled surface soil over top of pads and spread evenly.
  - d. On highly erosive soils, it may be more beneficial to grade slopes to reduce steepness.
  - e. Do not smooth pads out, leave a roughened surface. On steeper slopes and slopes with clayey soils scarify or serrate the ground in order to increase water infiltration and reduce erosion.
3. Water bar roads where required by this office.

* 2%	Grade	-	200 ft. intervals
2-4%	Grade	-	100 ft. intervals
4-5%	Grade	-	75 ft. intervals
5%	Grade	-	50 ft. intervals

\* Actual spacing may vary according to soil stability. Lighter textured soils will require more frequent water bars. When natural drainage ways are present, water bars are to be constructed to make maximum use of them. Plan operations so that natural drainage ways do not become blocked.
4. Seed roads and pads in the fall (Oct. through mid-Dec.).

DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH  
SUBJECT: APD MINERAL EVALUATION REPORT

Slenn

LEASE NO. U 7623

OPERATOR: R.L. Jacobs Oil & Gas Co. WELL NO. 13-2

LOCATION: NE $\frac{1}{4}$  SE $\frac{1}{4}$  NE $\frac{1}{4}$  sec. 13, T. 20 S., R. 23 E., S.L.M.  
Grand County, Utah

Stratigraphy: Operator logs appear reasonable

Formation	Surface
Mancos	
Dakota	1215
Cedar mtn.	1315
Morrison	1405
Entrada	2015
T.D.	2100

Fresh Water:

Useable water may be found in lenticular sands of the Mancos to a depth of ~ 500 ft.

Leasable Minerals:

Prospectively valuable land for Coal  
(Coal is in thin lenticular beds in the Dakota & is currently uncommercial).

Additional Logs Needed: Adequate

Potential Geologic Hazards: None Anticipated

References and Remarks:

Signature: Gregory W. Wood

Date: 3 - 29 - 80

07 APR REC'D

PROGNOSIS FOR  
R. L. JACOBS OIL & GAS CO.  
FEDERAL #13-2 WELL  
GRAND COUNTY, UTAH

Location: SE . NE. Sec. 13, T 20S, R 23E, S.L.M., Grand County, Utah  
(600' from E-line and 1640' from N-line)

Elevations: 4635' Grd; 4645' K.B.

Surface Casing: 150' of 8 5/8", 24.00#, K-55, R-3 casing set and cemented with 120 sks cement w/3% CaCl; with returns to surface. The surface hole (12 1/4") will be drilled to 150 ft. K.B. and will be no more than 1° deviation.

Expected Formation Tops:

<u>Formation</u>	<u>Depth to Top</u>	<u>Thickness</u>	<u>Datum</u>
Mancos	Surface	1215'	4645' K.B.
Dakota *	1215'	100'	3430'
Cedar Mountain *	1315'	90'	3330'
Morrison (Brushy Basin) *	1405'	280'	3240'
(Salt Wash) *	1685'	250'	2960'
Curtis-Summerville	1935'	80'	2710'
Entrada	2015'	—	2630'
Total Depth	2100'		

\*Formations with possible hydrocarbons in paying amounts

1. It is planned to drill a 12 1/4" surface hole for the surface casing down to a depth of about 150 ft. and set 8 5/8" casing with approximately 120 sks of cement with returns to the surface. A casing head or flange will be mounted on top of the surface casing and a blowout preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blowout preventer. A blewie line, at least 125' long, will then be attached to the rotating head and extended into the reserve pit. B.O.P. will be tested to 2000 lbs. before drilling below surface casing.
2. A 7 7/8" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at 500' and

below. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon reservoir. No toxic gases have ever been encountered in this area and none are expected.

3. Samples of the cuttings will begin at 800'. 30-ft. samples will be taken from 800' to 1150', and then 10-ft. samples will be taken from 1150' to total depth.
4. It is planned to drill the well to a depth which is approximately 100 feet below the top of the Entrada formation unless good commercial flow of gas is obtained above this depth.
5. If a high gas flow (several million cubic feet) and/or when the total depth of the well is reached, electric logs will be run. Prior to running logs, high viscosity mud (not less than 100 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs. A dual-induction-laterolog will be run from bottom to the top of the hole, and a gamma-density and compensated neutron porosity log will be run from the bottom to a point which is 150' above the top of the Dakota formation.
6. If good production (over 750 MCF) is obtained, 4½" O.D., 10.50#, K-55, R-3 new casing will be run and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will then be perforated, 2 3/8" O.D. tubing run, and completed conventionally.
7. It is anticipated that the drilling of the well will require less than one week.

*W. Don Quigley*

W. Don Quigley  
Consultant  
Suite 440  
57 West South Temple  
Salt Lake City, Utah 84101

## N T L - 6 P L A N R E P O R T

For

Well Name: Jacobs - Federal #13-2Location: SE, NE, Sec, 13, T 20S, R 23E, S.L.M., Grand County, Utah1. Existing Roads: (See attached Maps)

## A. Well Location: (See Plat #1)

Reference Stakes: 150' N-S-E-WPerimeter Stakes: As above. Stakes outline maximum perimeter of well pad.

## B. Route and Distance to Well Site From Reference Point: (See att. maps)

From the E. Cisco Exit on I-70, the site is 3 miles along secondary and unimproved roads on Cisco Mesa.

## C. Access Roads (Identify secondary roads to be used): (See att. maps)

The Cisco Mesa road going NW, from the E. Cisco Exit is used for the 2½ miles. At a point past where the old abandoned railroad bed crosses this road, an old road (now used) takes off to the northeast. This road is followed for a distance of approximately ¼ mile. Then a new road (which is flagged) will be built to the north for a distance of about ½ mile to another well site, (#13-1). This road will be extended for about 2000 ft. to the location of #13-2 well.D. Roads Within 3 mile Radius: (See att. maps) The main Cisco Mesa road(first 2 miles) is a county road, is partially gravelled, graded, crowned, and ditched. All the other roads around the well site are unimproved and are flat with no drainage provisions. The last 2/3 mile of road will be a new road which will be graded & ditched. It is on Mancos soil & topography and is on shale and silt in the low areas and on Surface type and conditions: gravel across the benches.

## E. Roads Within 1 mile Radius: (See att. maps) See 1-D Above.

The roads within 1-mile of the site are mostly dozed trails (old seis or well trails) dozed across natural topography and soil. The road base is Mancos shale and soil with some gravel and conglomerate on the bench areas. They are normally about 10' wide.F. Plans for Road Improvement & Maintenance: The last 2/3 mile of road will be widened to a maximum disturbed width of 20' and graded, crowned in the center and ditched on the sides. No washes or steep grades are

F. involved and there should be no problem with drainage.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. Planned Access Roads: (See att. maps) About 2000' of new road will be built across fairly level Mancos terrain by blading a road with a bulldozer and crowned and ditched with a motor grader.

(1) Width: Maximum disturbed width will be 20 ft.

(2) Maximum Grades: 3% or less

(3) Turnouts: None needed

(4) Drainage Design: None needed

(5) Location and Size of Culverts, Cuts, and Fills: None needed. A main gas pipeline will be crossed with this road and will be covered sufficiently with dirt to insure its protection. This will be coordinated with Northwest Pipeline.

(6) Surfacing Material: The road is across Mancos shale and soil which is composed of gravel and silt. No other material will be used.

(7) Gates, Cattleguards, or Fence Cuts: None

(8) All new roads have been flagged as required.

3. Location of Existing Wells: (See Map No. 2)

(1) Water Wells: None

(2) Abandoned Wells: See Map #2

(3) Temporarily Abandoned Wells: None

(4) Disposal Wells: None

(5) Drilling Wells: None at present

(6) Producing Wells: Several - See Map #2

(7) Shut-in Wells: Three

(8) Injection Wells: None

(9) Monitoring or Observation Wells: None

4. Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

(1): Tank Batteries: (Size) One 1000 bbl tank on the I.T. #2 well site (See Map #2).

(2) Production Facilities: Operator has 3 gas wells in Section 13 (See Map #2): I.T. #2; I.T. #8; and Jacobs #1.

(3) Oil gathering lines: None

(4) Gas gathering lines: Operator has 3½" gas line laid from Cisco Mesa rd. to the Jacobs #1 well (1600').

(5) Injection lines: None

(6) Disposal lines: None

(7) Are lines buried? No

B. If new facilities are contemplated, in the event of production, show: (These facilities depend on the outcome of the proposed well and are really unknown at this time.) Show a general proposed plan. (See Plat No. 2)

(1) Are any facilities planned off well pad? None at this time. If the well is a successful gas well, a gas gathering line (3½") will have to be laid and connected to the main gas line; but this will be covered by a separate proposed plan, accompanied with maps, surveys, etc., at a later date.

(2) Give dimensions of facilities: See Plat #2

(3) Construction methods and materials: Location will be levelled for production equipment. Tank batteries will be placed on a 3" gravel pad and surrounded with an 24" dike (15' from tanks). Separators and heater-treaters will be placed on gravel pads or cement bases. Pump jacks will be on cement platforms or on raised dirt and gravel mounds. All pipe lines on the pad will be buried.

(4) Protective measures for livestock and wildlife: All open pits will be fenced with woven wire (sheep) fence (40") and pump jacks or rotating machinery will have guards to prevent danger by moving parts.

C. Plan for rehabilitation of disturbed areas no longer needed after drilling operations are completed: Well site will be cleaned, levelled and graded for production equipment; pits folded-in or fenced with

C. woven wire, before rig is moved if pit contains fluid. The other work will be done within 30 days after well is completed. While production ensues, previous areas of well pad not needed for production operations will be restored as in Item 10 below.

5. Location & Type of Water Supply: (See att. maps)

A. Type of Water Supply: Cisco Springs (natural flow) located in Section 9 of T 20S, R 23E. (See Map #3)

B. Method of Transporting Water: The water will be hauled from the spring to the well site by truck along the Cisco Mesa road. This will be approximately 5 miles from the spring to the well site. See Map #3.

C. Is Water Well Planned? No  
If so, describe location, depth and formation: \_\_\_\_\_

6. Source of Construction Materials:

A. See attached map and describe: None will probably be required, since the well will be drilled during the fair weather season. If the well is successful, the last 1/2 mile of road will be improved by ditching, and crowning to provide easy access during bad weather. Some places might also require some gravel.

B. Identify if Federal, Indian, or Fee Land: Unknown at this time.

C. Describe Material: (Where from and how used) The source, amount, type of material, and permit will have to be obtained at a later date, if required.

D. See item 1-C and 2 above.

7. Waste Disposal:

The cuttings will be blown into the reserve pit, and the blew

(1) Cuttings: line will be directed into the cut portion of the pit.

(2) Drilling Fluids: In mud tanks; excess put into reserve pit.

(3) Producing Fluids (oil or water) Oil in tanks; water in reserve pit.

(4) Human Waste: Toilet with pit (4' deep) with lime for odor and sanitation control. Will be covered with soil (3' deep) at end of operation.

(prior to commencement of drilling)

- (5) Garbage & Other Waste: (Burn pit will be adequately fenced with chicken wire to prevent scattering of debris by wind) Into burn pit, (4'X6'X6' deep) and burned periodically. The burn pit will be approx. 125' from well head. Reserve pit will also be fenced on 3 sides
- (6) Clean-up: (See item 10 below) All garbage and unburned debris will be buried by at least 3' of cover after the drilling and completion operations are finished. The unused material and all equipment will be removed from the site and taken to supply yards or to the next drill site, as soon as the well is completed.

8. Airstrips and/or Camp Sites (Describe): None needed.

9. Well Site Layout: (See Plat No. 3)

(1) Describe cuts or fills: No cuts or fills other than for pits.

(2) Describe pits, living facilities, soil stockpiles: Reserve pit is long and narrow as shown, and will be placed on the east side. Excavated material from the pit will be piled at the east end of pit. Top soil, mostly gravel (12" deep), will be piled at the north and south sides of the site. Two or three trailer houses will be provided for the supervisor personnel.

(3) Rig Orientation, Pipe rack, Access Road Entrance, etc.: (See Plat #3)

(4) Are Pits Lined? Unlined with 4-ft. banks.

10. Plans For Restoration:

A. If Well is completed: Site will be cleaned, debris removed, pits folded-in or fenced with woven wire if full of fluid, and site levelled for production equipment. All unused portions will be contoured, graded, scarred, and seeded with wheat grass, or acceptable seed mix authorized by BLM.

B. If Well is abandoned:

(1) Clean-up, levelling, folding pits-in, contouring: These items will be done as soon as possible. Clean-up will be accomplished at

B. (1) time rig is removed. The rest of the work should be done within 10 to 60 days after well is completed.

(2) Seeding location and access road: Site will be seeded with crested wheat grass, or with a seed mix suggested by BLM by hand broadcasting and then scarred with a dozer or spike-toothed drag. The access road, if no longer needed, will be erased, contoured, seeded, and scarred as above. Water bars will be placed where needed.

(3) Will pits be fenced or covered? If there is any amount of fluid in the reserve pit, it will be fenced with woven wire on the 4th side before rig is released & remain fenced until fluid dries up and pit is reclaimed.  
(4) Is there any oil in reserve pit?

If so, describe disposal: Should not be any great amount. If there is a large amount, it will be removed prior to covering pit.

(5) When will restoration work be done? As soon as possible. Within 60 days after equipment is removed if weather and availability of clean up equipment permit and will be completed within 10 days thereafter.

11. Description of Land Surface:

(1) Topography & Surface Vegetation: Location is on fairly level ground in a wide flat area and is on typical Mancos soil and gravel. Sparse sage brush, shad scale, grass and tumble weed are present.

(2) Other Surface Activities & Ownership: The land around the drill site is federal land with minerals owned by the public and surface owned by BLM. Jacobs Oil & Gas Co. has an oil and gas lease (U-7625) on most of the E½ of Sec. 13. The area does have some grazing by sheep. There are no power lines or sites, irrigation ditches, or cultivation in the area.

(3) Describe other dwellings, archaeological, historical, or cultural sites: There are no known building, archaeological, historical or cultural sites in the area. An abandoned railroad bed is located in Sec. 18 and 19 to the east and south of the proposed well site. Other oil and gas well drilling and production are present in the general area.

12. Operators Representative: (Address & Phone number)

W. Don Quigley, Suite 440, 57 W. So. Temple, Salt Lake City, Utah 84101  
801-359-3575

13. Certification:

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

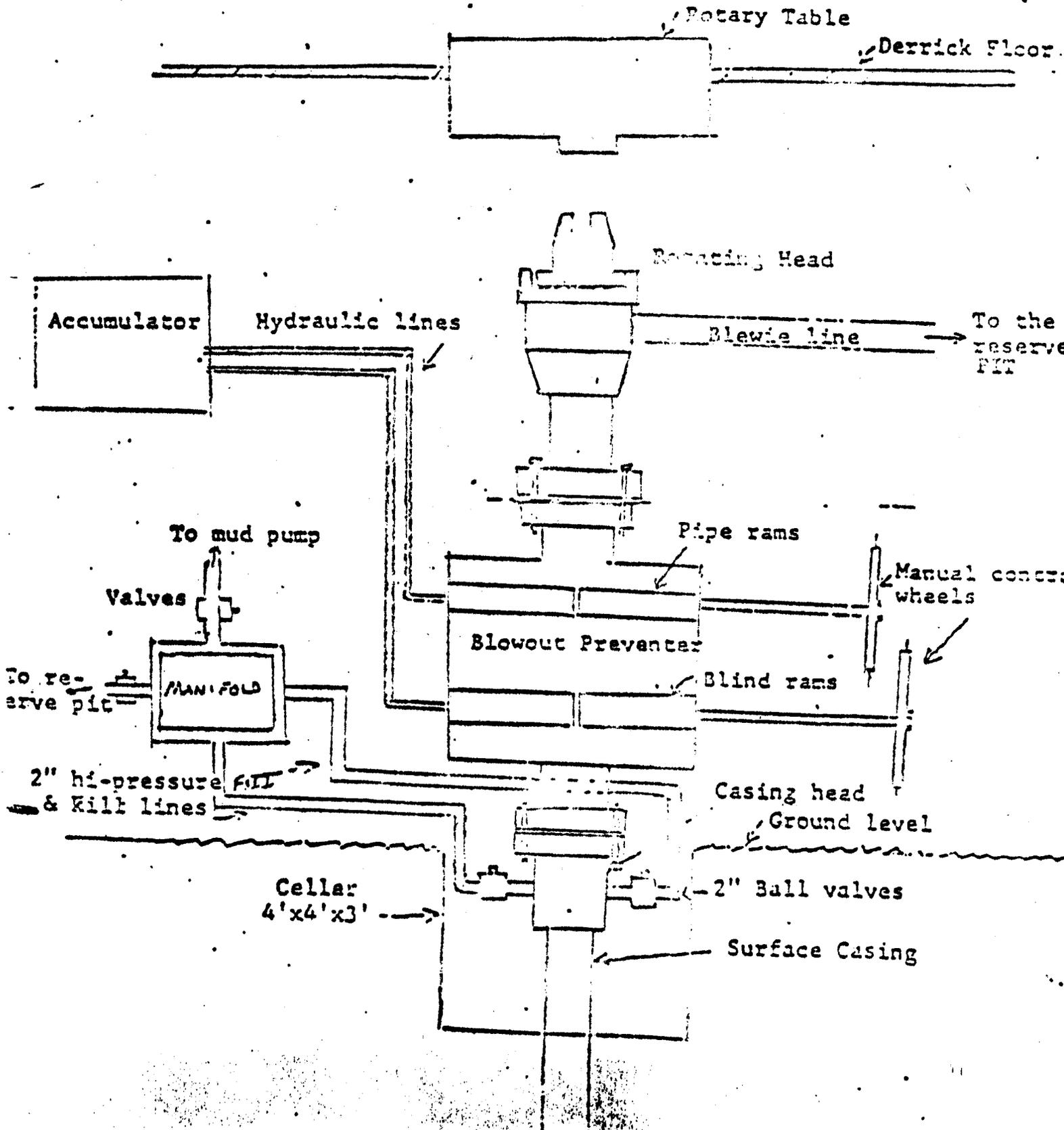
Date: March 14, 1980

Name: *H. New Quigley*

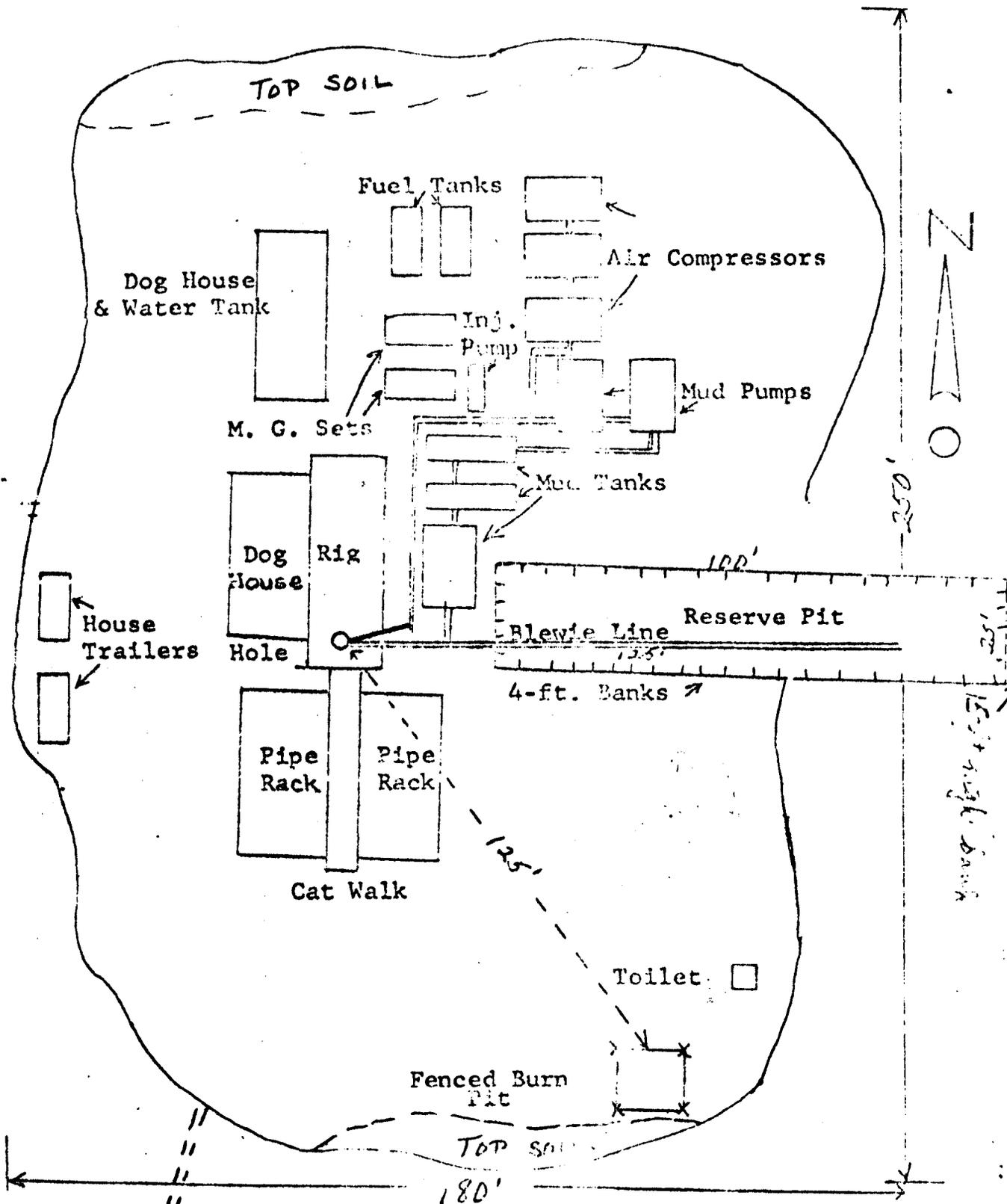
Title: Geological Consultant

SCHEMATIC DIAGRAM OF  
CONTROL EQUIPMENT FOR THE

R. L. JACOBS OIL & GAS CO.  
FEDERAL #13-2 WELL  
SE. NE. SEC. 13-208-23E.



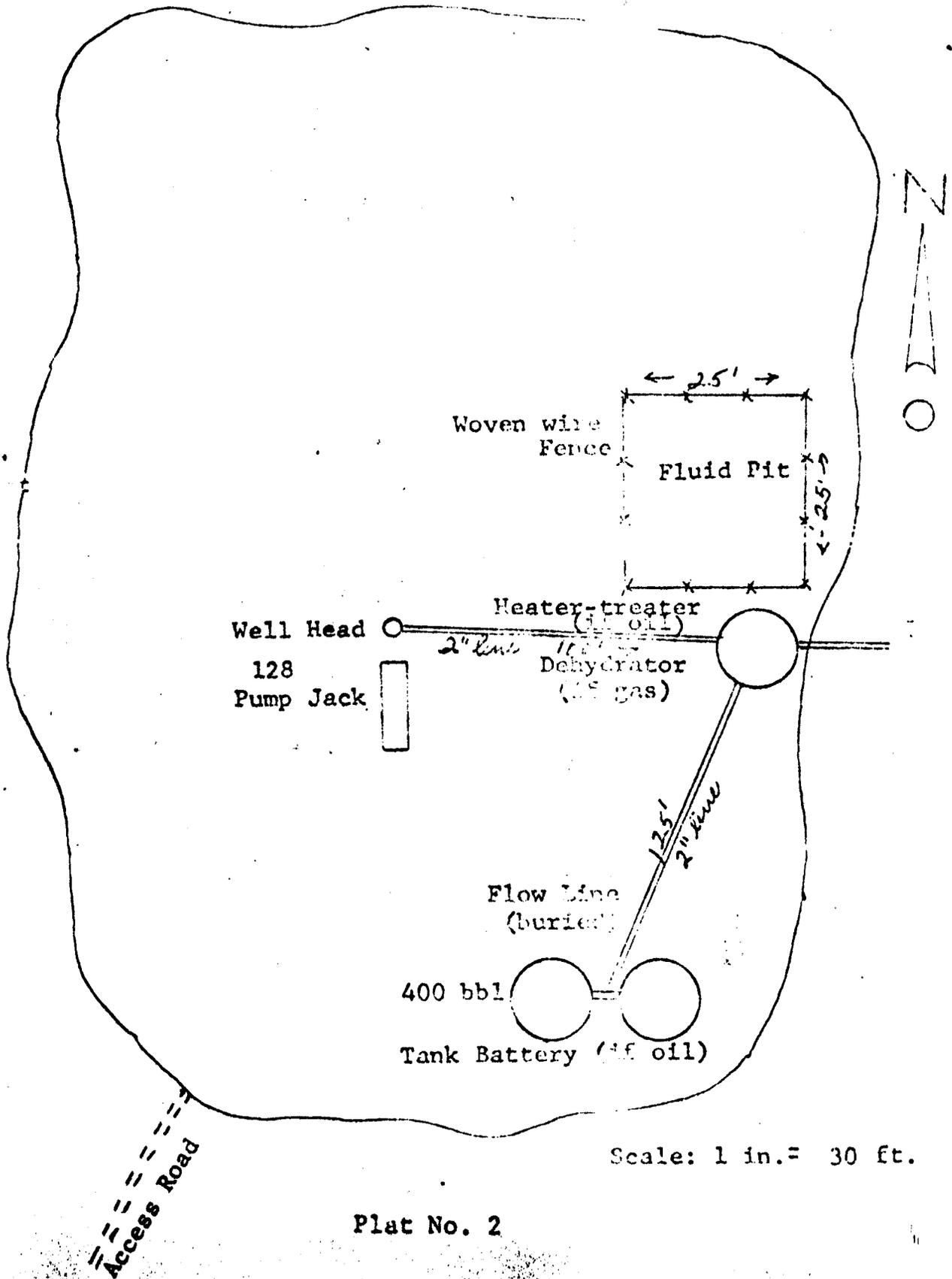
LOCATION PLAN FOR  
 R. L. JACOBS OIL & GAS CO.  
 FEDERAL #13-2 WELL  
 SE. NE. SEC. 13-208-23E.



Scale: 1 in. = approx. 30 ft.

Plat No. 3.

PLAN FOR PRODUCTION EQUIPMENT  
R. L. JACOBS OIL & GAS CO.  
FEDERAL #13-2 WELL  
SE. NE. SEC. 13-20S-23E



Plat No. 2

WELL CONTROL EQUIPMENT FOR  
R. L. JACOBS OIL & GAS CO.  
FEDERAL #13-2 WELL  
SE. NE. SEC. 13-20S-23E.  
GRAND COUNTY, UTAH

The following control equipment is planned for the above designated well: (See attached diagram)

1. Surface Casing:

- A. Hole size for surface casing is 12 $\frac{1}{2}$ ".
- B. Setting depth for surface casing is approx. 200 ft.
- C. Casing specs. are: 8 5/8" O.D., X-55, 24.00#, 8 rd. thread, R-3 new or used.
- D. Anticipated pressure at setting depth is approx. 20 lbs.
- E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 120 sks of cement with returns to the surface.
- F. Top of the casing will be near ground level.

2. Casing Head:

Flange size: 10", A.P.I. Pressure rating: 2000# W.P., Series 600; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2", 2000# W.P. ball or plug valves. Casing head and valves set above ground level. (A flange only may be used on top of the casing, if the B.O.P. is equipped with 2" outlets below the blind rams.)

3. Intermediate Casing:

None

4. Blowout Preventors:

- A. Double rams; hydraulic; one set of blind rams; one set of rams for 3 $\frac{1}{2}$ " or 4" drill pipe; 10" flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000# p.s.i. A hydraulically operated by-drill may be used in place of the above B.O.P., if equipped with 2" outlets below the rams. B.O.P. will be tested for leaks at 2000# p.s.i. prior to drilling below surface casing.
- B. Rotating Head: Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3 $\frac{1}{2}$ " or 4" rubber for,

2000# W.P.; need not have hydril assembly on bottom, if a separate hydril or B.O.P. is used.

- C. **Fill and Kill Lines:** The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head and thru a manifold to permit ready switching from the fill to kill lines.

5. Auxillary Equipment:

A float valve is to be used in the bottom drill collar at all times. A safety valve that can be used in the drill pipe will be kept within easy reach on the rig floor at all times.

6. Anticipated Pressures:

The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 2000' to 3000' in the area have been measured at about 600# to 800# maximum. No toxic gases have ever been encountered in the area and none are anticipated.

7. Drilling Fluids:

Air will be used to drill the subject well until water is encountered, then air-soap-water mist will be used to drill the well deeper. In case of excessive caving problems, it may be necessary to convert to mud.

8. Production Casing:

- A. Hole size for production casing will be . . .  
B. Approx. setting depth will be about 3500'.  
C. Casing Specs. are: 4½" O.D.; K-55; 10.50#; 8-rd thread; R-3, new.  
D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will be perforated, 2 3/8" O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation. In this case the procedure outlined below will be used.  
E. Casing will be run with about six centralizers and a cement basket with DV tool set above the production zone.

There will be sufficient casing to extend thru the production zone below the basket with a blind guide shoe on the bottom. The casing will be cemented above the packer with about 85 sks of cement (sufficient to cement thru the Dakota formation). The cement will be allowed to cure at least 48 hrs. The plug can then be drilled out and the casing perforated below the DV tool. Two inch tubing will be run and secured in the tubing head prior to perforating.

*H. Don Grigley*

Glenn

3-205-23E

Memorandum

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

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

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. U-7623 Well No 13-2

1. The location appears potentially valuable for:

- strip mining\*
- underground mining\*\*
- has no known potential.

2. The proposed area is

- under a Federal lease for \_\_\_\_\_ under the jurisdiction of this office.
- not under a Federal lease under the jurisdiction of this office.
- Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

\*If location has strip mining potential:

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

\*\*If location has underground mining potential:

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

Signed Allen J. Jones

10 APR RECD

\*\* FILE NOTATIONS \*\*

DATE: March 19, 1980

Operator: R. L. Jacobs Oil & Gas

Well No: Federal # 13-2

Location: Sec. 13 T. 20S R. 23E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-019-30621

CHECKED BY:

Geological Engineer: \_\_\_\_\_  
\_\_\_\_\_

Petroleum Engineer: M.S. Munder 3/24/80

Director: \_\_\_\_\_

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 102-16B 11/15/79

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   
btm

#3

hl  
PI

Utah State

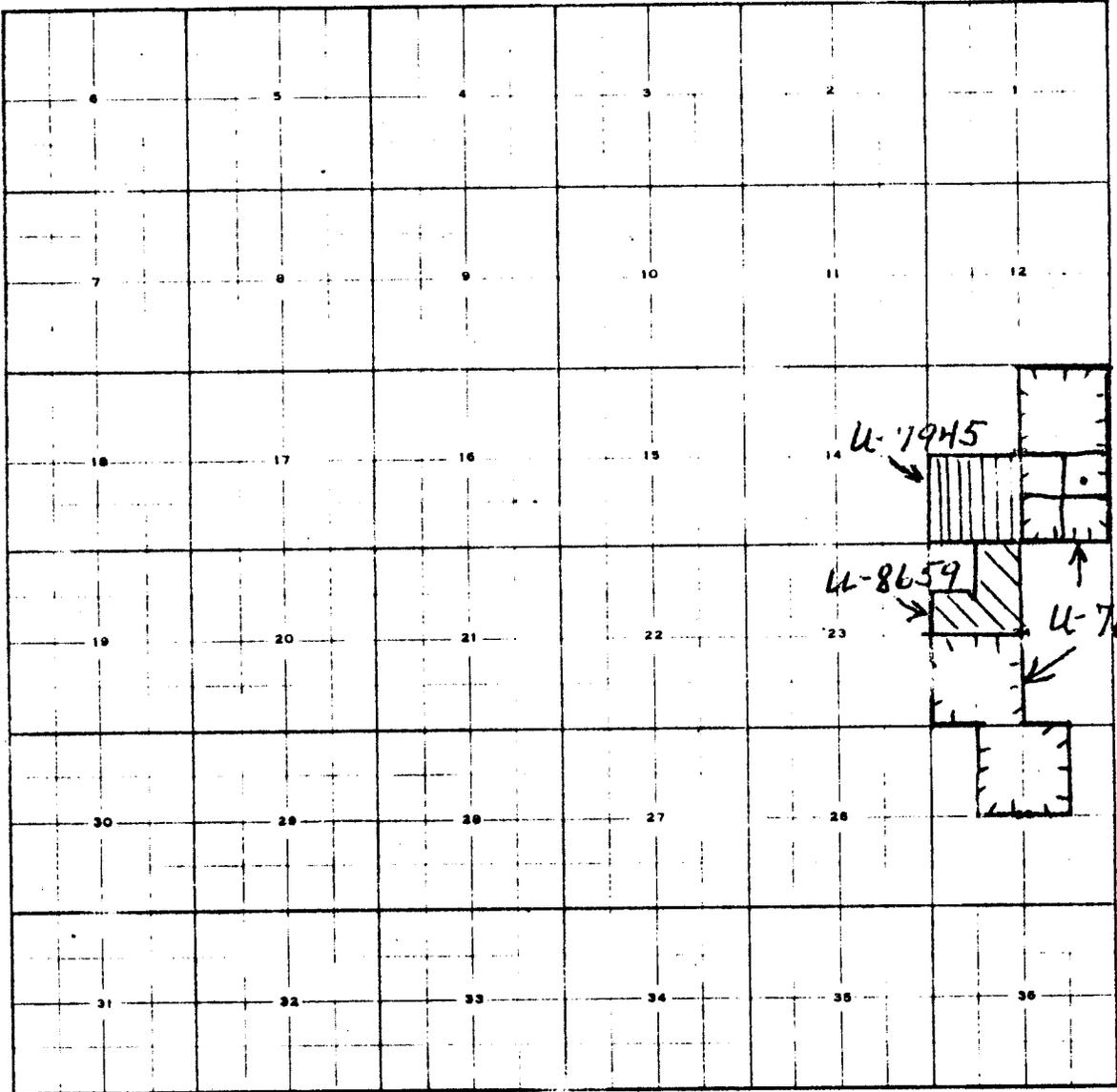
TOWNSHIP 20S RANGE 23E COUNTY Grand

STATE Utah

REMARKS:

COMPANY

Jacobs Oil & Gas Co.



**RECEIVED**

MAR 17 1980

DIVISION OF  
OIL, GAS & MINING

March 27, 1980

R. L. Jacobs Oil and Gas  
2467 Commerce Street  
Grand Junction, Colorado 81501

Re: Well No. Federal #13-2  
Sec. 13, T. 20S, R. 23E.,  
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well is hereby granted in accordance with the Order issued in Cause No. 102-16B dated November 15, 1979.

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

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

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

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

The API number assigned to this well is 43-019-30621.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder  
Geological Engineer

/b:tm

cc: USGS



# United States Department of the Interior

IN REPLY REFER TO

3100  
(U-603)

BUREAU OF LAND MANAGEMENT

Moab District  
Grand Resource Area  
P. O. Box M  
Moab, Utah 84532

April 22, 1980

## Memorandum

To: Oil & Gas Office, USGS Conservation Division,  
P.O. Box 3768, Grand Jct., CO 81502

From: Area Manager, Grand

Subject: R. L. Jacobs Oil & Gas Co.  
Federal #13-2, Lease U-7623  
Section 13, T. 20 S., R. 23 E.  
Grand County, Utah

On April 14, 1980, a representative from this office met with Greg Darlington, USGS, and Don Quigley agent of Jacobs Oil & Gas Co. for an inspection of the above referenced location. Subject to the attached conditions, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location for it lies within the Danish Flat Cultural Mitigation study area. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to R. L. Jacobs Oil & Gas Co.

Enclosures: (3)  
1-Reclamation Procedures  
2-Seed Sources  
3-Seed Mixture

*C. Delano Backus*



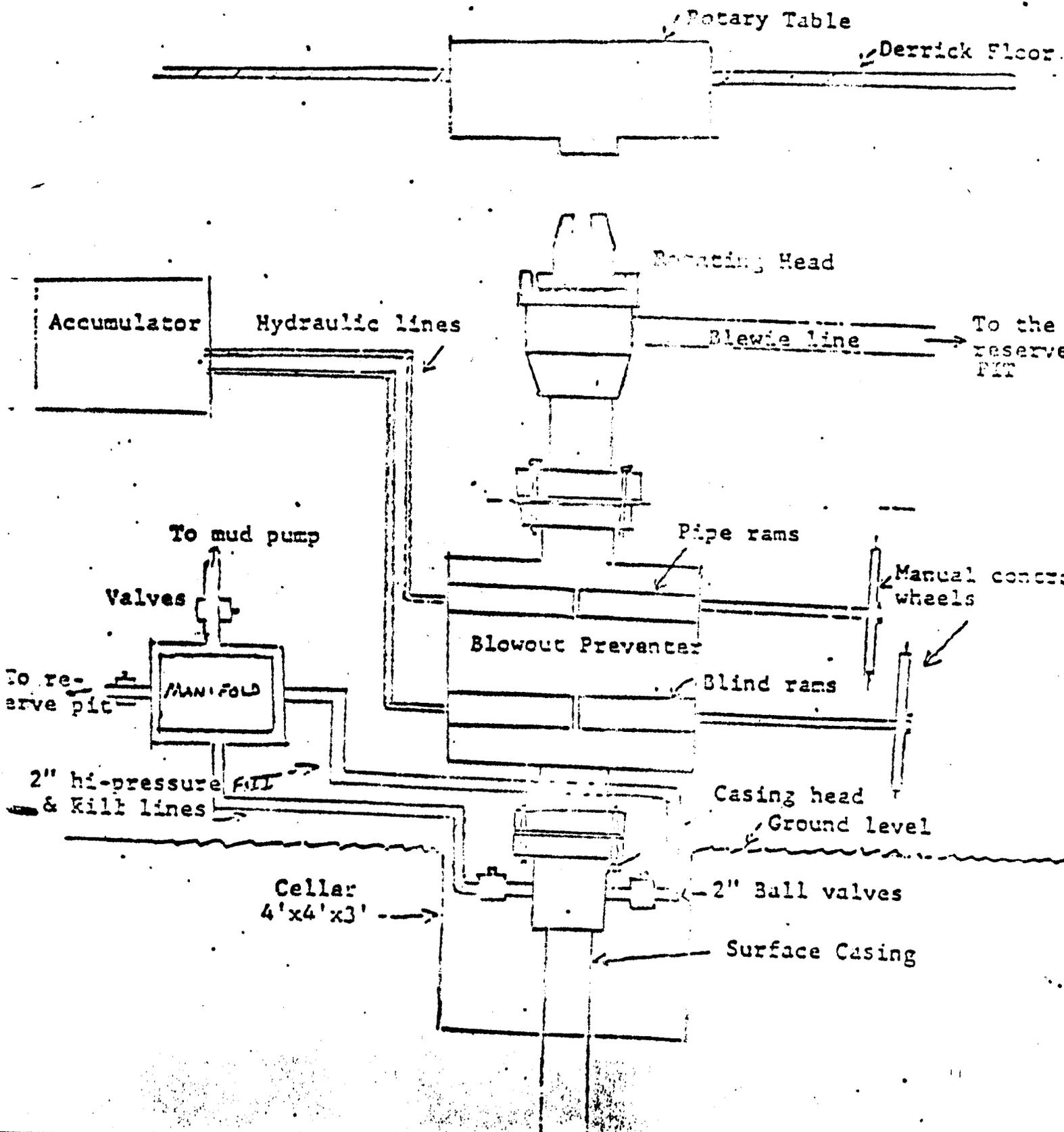
Save Energy and You Serve America!

U S Geological Survey  
Oil & Gas Office  
P O. Box 3768  
Grand Junction CO 81501

23 APR REC'D

SCHEMATIC DIAGRAM OF  
CONTROL EQUIPMENT FOR THE

R. L. JACOBS OIL & GAS CO.  
FEDERAL #13-2 WELL  
SE. NE. SEC. 13-208-23E.



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

SUBMIT ~~TRIPPLICATE\*~~  
(Other instructions on  
reverse side)

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b>		5. <b>LEASE DESIGNATION AND SERIAL NO.</b> U-7623
2. <b>NAME OF OPERATOR</b> R. L. Jacobs Oil And Gas Company		6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b> NA
3. <b>ADDRESS OF OPERATOR</b> 2467 Commerce Blvd. Grand Junction, Colorado 81501		7. <b>UNIT AGREEMENT NAME</b> NA
4. <b>LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface</b> SE NE SEC. 13-20S-23E SLM 600' FR. E-Line And 1640' FR. N-Line		8. <b>FARM OR LEASE NAME</b> Federal
14. <b>PERMIT NO.</b>	15. <b>ELEVATIONS (Show whether DF, RT, GR, etc.)</b>	9. <b>WELL NO.</b> #13-2
		10. <b>FIELD AND POOL, OR WILDCAT</b> Cisco Springs
		11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> SE NE SEC. 13-20S-23E SLM
		12. <b>COUNTY OR PARISH</b> 13. <b>STATE</b> Grand Utah

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

**NOTICE OF INTENTION TO:**

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

**SUBSEQUENT REPORT OF:**

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

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

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

- 1) Plugged June 18, 1980  
Plugged Back" 10 sacks at surface, 100' to 200'  
1180' to 1380', 1800' to 2005'.
- 2) Dry Hole marker in place 6/25/80
- 3) Location cleaned, Mouse Hole and Rat Hole closed, and pits backfilled July 9, 1980.



DEC 01 1980

DIVISION OF  
OIL, GAS & MINING

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

SIGNED Leonard Collins TITLE Controller DATE July 14, 1980

(This space for Federal or State office use)

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

November 20, 1980

R.L. Jacobs Oil & Gas  
2467 Commerce St.  
Grand Junction, Colo. 81501

RE: Well No. Federal #13-2  
Sec. 13, T. 20S, R. 23E,  
Grand County, Utah

Gentlemen:

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

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

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

*Debbie Beauregard*

DEBBIE BEAUREGARD  
CLERK TYPIST

STATE OF UTAH

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

U-7623

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

NA

8. FARM OR LEASE NAME

FEDERAL

9. WELL NO.

#13-2

10. FIELD AND POOL OR WELLCAT

CISCO SPRINGS

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

SENE SEC. 13

T 20S R 23E SLM

12. COUNTY OR PARISH

GRAND

13. STATE

UTAH

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

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

2. NAME OF OPERATOR

R.L. JACOBS OIL AND GAS COMPANY

3. ADDRESS OF OPERATOR

2467 COMMERCE BLVD. GRAND JUNCTION CO. 81501

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

At surface 600' FEL, 1640' FNL

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-019-30621

DATE ISSUED

3-26-80

15. DATE SPUDDED

6-12-80

16. DATE T.D. REACHED

6-16-80

17. DATE COMPL. (Ready to prod.)

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

4635 GRD

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

2005

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

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

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

NONE

25. WAS DIRECTIONAL SURVEY MADE

YES

26. TYPE ELECTRIC AND OTHER LOGS RUN

DUAL INDUCTION SFL

27. WAS WELL CORED

NO

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24 #	150'	12 1/4	110 SACKS	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
NONE				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

NONE

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION: NONE; PRODUCTION METHOD: (Flowing, gas lift, pumping—size and type of pump); WELL STATUS: (Producing or shut-in)

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

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

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST W. ESSED BY

35. LIST OF ATTACHMENTS

DUAL INDUCTION SFL

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

SIGNED

Leonard Collins

TITLE

Controller

DATE

12-12-80

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

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

FORMATION	TOP		DESCRIPTION, CONTENTS, ETC.	BOTTOM		GEOLOGIC MARKERS	
	DEPTH	PRESSURE		MEAS. DEPTH	TRUE VERT. DEPTH	NAME	TOP
MANCUS	0		GRAY SHALE	1280		1280	1 1/4'
DAKOTA	1280		MED. GRAINED S.S.	1300		1860	
MORRISON	1860		GREEN AND RED SHALES	1890			0-1970

38.



May 19, 1981

R.L. Jacobs Oil & Gas Company  
2467 Commerce Street  
Grand Junction, Colorado 81501

Re: Well No. Federal #13-1  
Sec. 13, T.20S. R.23E.  
Grand County, Utah

Re: Well No. Federal #13-2  
Sec. 13, T.20S. R.23E.  
Grand County, Utah

Gentlemen:

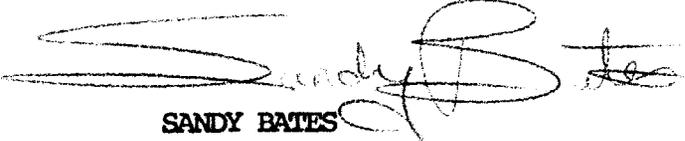
This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

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

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

  
SANDY BATES  
CLERK-TYPIST