

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED **5-30-89**

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. **U-070752** INDIAN _____

DRILLING APPROVED: **6-07-89 (CAUSE NO. 102-16B)**

SPUDED IN: _____

COMPLETED: **5-01-90** *JA* PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: **4639'** *gw*

DATE ABANDONED: *JA 5-01-90*

FIELD: **GREATER CISCO**

UNIT: _____

COUNTY: **GRAND**

WELL NO. **KEAS 5-9** API NO. **43-019-31288**

LOCATION **2840' FSL** FT. FROM (N) (S) LINE. **1100' FWL** FT. FROM (E) (W) LINE. **SWNW** 1/4 - 1/4 SEC **5**

TWP. _____ RGE. _____ SEC. _____ OPERATOR _____

20S	24E	5	WALTER D. BROADHEAD
-----	-----	---	---------------------

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
U-070752

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Keas

9. WELL NO.
Keas 5-9

10. FIELD AND POOL, OR WILDCAT
✓ Greater cisco Area (205)

11. SEC., T., E., M., OR BLK.
AND SURVEY OR AREA
Sec.5 T20S R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

RECEIVED
MAY 30 1989

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
Walter D. Broadhead DIVISION OF OIL, GAS & MINING

3. ADDRESS OF OPERATOR
1645 No. 7th St. Grand Junction, CO 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 2840 feet from the South Line and 1100 feet from the West Line of Sec.5.T20S.R24E.
At proposed prod. zone SWNW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
8-1/2 miles North of Cisco, Utah

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

16. NO. OF ACRES IN LEASE
480

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH
1900 Salt Wash

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4639

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4 surface	7"	17 lb.	150 ft.	circulate to surface
6 1/4 "	4 1/2 "	10.5	1900 feet	

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 Walter D. Broadhead TITLE Operator DATE May 4, 1989

(This space for Federal or State office use)

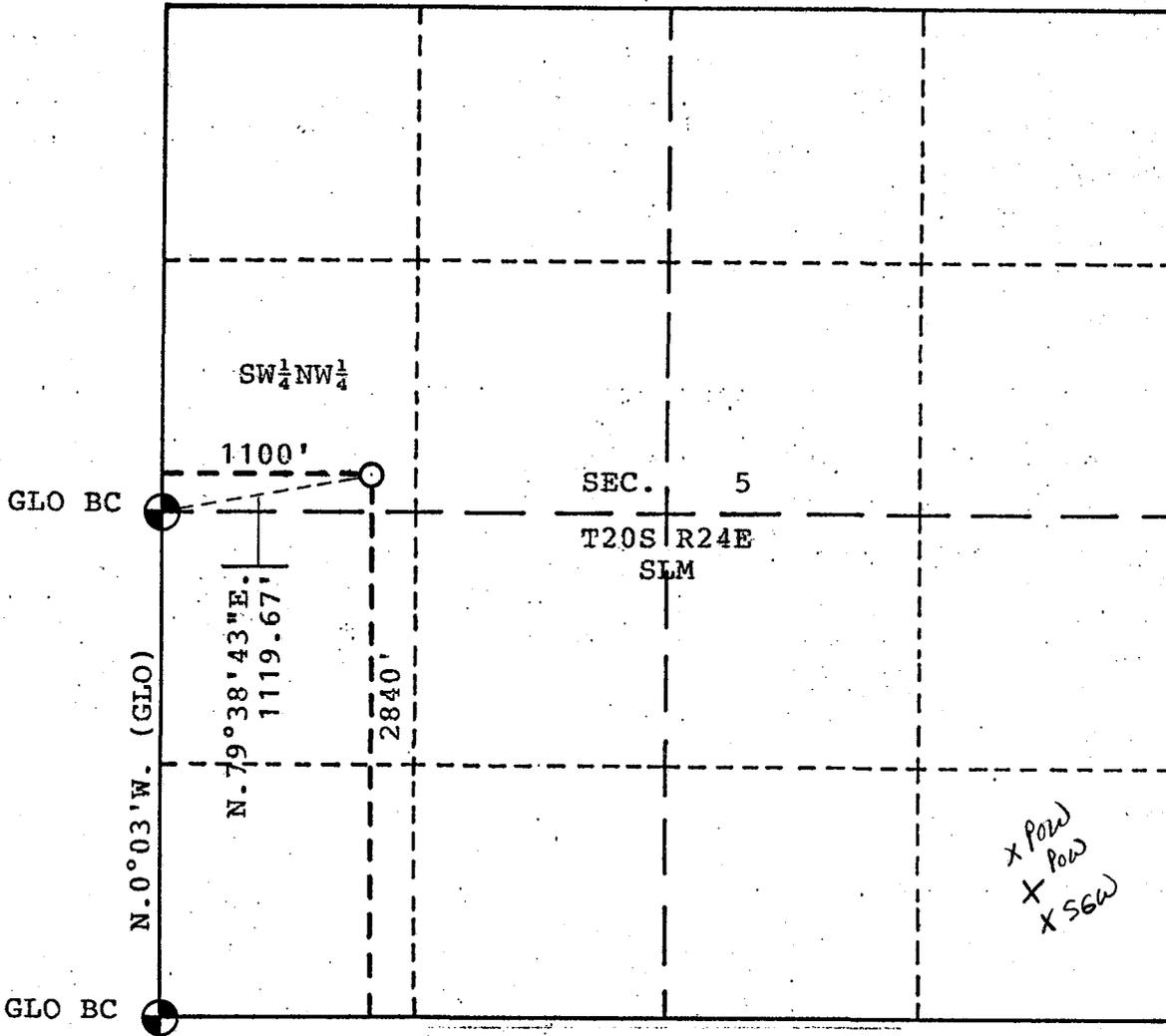
PERMIT NO. 43-019-31288 APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-7-89
BY: John R. B...
WELL SPACING: Clause No. 102-116B

*See Instructions On Reverse Side



X POW
X POW
X S6W



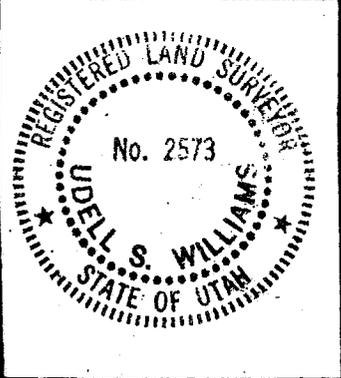
SCALE: 1" = 1000'

KEAS 5-9

Located 2840 feet from the South line and 1100 feet from the West line of Section 5, T20S, R24E, SLM.

Elev. 4639

Grand County, Utah



SURVEYOR'S CERTIFICATE

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

Udell S. Williams
UTAH RLS NO. 2573



UDELL S. WILLIAMS
751 Rood Avenue
Grand Junction, Colorado 81501

PLAT OF
PROPOSED LOCATION
KEAS 5-9
SW 1/4 NW 1/4 SECTION 5
T20S, R24E, SLM

SURVEYED BY: USW DATE: 4/27/89
DRAWN BY: USW DATE: 4/27/89

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Walter D. Broadhead Well No. Keas 5-9
Location: Sec. 5 T. 20 S. R. 24 E Lease No. U-070752

Onsite Inspection Date _____

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Mancos	0 to 1550
Dakota	1550
Brushy Basin	1800
Salt Wash	1950

2. Estimated Depth at Which Oil, Gas, Water, or Mineral-Bearing Zones Are Expected to Be Encountered:

	<u>Formation</u>	<u>Depth</u>
Expected oil zones:	Brushy Basin	1900
Expected gas zones:		
Expected water zones:		
Expected mineral zones:		

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: Regan torus blowout preventor
working pressure 3,000 lbs.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventors will be pressure-tested before drilling casing cement plugs. The Resource Area will be notified 24 days in advance when pressure tests are to be conducted.

4. Casing Program and Auxiliary Equipment:

Surface 9-3/4" hole
Casing 7" to 150 ft.
Cement to Surface
Drill 6-1/4" hole to T.D. Air drill

Anticipated cements tops will be reported as to depth, not the expected number of sacks. The Resource Area (will/will not) be notified _____ days in advance when running casing strings and cement.

5. Mud Program and Circulating Medium:

Gel mud with K CL. will be used to kill well
or drill if necessary

Bloolie line will be misted to reduce fugitive dust when air drilling.

6. Coring, Logging, and Testing Program:

Drill with air and if any shows of oil or gas
is encountered will log electric

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cutting, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

Past drilling in area does not show any abnormal
condition. No hydrogen sulfide gas expected.

8. Anticipated Starting Dates and Notification of Operations:

The operator will contact the Grand Resource Area at 801-259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

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 the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date (will/will not) be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6, "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 will be filed directly with the BLM District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If the replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will 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. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be

obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows: _____

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable, "Well Number, location by 1/4 1/4 section, township and range". "Lease Number".

Other: _____

B. THIRTEEN-POINT SURFACE USE PLAN

1. Existing Roads:

a. Location of proposed well in relation to town or other reference point: 8-1/2 miles North of Cisco, Utah
See Plat 1

b. Proposed route to location: _____
The road going North
Last Cisco Exit in Sec. 29. T20S. R24E

c. Plans for improvement and/or maintenance of existing roads:
Will use existing road as is while drilling
this well. If it should be a producer the
existing road and new access will be constructed
to the Bureau's Class III standard

d. Other: _____

2. Planned Access Roads:

- a. The maximum total disturbed width will be 25 feet.
- b. Maximum grades: 0-5 per cent.

- c. Turnouts: Not planned

- d. Location (centerline): _____

- e. Drainage: all low water

- f. Surface Materials: None planned

- g. Other: No new construction of road

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed will be approved by the Area Manager in advance.

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

- 3. Location of Existing Wells: Keas-8 Keas 3 A Keas-2 shut-in
SE 1/4 Sec. 5 T20S. R24E. Bush gas well

4. Location of Tank Batteries and Production Facilities:

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: Slate grey

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines and valves will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:
Cottonwood Wash

A temporary water use permit for this operation will be obtained from the Utah State Engineer _____.

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Material:

Pad construction material will be obtained from: Location

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Source of construction material (will/will not) be located on lease.

7. Methods of Handling Water Disposal:

The reserve pit (will/will not) be lined" _____

Three sides of the reserve pit will be fenced with sheep fencing 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.

All trash must be contained and disposed of by: trash cage

If burning is required, a permit will be obtained from the State Fire Warden _____.

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

Other: _____

8. Ancillary Facilities:

Camp facilities (will/will not) be required. They will be located:

9. Well Site Layout:

The reserve pit will be located: East side

The top 6 to 10 inches of soil material will be removed from the location and stockpiled separately on west side of the
dull pad

Topsoil along the access road will be reserved in place adjacent to the road.

Access to the well pad will be from: South of existing road

The trash pit will be located: north side of pad

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

Before any dirt work to restore the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production.

The operator or his contractor (~~will~~/will not) notify the Grand Resource Area at 801-259-8197 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used: _____

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed. _____

Additional Requirements: _____

11. Surface and Mineral Ownership: Surface - Private; Mineral - Fed.

12. Other Information: Vegetation is sparse and includes

Nuttall Saltbush and Indian ricegrass. Sheep and cattle grazing. Antelope habitat

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance ~~will~~ (will not) be required before any construction begins. If any cultural resources area found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

13. Leessee's Operator's Representative and Certification

Representative:

Name: Walter D. Broadhead
Address: 1645 No. 7th St.
Grand Junction, Colo. 81501
Phone No.: _____

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently 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: Walter D. Broadhead and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

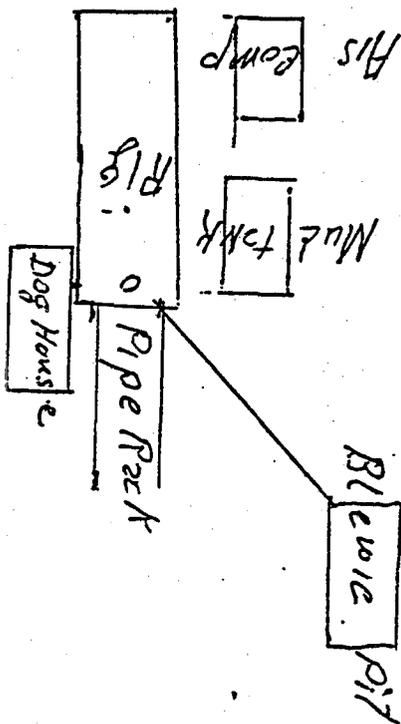
May 4, 1989

Date

Walter D. Broadhead
Name and Title
Walter D. Broadhead, Operator



North



NEAR 5-9

3704

REGAN FORGE & ENGINEERING COMPANY

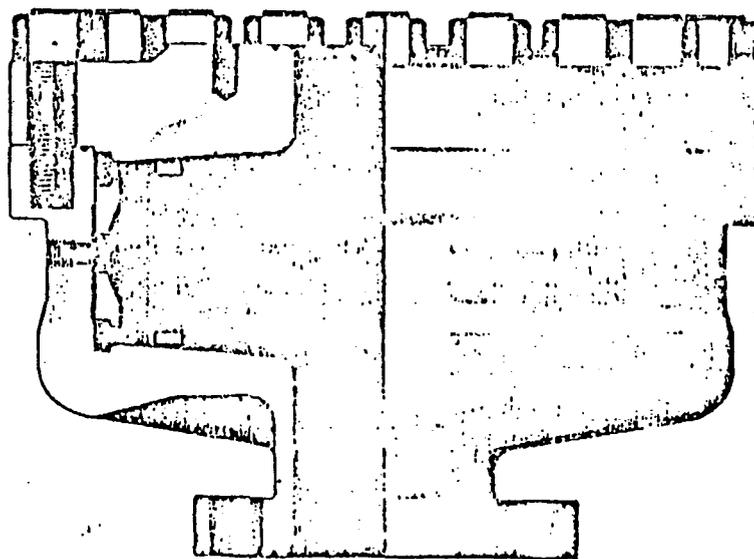
San Pedro, Calif.

REGAN BLOWOUT PREVENTERS

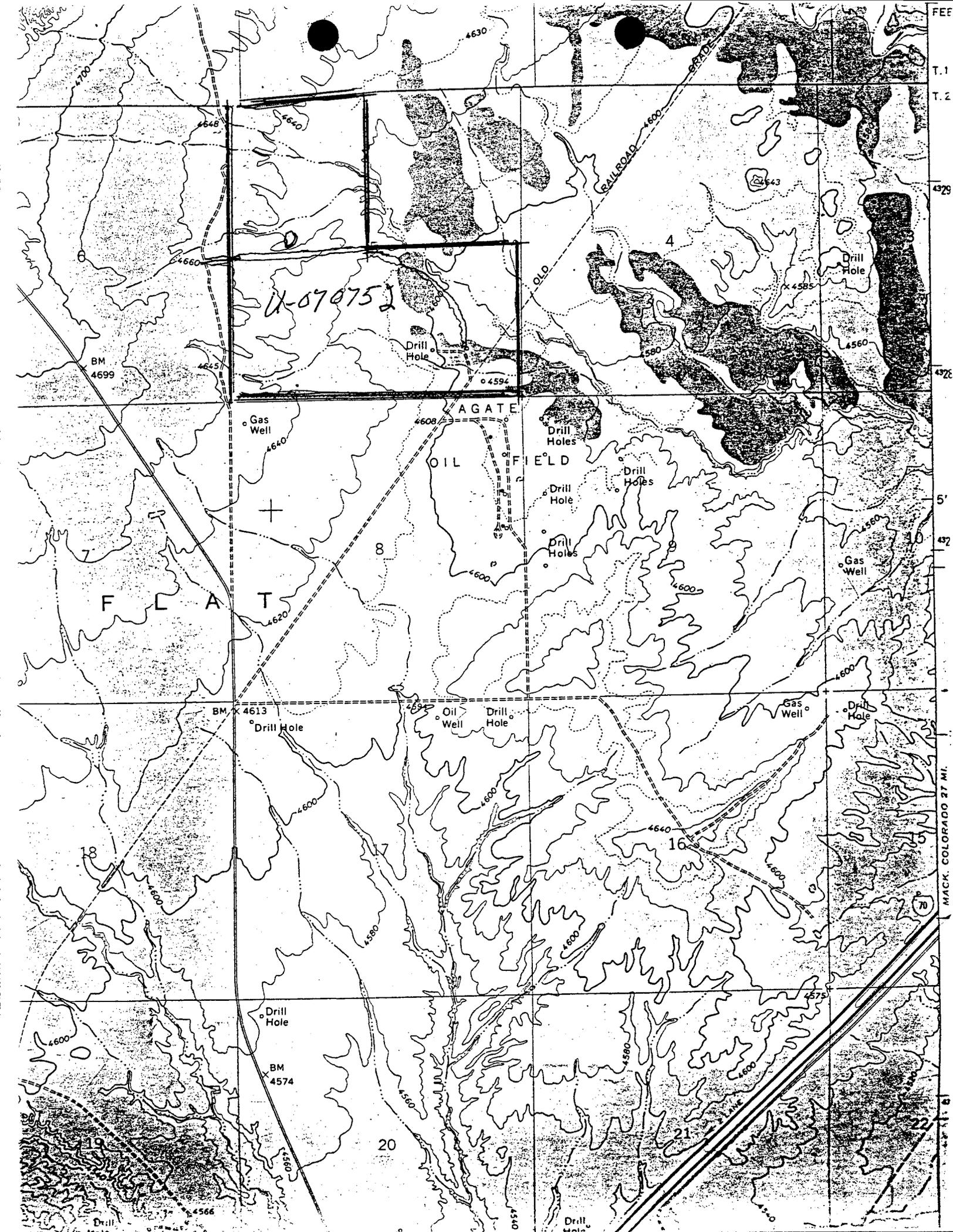
The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 3000 PSI working pressure

DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
- b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore.
- c. The packer will seal an open hole at full working pressure.
- d. The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.



TORUS BLOWOUT PREVENTER
PATENTED



RECEIVED
MAY 15 1989
TEMPORARY
MAY 1989
DIVISION OF
OIL, GAS & MINERAL
WATER RIGHTS
SALT LAKE

FILING FOR WATER IN THE STATE OF UTAH

Rec. by Vr
Fee Rec. 30.00
Receipt # 26212
Microfilmed _____
Roll # _____

APPLICATION TO APPROPRIATE WATER RIGHTS PRICE

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

* WATER RIGHT NO. 01 1057 * APPLICATION NO. A T63918

1. * PRIORITY OF RIGHT: May 4, 1989 * FILING DATE: May 4, 1989

2. OWNER INFORMATION
Name(s): Walter D. Broadhead * Interest: 100 %
Address: 1645 North 7th
City: Grand Junction State: Colorado Zip Code: 81501
Is the land owned by the applicant? Yes _____ No X - BLM
(If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: _____ cfs and/or 3.0 ac-ft

4. SOURCE: Cottonwood Wash * DRAINAGE: _____
which is tributary to _____
which is tributary to _____
POINT(S) OF DIVERSION: _____ COUNTY: Grand
N. 1400 ft. & W. 1490 ft. from SE Cor. Sec. 33, T19S, R24E, SLB&M

Description of Diverting Works: Pump and water trucks
* COMMON DESCRIPTION: 9 1/2 miles Northwest of Cisco Danish Flat Quad

5. POINT(S) OF REDIVERSION
The water will be rediverted from _____ at a point: _____
Description of Rediverting Works: _____

6. POINT(S) OF RETURN
The amount of water consumed will be _____ cfs or 3.0 ac-ft
The amount of water returned will be _____ cfs or _____ ac-ft
The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE
Reservoir Name: _____ Storage Period: from _____ to _____
Capacity: _____ ac-ft. Inundated Area: _____ acres
Height of dam: _____ feet
Legal description of inundated area by 40 acre tract(s): _____

* These items are to be completed by the Division of Water Rights
TEMPORARY
Appropriate

8. List any other water rights which will supplement this application _____

9. NATURE AND PERIOD OF USE

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other: Exploration Drilling	From <u>May 4, 1989</u>	to <u>May 3, 1990</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
 Stockwatering (number and kind): _____
 Domestic: _____ Families and/or _____ Persons
 Municipal (name): _____
 Mining: _____ Mining District in the _____ Mine
 Ores mined: _____
 Power: Plant name: _____ Type: _____ Capacity: _____
 Other (describe): Oil and Gas Drilling

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): _____
Keas 5-9 Well:
N. 200 ft. & E. 1100 ft. from W 1/2 Cor. Sec. 5, T20S, R24E, SLB&M (SW 1/4 NW 1/4)
Federal 29-5 Well:
S. 2435 ft. & E. 350 ft. from NW Cor. Sec. 29, T20S, R24E, SLB&M (SW 1/4 NW 1/4)

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of same size if necessary): _____

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Walter D. Broadhead
Signature of Applicant(s)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

WATER RIGHT NUMBER: 01 - 1057

APPLICATION NO. T63918

1. May 4, 1989 Application received by MP.
2. May 9, 1989 Application designated for APPROVAL by MP and KLJ.
3. Comments:

Conditions:

This application is hereby APPROVED, dated May 12, 1989, subject to prior rights and this application will expire on May 12, 1990.


Robert L. Morgan, P.E.
State Engineer

BEFORE THE BOARD OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
IN AND FOR THE STATE OF UTAH

IN THE MATTER OF ADOPTING AMEND-)
MENTS TO FIELD RULE 1-2 AND 2-2,)
CAUSE NO. 2, NO. 102-5, AND NO.)
102-16, WHICH RULES ESTABLISHED)
WILDCAT WELL SPACING FOR THE)
SEIBER-CISCO NOSE AREA, GRAND)
COUNTY, UTAH)

FINDINGS AND ORDER

CAUSE NO. 102-16B

This cause came on for hearing before the Board of Oil, Gas and Mining at 10:00 a.m. on Wednesday, September 26, 1979, in the executive Conference Room, Holiday Inn, 1659 West North Temple, Salt Lake City, Utah.

The following Board Members were present:

Charles R. Henderson, Chairman
John L. Bell, Member
Edward T. Beck, Member
Thadis W. Box, Member
Constance K. Lundberg, Member
C. Ray Juvelin, Member
E. Steele McIntyre, Member

Appearances were made as follows:

James Bowers
Damon Gilland
Dean Christensen
Don Quigley

NOW, THEREFORE, the Board having heard the testimony of the witnesses and having considered the evidence and being advised in the premises, now makes and orders the following:

FINDINGS

1. That due and regular notice of the time, place and purpose of the hearing was given to all interested parties in the form and manner and within the time required by law.
2. That the Board has jurisdiction over the matter covered by said application and over all parties interested therein and has jurisdiction to make and promulgate the order hereinafter set forth.
3. That the Dakota, Morrison and Cedar Mountain Formations underly the area under consideration.
4. That the sands of the Dakota, Morrison and Cedar Mountain Formations are lenticular in nature.

5. That most, if not all, of the operators in the area are of the opinion that it is not economically feasible to drill wells on the 40 acre or 640 acre wildcat spacing pattern as provided for in Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

6. That there is unanimity among the operators with respect to the suggested amendments to Field Rule 2-2.

IT IS THEREFORE ORDERED:

ORDER

1. That the Board's order in Cause No. 2, Cause No. 102-5, and Cause No. 102-16 is hereby revised as follows:

Field Rule 1-2 reads:

The spacing of all wells drilled for oil or gas which are within the following described area--to wit:

Township 18 South, Range 25 East
Sec: 25 through 36

Township 18 South, Range 26 East
Sec: 29 through 32

Township 19 South, Range 23 East
Sec: 19 through 36

Township 19 South, Range 24 East
Sec: All

Township 19 South, Range 25 East
Sec: All

Township 19 South, Range 26 East
Sec: 5 through 8

Township 20 South, Range 21 East
Sec: All

Township 20 South, Range 22 East
Sec: All

Township 20 South, Range 23 East
Sec: All

Township 20 South, Range 24 East
Sec: All

Township 20 South, Range 25 East
Sec: All

Township 21 South, Range 22 East
Sec: 1 through 12

Township 21 South, Range 23 East
Sec: All

Township 21 South, Range 24 East
Sec: All

and are not within a pool for which drilling units have been established shall be governed by Field Rule 2-2.

✓ Field Rule 2-2 is amended to read:

"All wells drilled for the discovery of oil and/or gas which are not within a pool, reservoir, or field for which drilling units have been established or for which a petition for establishment of a drilling unit has been filed, shall be located not less than 500 feet from any property or lease line and not less than 200 feet from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location, and not less than 400 feet from any oil well, or less than 1320 feet from any gas well, unless otherwise specifically authorized by the Board after notice of hearing.

Whenever an exception is granted by the Board, the Board may, at any time thereafter, take such action as will offset any advantage which the person securing the exception may obtain over the other producers in the area covered by Field Rule 1-2."

✓ All previously drilled wells and all wells drilled in the future which:

- a. are less than 660 feet from the lease or property line and are classified as gas wells or
- b. are less than 200 feet from the lease or property line and are classified as oil wells

may be offset, the same distance from the property line, or a drilling unit may be established for said well if the Board of Oil, Gas and Mining, finds, after notice and a hearing that correlative rights are being violated.

* All notices of Intention of Drill must be accompanied by a plat on which is outlined the acreage covered by the lease on which the well is to be drilled.

✓ Rule 1-2 and Rule 2-2 are only applicable to wells drilled or to be drilled to a depth of 3500 feet or less.

2. That the board retains continuing jurisdiction over all matters covered by this order and particularly to make further orders as may be necessary under conditions and circumstances developed in the future.

ENTERED this 15th day of November, 1979.

STATE OF UTAH
BOARD OF OIL, GAS AND MINING



Charles R. Henderson, Chairman

John L. Bell, Member



Edward T. Beck, Member

OPERATOR Walter D. Broadhead (N11307) DATE 6-1-89

WELL NAME Keas 5-9

SEC SWNW 5 T 20S R 24E COUNTY Grand

43-019-31288
API NUMBER

Federal
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Well spacing ok under Cause No. 102-16B

Water Permit T63918 / 01-1057 (may 89 to 90)

APPROVAL LETTER:

SPACING: R615-2-3

N/A
UNIT

R615-3-2

102-16B 11-15-79
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

June 7, 1989

Walter D. Broadhead
1645 North 7th Street
Grand Junction, Colorado 81501

Gentlemen:

Re: Keas 5-9 - SW NW Sec. 5, T. 20S, R. 24E - Grand County, Utah
2840' FSL, 1100' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 102-16B dated November 15, 1979.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

Page 2
Walter D. Broadhead
Keas 5-9
June 7, 1989

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31288.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
D. R. Nielson
J. L. Thompson
WE14/1-2



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE RESOURCES

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Timothy H. Provan
Division Director

Southeastern Region
455 West Railroad Avenue
Price, Utah 84501-2829
801-637-3310

RECEIVED
JUN 26 1989

June 21, 1989

DIVISION OF
OIL, GAS & MINING

Lisha Romero
Utah Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Ref: Presite Inspections

Dear Lisha:

In regards to presite inspections to determine special stipulations for oil and gas prospects, the following is offered for your consideration.

- (1) State Unit #41 -- ML4668 (T 16 S, R 25 E, Sec. 36 NENE, Grand County) lies within high-priority valued deer winter range. *43-019-31289 - Lone mtn.*
- (2) San Arroyo #42 (T 16 S, R 26 E, Sec. 30 NESE, Grand County) lies within high-priority valued deer winter range. *43-019-31290 - Lone mtn.*
- (3) San Arroyo #43 (T 16 S, R 26 E, Sec. 29 NESE, Grand County) lies in a dual area ranked as being of high-priority value for wintering deer and yearlong use by pronghorn antelope. *43-019-31291 - Lone mtn.*
- (4) Wild Stallion #2 (T 34 S, R 23 E, Sec. 32 NESE, San Juan County) lies within high-priority valued deer winter range. *43-037-31466 - Samedan*
- (5) Wild Stallion #3 (T 36 S, R 23 E, Sec. 33 NESW, San Juan County) lies within high-priority valued deer winter range.
- (6) Keas 5-9 (T 20 S, R 24 E, Sec. 5 SWNW, Grand County) lies within high-priority valued yearlong range for pronghorn antelope. *43-019-31288 - Walter Broadhead*
- (7) Federal 29-5 (T 20 S, R 24 E, Sec. 6 SWNW, Grand County) lies within high-priority valued yearlong range for pronghorn antelope. *Walter Broadhead-*

cc: BLM
state Lands

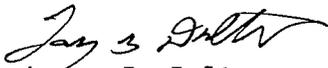
Lisha Romero
Page 2
June 21, 1989

Mule deer on high-priority valued winter range need to be protected from man's disturbance between December 1 and April 15 each year. Antelope on yearlong range needs to be protected from man's disturbance during periods of severe snow conditions and at the time of parturition (5-15 to 6-15). Tables 1 and 2 identify revegetation prescriptions that would enhance winter range values for deer, and yearlong use areas for antelope, respectively.

Roads should be planned such that they can be closed and permanently reclaimed at project abandonment. Other surface disturbed sites should be planned to encompass as small an area as is practicable. Revegetation of disturbed sites should ensue to advantage the first growing season following abandonment.

Thank you for an opportunity to review and provide comment.

Sincerely,



Larry B. Dalton
Wildlife Program Manager
Habitat Protection/Resource Analysis

LBD/dd

cc: Ralph Miles

Table 1. Revegetation prescription for disturbed areas within critical or high-priority valued deer and elk winter range.

(1) Disturbed areas should be double ripped. (2) Fertilizer (0-16-8) at a rate of 100 lb/acre should be disked into the topsoil mass prior to seeding. (3) The seed mix should be drilled, followed by an identical application hydrosprayed as a slurry to incorporate more seed mix, tacifier (60 lb/acre), wood fiber mulch (2,000 lb/ acre), and nitrogen fertilizer (33-0-0 distributed at a rate of 100 lb/acre). (3b) If a drill/hydrospray technique is not utilized, the pounds of pure live seed/acre in the seed mix should be doubled and then drilled. After seed application, nitrogen fertilizer (33-0-0 distributed at a rate of 100 lb/acre) should be broadcasted. (4) Seeding should occur following a permanent killing frost which is usually after October 15.

Plant Material	Pounds of Pure Live Seed/Acre
Smooth brome (<u>Bromus inermis</u> -southern variety)	1.5
Alkali Sacation (<u>Sparobolus alooides</u>)	1
Russian wildrye (<u>Elymus junceus</u>)	1
Indian ricegrass (<u>Oryzopsis hymensides</u>)	0.5
Piute orchardgrass (<u>Dactylis glomerata</u>)	1.5
Utah sweetvetch, out of hull (<u>Hedysarum germinale</u>)	1.5
Alfalfa (<u>Medicago sativa</u> - ladak)	1.5
Small Burnett (<u>Sanguisorba minor</u>)	1
Yellow sweetclover (<u>Melilotus officinalis</u>)	0.5
Palmer penstomen (<u>Penstemon palmer</u>)	0.5
Lewis flax (<u>Linum lewisii</u>)	1
Antelope bitterbrush (<u>Purshia tridentata</u>)	0.5
*Wyoming big sagebrush (<u>Artemisia tridentata wyomingensis</u>)	0.5 (20% purity)
*Great Basin sagebrush (<u>A. t. tridentata</u>)	0.5 (20% purity)
*Mountain sagebrush (<u>A. t. vaseyana</u>)	0.5 (20% purity)
Fourwing saltbush (<u>Atriplex canescens</u>)	1
Winterfat (<u>Ceratoides lanata</u>)	0.5
	TOTAL 15

*These species should not be drill seeded. They should be hydrosprayed in the slurry or broadcast over the surface after drilling of other seed.

Table 2. Revegetation prescription for disturbed areas within yearlong deer, pronghorn antelope and desert bighorn sheep use areas.

(1) Disturbed areas should be double ripped. (2) Fertilizer (0-16-8) at a rate of 50 lb/acre should be disked into the topsoil mass prior to seeding. (3) The seed mix should be drilled, followed by an identical application hydrosprayed as a slurry to incorporate more seed mix, tacifier (60 lb/acre), wood fiber mulch (2,000 lb/ acre), and nitrogen fertilizer (33-0-0 distributed at a rate of 50 lb/acre). (3b) If a drill/hydrospray technique is not utilized, the pounds of pure live seed/acre in the seed mix should be doubled and then drilled. After seed application, nitrogen fertilizer (33-0-0 distributed at a rate of 50 lb/acre) should be broadcasted. (4) Seeding should occur following a permanent killing frost which is usually after October 15.

Plant Material	Pounds of Pure Live Seed/Acre
Galleta (<u>Hilaria jamesii</u>)	1
Sand dropseed (<u>Sporobolus cryptandrus</u>)	1
Alkali sacation (<u>Sporobolus airoides</u>)	0.5
Russian wildrye (<u>Elymus junceus</u>)	0.5
Indian ricegrass (<u>Oryzopsis hymensides</u>)	1
Sandberg bluegrass (<u>Poa secunda</u>)	1
Utah sweetvetch, out of hull (<u>Hedysarum germinale</u>)	1
Alfalfa (<u>Medicago sativa</u> - Ladak)	1.5
Gooseberry globemallow (<u>Sphaeralcea grossulariaefolia</u>)	0.5
Small burnett (<u>Sanguisorba minor</u>)	1
Yellow sweetclover (<u>Melilotus officinalis</u>)	0.5
Palmer penstemon (<u>Penstemon palmeri</u>)	1
Lewis flax (<u>Linum lewisii</u>)	1
Mexican cliffrose (<u>Cowania mexicana</u>)	0.5
Antelope bitterbrush (<u>Purshia tridentata</u>)	0.5
*Wyoming big sagebrush (<u>Artemisia tridentata wyomingensis</u>)	0.25 (20% purity)
*Great Basin sagebrush (<u>A. t. tridentata</u>)	0.25 (20% purity)
Black sagebrush (<u>A. nova</u>)	0.5
Green Mormon tea (<u>Ephedra viridis</u>)	0.5
Fourwing saltbush (<u>Atriplex canescens</u>)	1
Winterfat (<u>Ceratoides lanata</u>)	0.5
TOTAL	15.5

*These species should not be drill seeded. They should be hydrosprayed in the slurry or broadcast over the surface after drilling of other seed.

3162 (U-065)
(U-070752)
(U-034745)

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

MAY 07 1990

MAY - 4 1990

DIVISION OF
OIL, GAS & MINING

Walter D. Broadhead
1645 N. 7th Street
Grand Junction, Colorado 81501

Re: Applications for Permit to Drill
Well No. Keas 5-9
SWNW Sec. 5, T. 20 S., R. 24 E.
Lease U-070752
Well No. Hartzke Federal 29-5
SWNW Sec. 29, T. 20 S., R. 24 E.
Lease U-034745

Dear Mr. Broadhead:

The above referenced applications were received May 12, 1989. In a letter dated July 12, 1989, you were asked to submit the required deficiencies necessary to approve your applications for permit to drill. Since this date we have not received the requested information, therefore, we are returning your applications unapproved.

Should you intend to drill these locations at a future date, new applications for permit to drill must be submitted along with the requested information.

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

Sincerely yours,

Isl A. Lynn Jackson
Acting Assistant District Manager
Mineral Resources

Enclosure:
Applications for Permit to Drill (2)

cc: GRA (w/o encl.)
State of Utah, Division of Oil, Gas & Mining (w/o encl.) ✓

VButts:vb:5/4/90



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

May 21, 1990

Walter D. Broadhead
1645 North 7th Street
Grand Junction, Colorado 81501

Dear Mr. Broadhead:

Re: Keas 5-9, Sec. 5, T. 20S, R. 24E, Grand County, Utah, API No. 43-019-31288

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely

Don T. Staley
Administrative Supervisor
Oil and Gas

TAS/lhc
cc: R.J. Firth
BLM - Moab
Well file *
HOI2/20