

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

5. LEASE DESIGNATION AND SERIAL NO. <b>57455</b>		
6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
7. UNIT AGREEMENT NAME <b>Hanging Rock</b>		
8. FARM OR LEASE NAME		
9. WELL NO. <b>13-11</b>		
10. FIELD OR LEASE NAME		
11. Sec., T., R., M., OR BLK AND SURVEY OR AREA <b>Sec. 3, T12S, R23E, S.L. B. &amp;M</b>		
12. COUNTY OR PARISH <b>Uintah</b>	13. STATE <b>Utah</b>	
15. DISTANCE FROM PROPOSED LOC. TO NEAREST PROP. OR LEASE LINE, FT. (Also to nearest drlg. Unit line, if any) <b>2,025'</b>	16. NO. OF ACRES IN LEASE <b>10,094.71</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>
16. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. <b>4,500'</b>	18. PROPOSED DEPTH <b>4,700'</b>	20. ROTARY OR CABLE TOOLS <b>Rotary</b>
21. ELEVATION (SHOW WHETHER DF, RT, GR, etc.) <b>6,315'</b>	22. APPROX. DATE WORK WILL START <b>1-May-98</b>	

**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  
**Rosewood Resources, Inc.**

3. ADDRESS OF OPERATORS  
**100 Crescent Court, Suite 500, Dallas TX 7520 214-871-5729**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  
 at surface **2172' FSL, 2025' FWL, NE/SW Sec. 3, T12S, R23E, S.L. B. &M**  
 At proposed prod. Zone **b1? b1?**

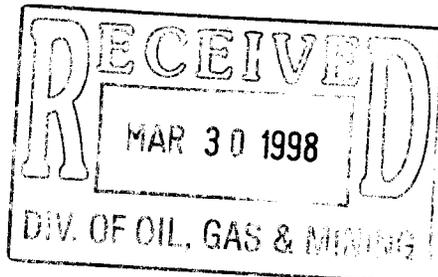
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
**26.7 miles south of Bonanza, UT**

15. DISTANCE FROM PROPOSED LOC. TO NEAREST PROP. OR LEASE LINE, FT. (Also to nearest drlg. Unit line, if any) <b>2,025'</b>	16. NO. OF ACRES IN LEASE <b>10,094.71</b>	17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40</b>
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PROPOSED CASING AND CEMENT PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24	300'	To Surface
7 7/8"	4 1/2"	11.6	T.D.	Cmt top to cover oil shale

**Operator requests permission to drill the subject well please see the attached 10 point surface use plan.  
If you require additional information please contact:**

**William (Bill) Ryan  
350 S. 800 E.  
Vernal, Utah  
435-789-0968 Office  
435-828-0968 Cellular**



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

24  
 SIGNATURE William A. Ryan TITLE Agent DATE 3/11/98

PERMIT NO. 43-047-33102 APPROVAL DATE \_\_\_\_\_  
 APPROVED BY Bradley G. Hill TITLE BRADLEY G. HILL DATE 4/9/98  
 CONDITIONS OF APPROVAL, IF ANY: RECLAMATION SPECIALIST III

**Federal Approval of this Action is Necessary**  
 \*See Instructions on Reverse Side  
 Title 18 U. S. C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

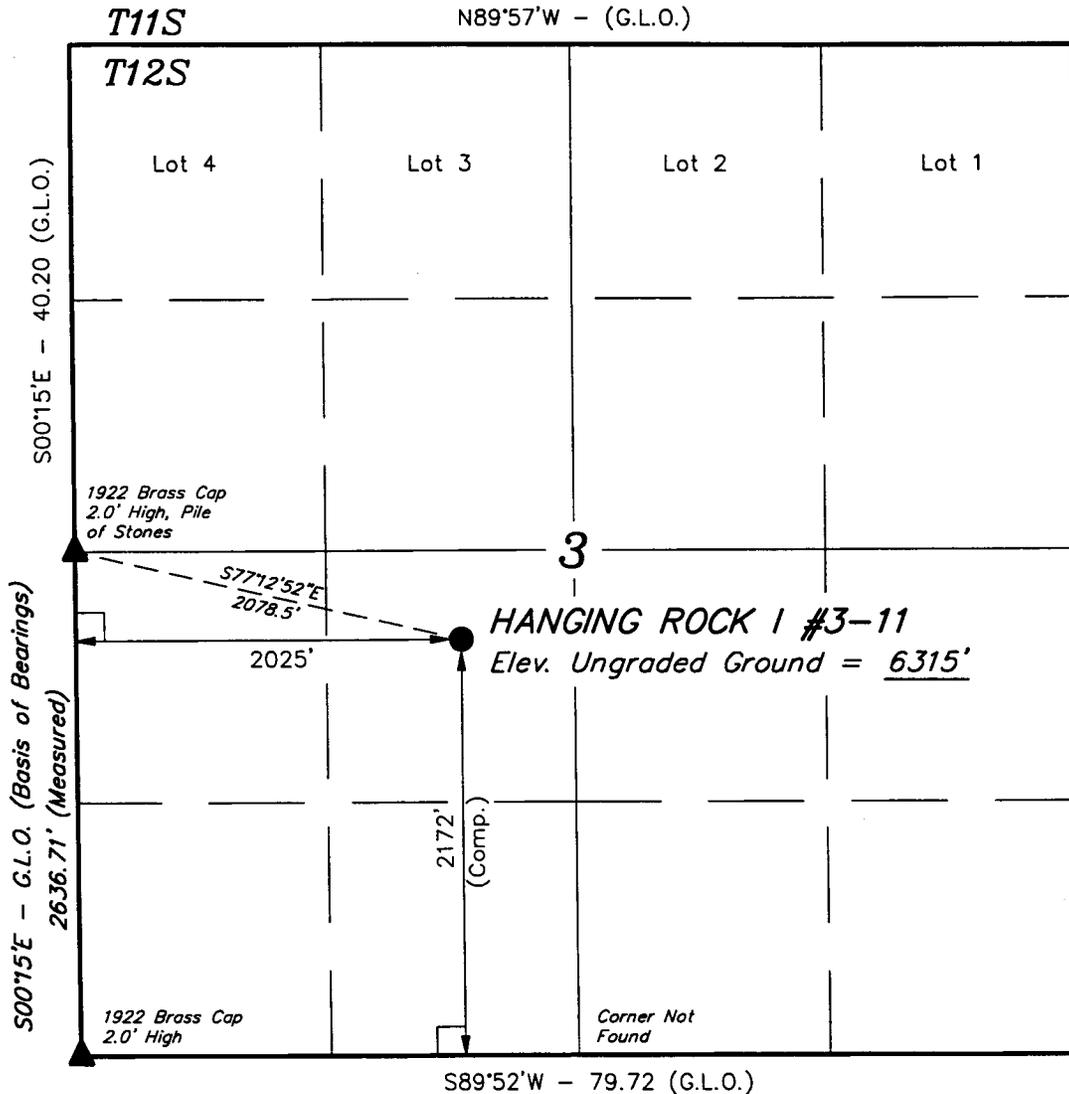
# T12S, R23E, S.L.B.&M.

## ROSEWOOD RESOURCES, INC.

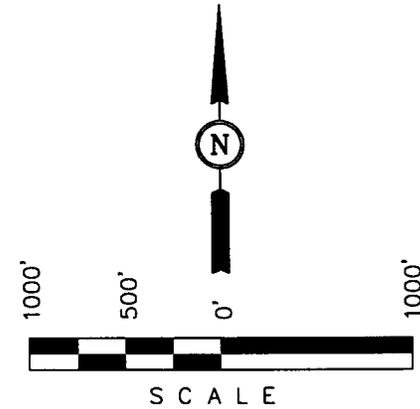
Well location, HANGING ROCK I #3-11, located as shown in the NE 1/4 SW 1/4 of Section 3, T12S, R23E, S.L.B.&M. Uintah County Utah.

### BASIS OF ELEVATION

BENCH MARK 87 EAM LOCATED IN THE SW 1/4 OF SECTION 1, T12S, R23E, S.L.B.&M. TAKEN FROM THE ARCHY BENCH SE. QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5887 FEET.

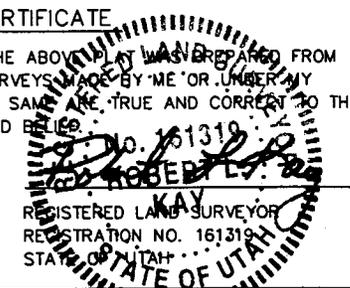


S00°02'E - 79.91 (G.L.O.)



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE 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.



**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 39°48'04"  
 LONGITUDE = 109°19'51"

SCALE 1" = 1000'	DATE SURVEYED: 02-05-98	DATE DRAWN: 02-09-98
PARTY K.K. J.B. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE ROSEWOOD RESOURCES, INC.	

**SELF-CERTIFICATION STATEMENT**

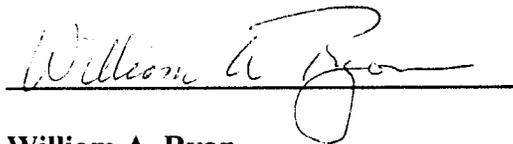
**The following self-certification statement is provided per Federal requirements dated June 15, 1988.**

**Please be advised that Rosewood Resources, Inc., is considered to be the operator of the following well.**

**Hanging Rock I 3-11  
NE 1/4, SW 1/4, Section 3, T. 12 S., R. 23 E.  
Lease UTU-57455  
Uintah County, Utah**

**Rosewood Resources, Inc., is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands.**

**Bond coverage is provided by Certificate of Deposit, BLM Bond #MT-0627.**



**William A. Ryan  
Agent  
Rocky Mountain Consulting  
350 S. 800 E.  
Vernal UT 84078  
801-789-0968 Office  
801-823-6152 Cell  
801-789-0970 Fax**

# Ten Point Plan

Rosewood Resources, Inc.

Hanging Rock I 3-11  
Hanging Rock Unit

Surface Location NE 1/4, SW 1/4, Section 3, T. 12 S., R. 23 E.

## 1. Surface Formation:

Green River

## 2. Estimated Formation Tops and Datum:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Green River	Surface	+6,315' G.L.
Oil Shale	500	+5,815
Wasatch	2,975	+3,340
Mesaverde formation	4,725	+1,590
T.D.	5,300	+1,015

## 3. Producing Formation Depth:

Formation objective include the Wasatch and its submembers.

Off Set Well Information:

Off set well: None

## 4. Proposed Casing :

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight/Ft.</u>	<u>Grade &amp; Tread</u>	<u>Setting Depth</u>	<u>Casing New/Used</u>
11	8 5/8	24	J-55/STC	300	New
7 7/8	4 1/2	11.6	J-55/LTC	T.D.	New

## Cement Program:

<u>Casing Size</u>	<u>Cement Type</u>	<u>Cement Amount</u>	<u>Cement Yield</u>	<u>Cement Weight</u>
8 5/8	Class "G" 2% Calcium 1/4 #/sk Cello Flake	150 sks.+/-	1.16 cu. ft./sk.	15.82 lbs./gal.
4 1/2	Stage 1 Class "G" 10% salt 10% gell .1% R-3 .4 FL-25	540 sks.+/-	1.44 cu. ft./sk.	15.23 lbs./gal.
	Stage 2. Class "G" 3% salt 16% gel (Bentonite) 2% WR15 .4 lbs/sk FL 25	205 sks.+/-	3.91 cu. ft./sk.	11.0 lbs./gal.

## 5. BOP and Pressure Containment Data:

The anticipated bottom hole pressure will be less than 3000 psi.

A 3000 psi WP BOP system as described in the BOP and Pressure Containment Data (attached) will be installed and maintained from the 9 5/8" surface casing. The BOP system including the casing will be pressure tested to the minimum standards set forth in "On Shore Order #2". The BOP will be mechanically checked daily during the drilling operation.

## 6. Mud Program:

<u>Interval</u>	<u>Mud weight lbs/gal.</u>	<u>Viscosity Sec./Qt.</u>	<u>Fluid Loss MI/30 Mins.</u>	<u>Mud Type</u>
0-300	Air/Clear Water	----	No Control	Water/Gel
300-2500	Clear Water	----	No Control	Water/Gel
2500-T.D.	8.4-8.6	30	8-10	Water/Gel

## 7. Auxiliary Equipment:

Upper Kelly cock, full opening stabbing valve, 2 1/2" choke manifold and pit level indicator.

**8. Testing, Coring, Sampling and Logging:**

- a) Test: None are anticipated.
- b) Coring: There is the possibility of sidewall coring.
- c) Sampling: Every 10' from 2000' to T.D.
- d) Logging:

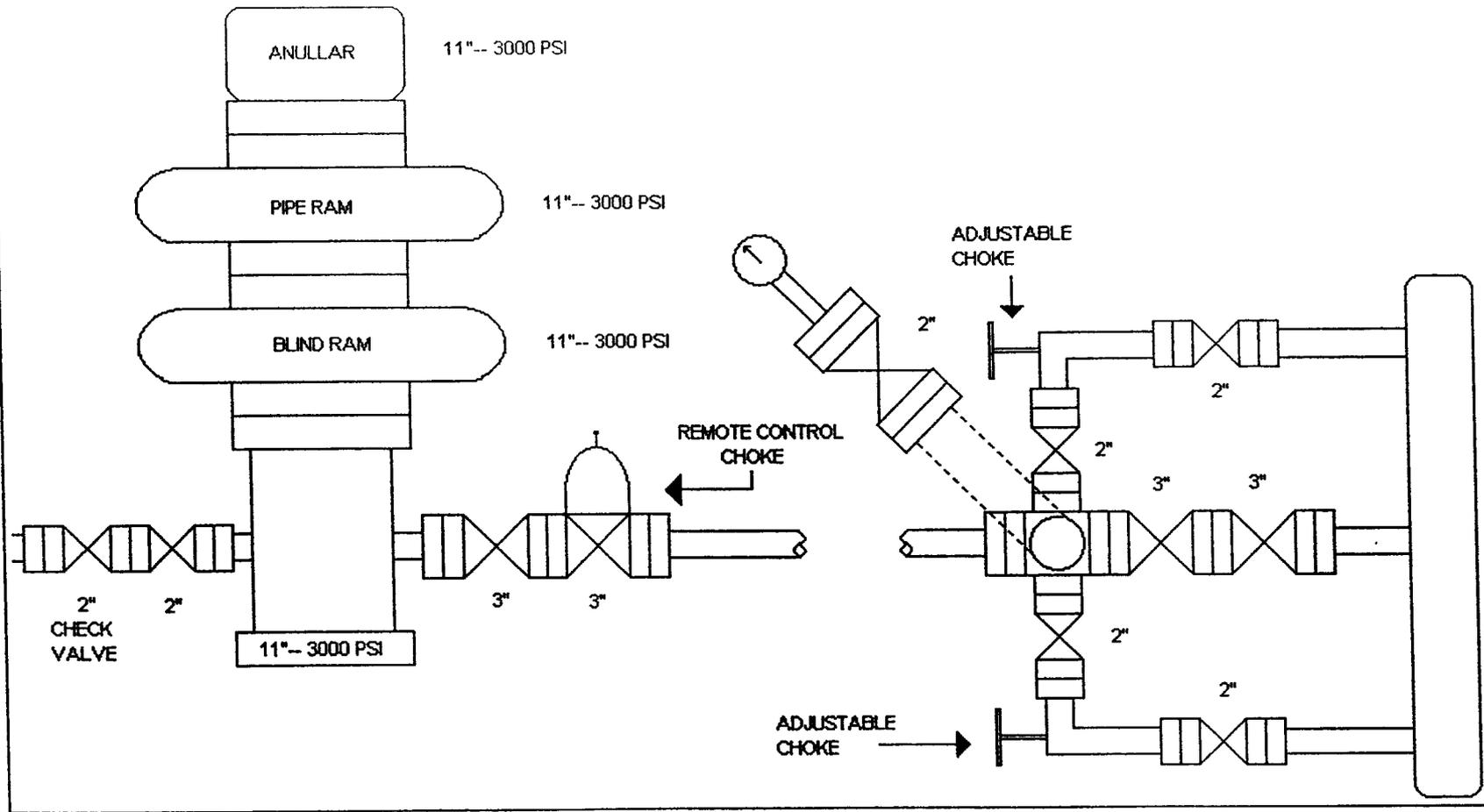
Type	Interval
DLL/SFL W/GR and SP	T.D. to Surf. Csg
FDC/CNL W/GR and CAL	T.D. to Surf. Csg

**9. Abnormalities (including sour gas):**

No abnormal pressures, temperatures or other hazards are anticipated. Oil and gas shows are anticipated in the Wasatch Formation. Other wells drilled in the area have not encountered over pressured zones or H2S.

**10. Drilling Schedule:**

The anticipated starting date is May 1, 1998. Duration of operations expected to be 30 days.



**ROSEWOOD RESOURCES, INC.**

**13 POINT SURFACE USE PLAN**

**FOR WELL**

**HANGING ROCK I 3-11**

**HANGING ROCK UNIT**

**LOCATED IN**

**NE 1/4, SW 1/4**

**SECTION 3, T. 12 S., R. 23 E., U.S.B.&M.**

**UINTAH COUNTY, UTAH**

**LEASE NUMBER: UTU-57455**

**SURFACE OWNERSHIP: FEDERAL**

## 1. Existing Roads

To reach the Rosewood Resources Inc., Hanging Rock I 3-11 well location, in Section 3, T 12 S, R 23 E, from Bonanza, Utah:

Starting in Bonanza, Utah proceed south on the paved road for 4 miles. Turn south (left) on the Book cliffs road (dirt road). Proceed south 3.9 miles to the Greeks Corrals. Turn west (right) at the fork in the road. Proceed 8.3 miles to the Asphalt Wash sign. Stay to the south (left) of the sign. Proceed .7 miles to the Rainbow sign. Stay to the west (right) of the sign. This is also called the Kings Wells road. Proceed 9.6 miles. The proposed access road will start at this point.

All existing roads to the proposed location are State or County Class D roads.

Please see the attached map for additional details.

## 2. Planned access road

The proposed location will require approximately 800 feet of upgraded road construction.

The road will be built to the following standards:

A) Approximate length	800 Ft.
B) Right of Way width	30 Ft.
C) Running surface	18 Ft.
D) Surfacing material	Native soil
E) Maximum grade	5%
F) Fence crossing	None
G) Culvert	None
H) Turnouts	None
I) Major cuts and fills	None
J) Road flagged	Yes
K) Access road surface ownership	Federal
L) All new construction on lease	Yes
M) Pipe line crossing	None

Please see the attached location plat for additional details.

**No right of way will be required.** All surface disturbance for the road and location will be within the Unit boundary.

### 3. Location of existing wells

The following wells are located within one mile radius of the location site.

A) Producing wells	None
B) Water wells	None
C) Abandoned wells	None
D) Temporarily abandoned wells	None
E) Disposal wells	None
F) Drilling/Permitted wells	None
G) Shut in wells	None
H) Injection wells	None
I) Monitoring or observation wells	None

Please see the attached map for additional details.

### 4. Location of tank batteries, production facilities, and production gathering service lines.

All production facilities are to be contained within the proposed location site. Please see the attached plat plan for a typical gas well separator installation and well site piping.

All permanent (on site for more than six months or longer) structures constructed or installed will be painted a **Juniper Green** color. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded. The required **paint** color is **Juniper Green**.

All tanks will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank in the battery. The integrity of the dike will be maintained.

The operator will adhere to all site security guidelines and regulations identified in 43 cfr 3126.7.

All off lease storage, off lease measurement, commingling on lease or off lease, of production, will have prior written approval from the authorized officer.

**A proposed surface gas line will be constructed and tie into a proposed line located at well site R. H. 2-7 Sec. 2, T12S, R23E.** Please see the attached location diagrams for pipe line location. There will be no additional surface disturbances required for the installation of a gathering line. The line will be a 2" or 4" steel line.

The gas meter run will be located within 500' of the well head. The gas line will be buried or anchored down from the well head to the meter. Meter runs will be housed and/or fenced.

The gas meter will be calibrated and the tank strapped in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The authorized officer 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 report will be submitted to the BLM's Vernal District office. All measurement facilities will conform with API and AGA standards for gas and liquid hydrocarbon measurement.

#### **5. Location and type of water supply**

Water for drilling and cementing the subject well will be hauled by truck from Rosewoods water station in Section 13, T11S, R23E. A second location may be used, it would be Evacuation Creek permit # 49-1595. The Evacuation Creek distribution point is in Section 7, T11S, R25E. Water for completion will come from the same supply or Vernal City.

#### **6. Source of construction materials**

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. Additional road gravels or pit lining material will be obtained from private sources.

## 7. Methods for handling waste disposal

### A) Pit construction and liners:

The reserve pit will be approximately 10 ft. deep and most of the depth shall be below the surface of the existing ground. Please see the attached plat for details.

**The reserve pit will not be lined unless the pit is blasted or soil conditions would warrant a pit liner.**

The reserve pit will not be used to store water for drilling. A semi-closed system will be used to drill the well. All fresh water for drilling will come from a frac tank placed on location and from the rig tank. The pit will be used to hold non-flammable materials such as cuttings, salt, drilling fluids, chemicals, produced fluids, etc.

### B) Produced fluids:

Produced water will be confined to the reserve pit, or if deemed necessary, a storage tank for a period not to exceed 90 days after initial production. During the 90 day period an application for approval for a permanent disposal method and location will be submitted to the authorized officer.

### C) Garbage:

A trash cage fabricated from expanded metal will be used to hold trash on location and will be removed to an authorized land fill location.

### D) Sewage:

A portable chemical toilet will be supplied for human waste.

### E) Site clean-up

After the rig is moved off the location the well site area will be cleaned and all refuse removed.

## 8. Ancillary facilities

There are no ancillary facilities planned for at this time and none are foreseen for the future.

## 9. Well-site layout

Location dimensions are as follow:

A)	Pad length	325 ft.
B)	Pad width	155 ft.
C)	Pit depth	10 ft.
D)	Pit length	180 ft.
E)	Pit width	50 ft.
F)	Max cut	21.4 ft.
G)	Max fill	8.3 ft.
H)	Total cut yds	13,730 cu. yds.
I)	Pit location	south side
J)	Top soil location	north side
K)	Access road location	north side
L)	Flare pit	corner B

Please see the attached location diagram for additional details.

All pits will be fenced according to the following minimum standards:

- A) Thirty nine inch net wire shall be used with at least one strand of wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- B) The net wire shall be no more than 2 inches above the ground. The barbed wire shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C) Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- D) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 ft.
- E) All wire shall be stretched by using a stretching device before it is attached to the corner posts.

## 10. Plans for restoration of the surface

Prior to construction of the location, the top 6 inches of soil material will be stripped off the location and the pit area. The top soil will amount to approximately 1,000

cubic yards of material. **The top soil will be stockpiled in one distinct piles.** Placement of the top soil is noted on the attached location plat. **The top soil pile from the location will be seeded as soon as the soil is stock piled** with the seed mix listed. When all drilling and completion activities have been completed and the pit backfilled the top soil from the pit area spread on the pit area. **The pit area will be seeded when the soil has been spread.** The unused portion of the location (the area outside the dead men.) will be recontoured

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

A drainage rerouted will be required. The drainage reroute will be discussed as the location is being constructed. The dirt contractor will need to contact the Byran Tolman with the BLM when the pit has been constructed. Changes to the drainage during the construction activities shall be restored to its original line of flow or as near as possible when the pit is backfilled

All disturbed areas will be recontoured to the approximate natural contours. Prior to back filling the pit the fences around the reserve pit will be removed.

The reserve pit will be reclaimed within 90 days of well completion. If the reserve pit has not dried sufficiently to allow back filling, an extension on the time requirement for back filling the pit will be requested. Once reclamation activities have begun, they shall be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The objective is to keep seasonal rain fall and run off from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert run off as needed.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeding, all disturbed areas will be scarified and left with a rough surface.

A) Seeding dates:

Seed will be spread when the top soil is stock piled and when reclamation work is performed.

**The seed mix and quantity list will be used weather the seed is broadcast or drilled.**

**Seed Mix**

Four wing salt brush	4#/acre
Shad scale	3#/acre
Needle & thread grass	3#/acre
Western wheat grass	2#/acre

At such time as the well is plugged and abandoned the operator will submit a surface reclamation plan to the surface management agency for prescribed seed mixture and reseeding requirements.

**11. Surface ownership:**

Access road	Federal
Location	Federal
Pipe line	Federal

**12. Other information**

A) Vegetation:

The vegetation coverage is slight. The majority of the existing vegetation consists of sage brush. Rabbit brush, bitter brush and Indian rice grass are also found on the location.

B) Dwellings:

There are no dwellings, or other facilities within a one mile radius of the location.

C) Archeology:

The location has not been surveyed. A copy of that survey will be forwarded to your office.

If, during operations, any archaeological or historical sites, or any objects of antiquity (subject to the antiquities act of June 8, 1906) are discovered, all operations which would effect such sites will be suspended and the discovery reported promptly to the surface management agency.

D) Water:

The nearest water is the Green River located 4 miles to the north.

E) Chemicals:

No pesticides, herbicides or other possible hazardous chemicals will be used without prior application.

F) Notification:

a) Location construction

At least forty eight (48) hours prior to construction of location and access roads

b) Location completion

Prior to moving on the drilling rig.

c) Spud notice

At least twenty-four (24) hours prior to spudding the well.

d) Casing string and cementing

At least twenty-four (24) hours prior to running casing and cementing all casing strings.

e) BOP and related equipment tests

At least twenty-four (24) hours prior to initial pressure tests.

f) First production notice

With in five (5) business days after the new well begins, or production resumes after well has been off production for more than ninety 90 days.

H) Flare pit

The flare pit will be located in corner B of the reserve out side the pit fence and 100 feet from the bore hole on the **south side of the location**. All fluids will be removed from the pit within 48 hours of occurrence.

**13. Lessees or Operator's representative and certification**

A) Representative

Name: William A. Ryan

Address: Rocky Mountain Consulting  
350 South, 800 East  
Vernal, Utah 84078

Telephone:  
Office 435-789-0968  
Fax 435-789-0970  
Cellular 435-828-0968

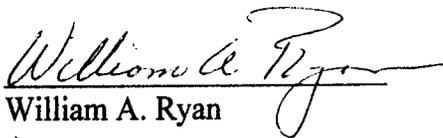
All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, onshore oil and gas orders, the applicable laws, regulations, and any applicable notices to lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

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

B) Certification

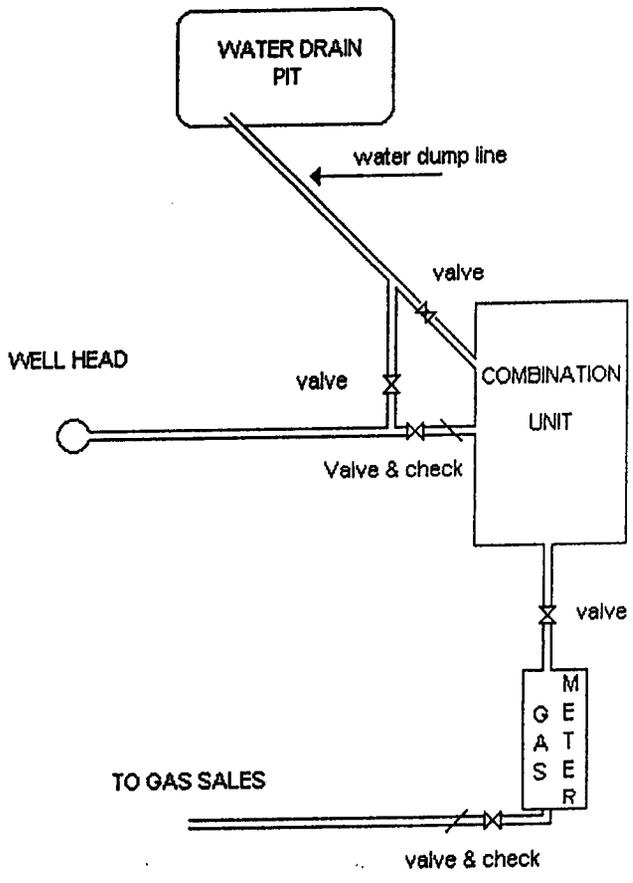
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route, that I am familiar with the conditions which presently exist, that the statements made in this plan are, to the best of my knowledge and belief, true and correct, and that the work associated with the operation proposed herein will be performed by Rosewood Resources, Inc. and its contractors and subcontractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

Date March 11, 1998

  
William A. Ryan  
Agent  
Rocky Mountain Consulting

Onsite Date:	February 11, 1998
Participant on joint inspection:	
Danny Widner	Rosewood Resource, Inc.
Byron Tolman	BLM
Steve Madsen	BLM
Steve Strong	BLM

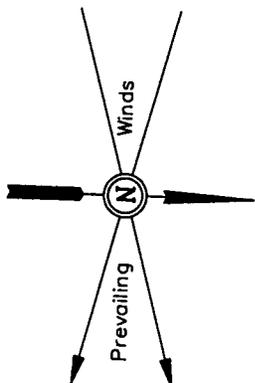
ROSEWOOD RESOURCES, INC  
TYPICAL  
GAS WELL



**ROSEWOOD RESOURCES, INC.**

**LOCATION LAYOUT FOR**

**HANGING ROCK I #3-11**  
**SECTION 3, T12S, R23E, S.L.B.&M.**  
**2172' FSL 2025' FWL**



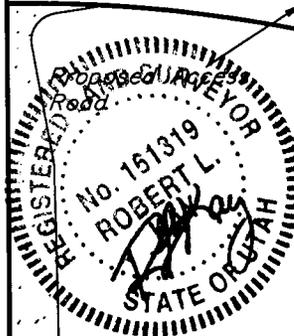
SCALE: 1" = 50'  
 DATE: 02-09-98  
 Drawn By: D.R.B.

C-3.8'  
 El. 317.5'

C-2.6'  
 El. 316.3'

C-1.3'  
 El. 315.0'

Sta. 3+25



Approx. Toe of Fill Slope

Sta. 1+50

F-8.3'  
 El. 305.4'

Sta. 0+00

El. 321.9'  
 C-18.2'  
 (btm. pit)

El. 316.8'  
 C-3.1'

C-1.0'  
 El. 314.7'

Approx. Top of Cut Slope

Water Drainage

10' WIDE BENCH

RESERVE PITS  
 (10' Deep)

Pit Capacity With 2' of Freeboard is 9,710 Bbls. ±

Slope = 1:1

175'

CATWALK

PIPE RACKS

DOG HOUSE

RIG

WATER

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

FUEL

TRASH

MUD TANKS

TRAILER

TOILET

FUEL

STORAGE TANK

Sta. 0+10

El. 335.1'  
 C-31.4'  
 (btm. pit)

C-15.8'  
 El. 329.5'

C-8.4'  
 El. 322.1'

Reserve Pit Backfill & Spoils Stockpile

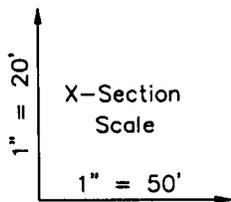
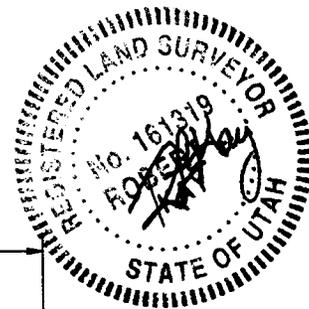
C-1.7'  
 El. 315.4'

Elev. Ungraded Ground at Location Stake = 6314.7'  
 Elev. Graded Ground at Location Stake = 6313.7'

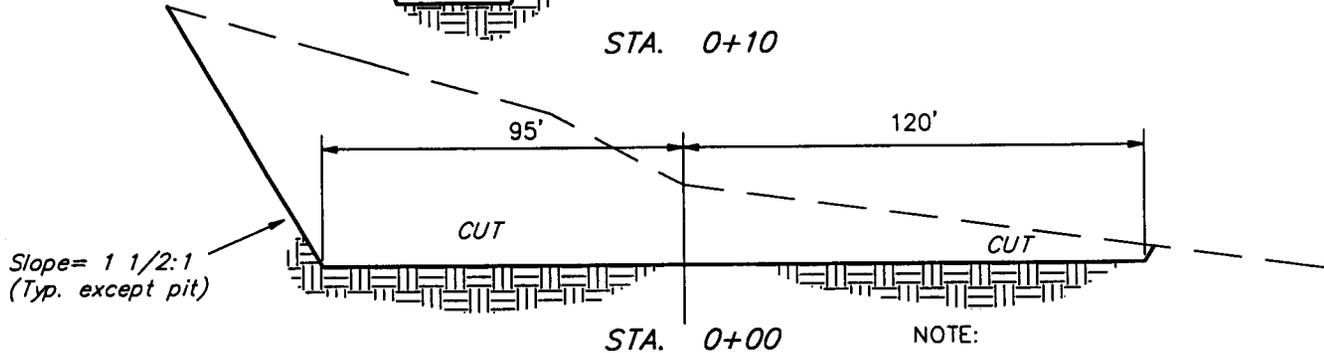
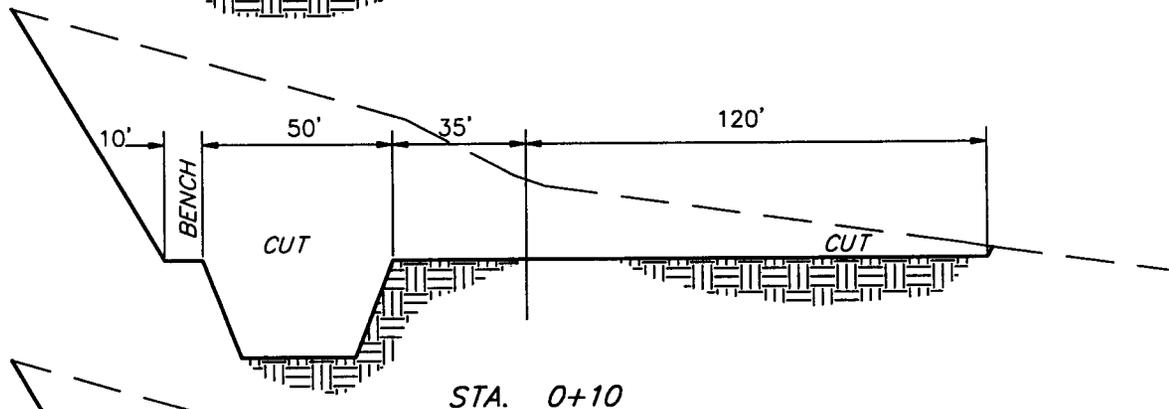
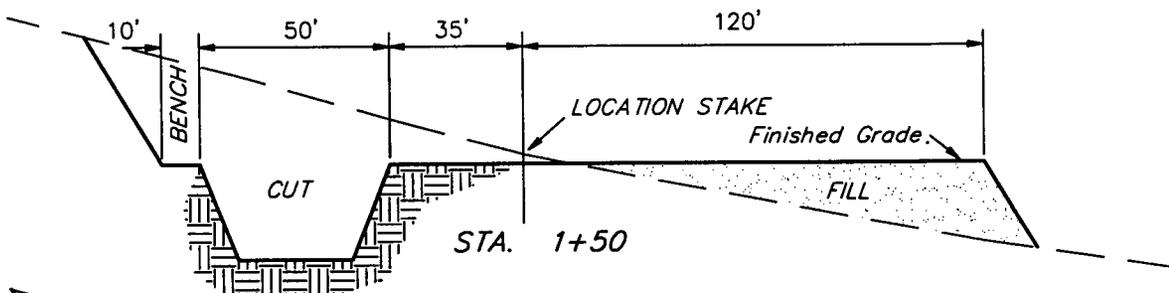
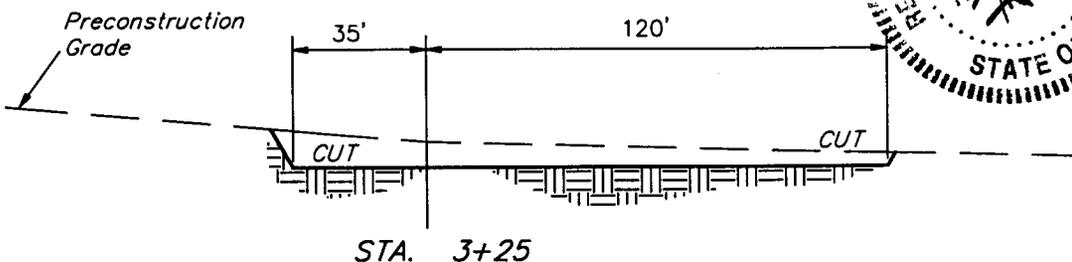
**ROSEWOOD RESOURCES, INC.**

**TYPICAL CROSS SECTIONS FOR**

**HANGING ROCK I #3-11  
SECTION 3, T12S, R23E, S.L.B.&M.  
2172' FSL 2025' FWL**



DATE: 02-09-98  
Drawn By: D.R.B.

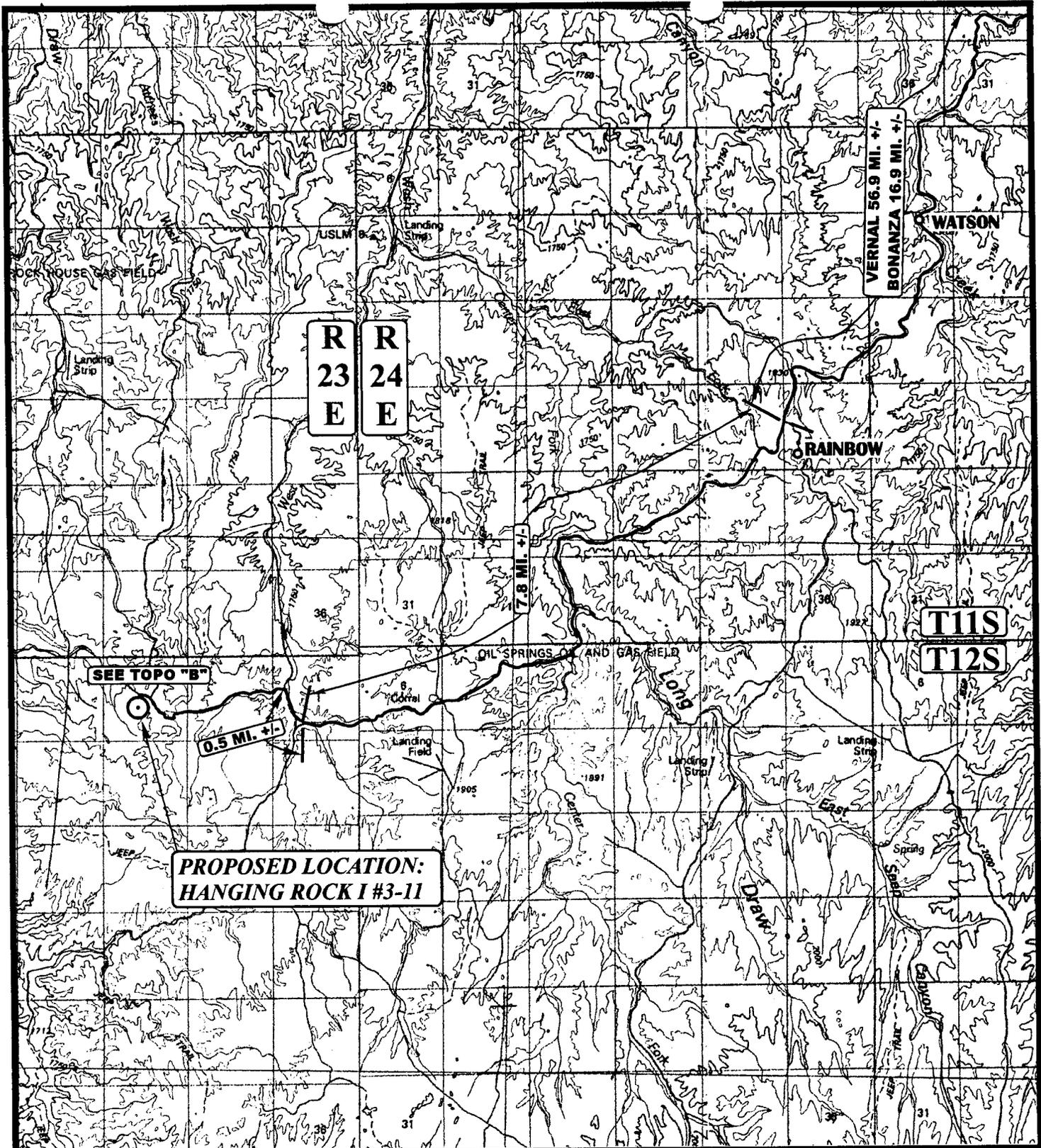


**NOTE:**  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	= 1,100 Cu. Yds.
Remaining Location	= 12,630 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 13,730 CU.YDS.</b>
<b>FILL</b>	<b>= 3,700 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 9,840 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,360 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 7,480 Cu. Yds.



**LEGEND:**

○ PROPOSED LOCATION



**ROSEWOOD RESOURCES, INC.**

**HANGING ROCK I #3-11**  
**SECTION 3, T12S, R23E, S.L.B.&M.**  
**2172' FSL 2025' FWL**



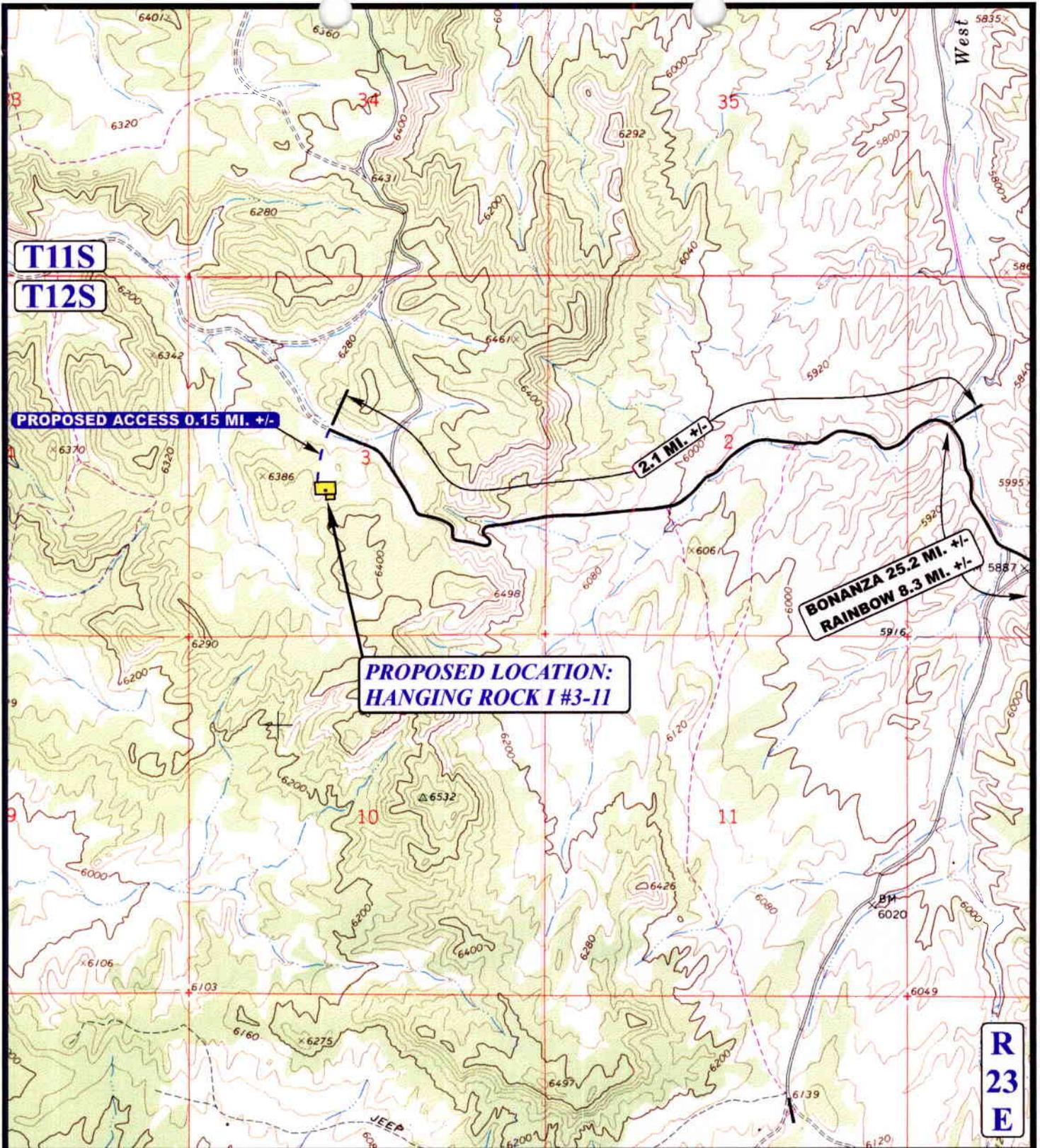
**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**2 9 98**  
 MONTH DAY YEAR

SCALE: 1 : 100,000 DRAWN BY: D.COX REVISID: 00-00-00





**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**ROSEWOOD RESOURCES, INC.**

**HANGING ROCK I #3-11**  
**SECTION 3, T12S, R23E, S.L.B.&M.**  
**2172' FSL 2025' FWL**

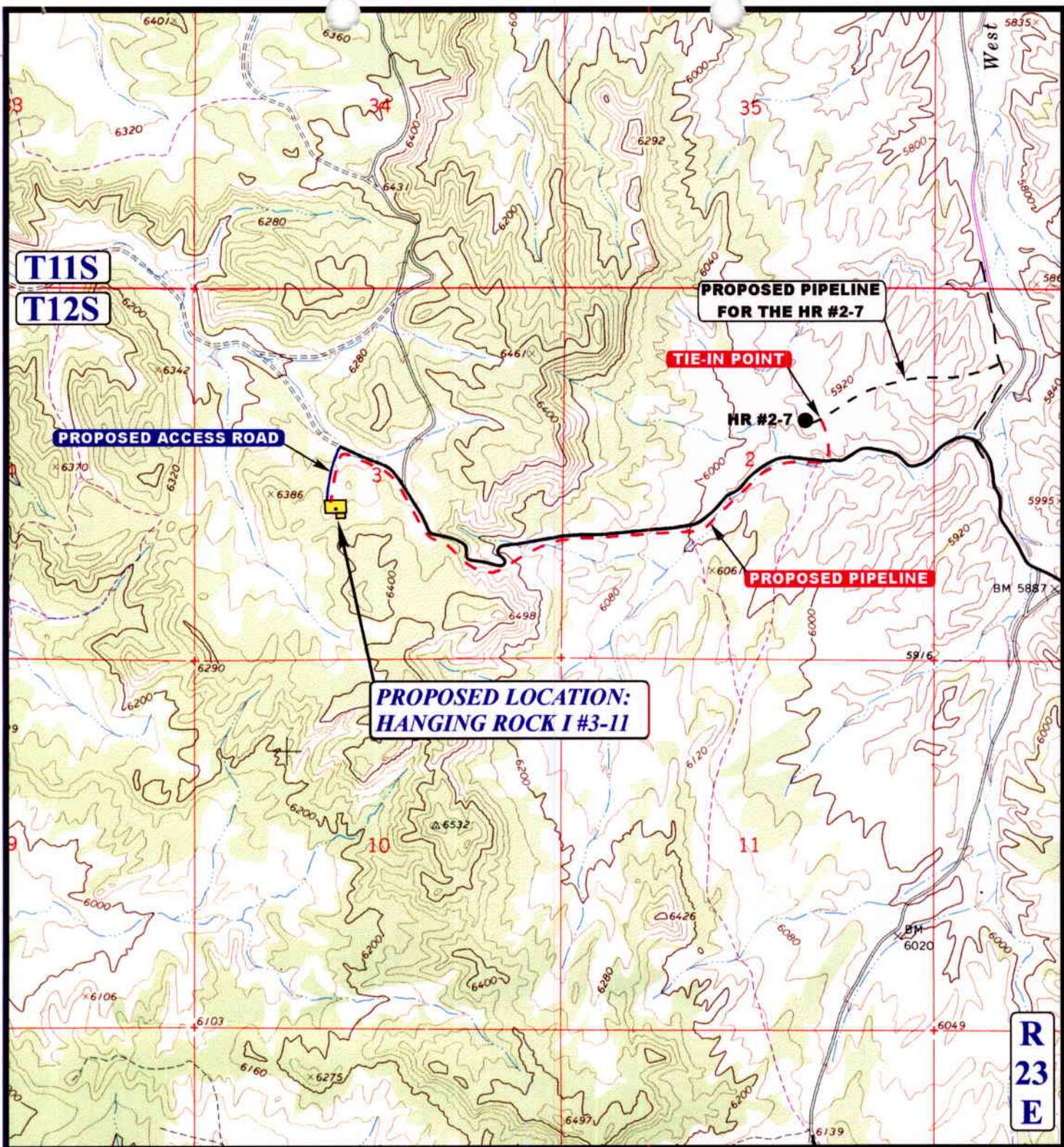


**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **2 9 98**  
**MAP** MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: D.COX REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 9000' +/-**

**LEGEND:**

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS



**ROSEWOOD RESOURCES, INC.**

**HANGING ROCK I #3-11**  
**SECTION 3, T12S, R23E, S.L.B.&M.**  
**2172' FSL 2025' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

<b>TOPOGRAPHIC MAP</b>	<b>2</b>	<b>9</b>	<b>98</b>
	MONTH	DAY	YEAR
SCALE: 1" = 1000'		DRAWN BY: D.COX	
		REVISED: 00-00-00	



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/30/98

API NO. ASSIGNED: 43-047-33102
--------------------------------

WELL NAME: HANGING ROCK I 3-11  
 OPERATOR: ROSEWOOD RESOURCES INC (N7510)  
 CONTACT: Bill Ryan (435) 789-0968

PROPOSED LOCATION:  
 NESW 03 - T12S - R23E  
 SURFACE: 2172-FSL-2025-FWL  
 BOTTOM: 2172-FSL-2025-FWL  
 UINTAH COUNTY  
 UNDESIGNATED FIELD (002)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: UTU-57455  
 SURFACE OWNER: BLM

PROPOSED FORMATION: WSTC

RECEIVED AND/OR REVIEWED:

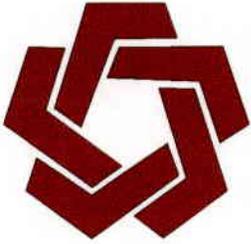
Plat  
 Bond: Federal  State  Fee   
 (No. #MT-0627)  
 Potash (Y/N)  
 Oil Shale (Y/N) \*190-5(B)  
 Water Permit  
 (No. Rosewood Wtr. Station 2.49-1595)  
 RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)  
 St/Fee Surf Agreement (Y/N)

LOCATION AND SITING:

R649-2-3. Unit Hanging Rock  
 R649-3-2. General  
 R649-3-3. Exception  
 Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STIPULATIONS: ① FEDERAL APPROVAL  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



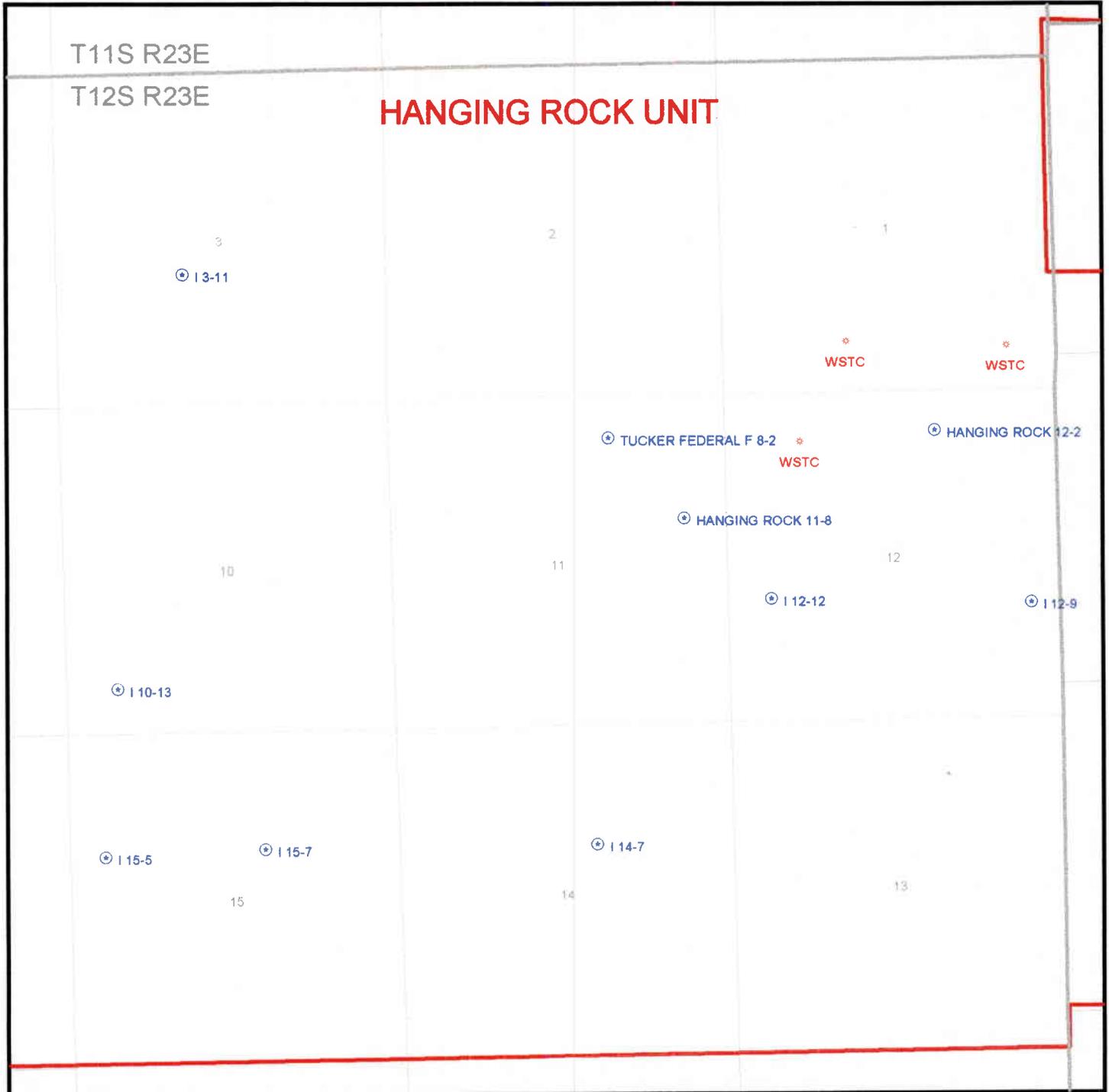
DIVISION OF OIL, GAS & MINING

OPERATOR: ROSEWOOD RESOURCES (N7510)

FIELD: UNDESIGNATED (002)

SEC. 3,10,12,14,15, TWP. 12S, RNG. 23E,

COUNTY: UINTAH UAC: R649-2-3 HANGING ROCK UINT



DATE PREPARED:  
6-APR-1998



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

April 9, 1998

Rosewood Resources, Inc.  
100 Crescent Court, Suite 500  
Dallas, Texas 75201

Re: Hanging Rock I 3-11 Well, 2172' FSL, 2025' FWL, NE SW,  
Sec. 3, T. 12 S., R. 23 E., Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33102.

Sincerely,

A handwritten signature in cursive script, appearing to read "John R. Baza".

for John R. Baza  
Associate Director

lwp

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Rosewood Resources, Inc.  
Well Name & Number: Hanging Rock I 3-11  
API Number: 43-047-33102  
Lease: UTU-57455  
Location: NE SW Sec. 3 T. 12 S. R. 23 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Dan Jarvis at (801) 538-5338 or John R. Baza at (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supercede the required federal approval which must be obtained prior to drilling.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

5. LEASE DESIGNATION AND SERIAL NO.  
**57455**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WORK

DRILL  DEEPEN  PLUG BACK

8. TYPE OF WELL

OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

7. UNIT AGREEMENT NAME

**Hanging Rock**

8. FARM OR LEASE NAME

2. NAME OF OPERATOR

**Rosewood Resources, Inc.**

9. WELL NO.

**13-11**

3. ADDRESS OF OPERATORS

**100 Crescent Court, Suite 500, Dallas TX 7520 214-871-5729**

10. FIELD OR LEASE NAME

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

at surface **2172' FSL, 2025' FWL, NE/SW Sec. 3, T12S, R23E, S.L. B. &M**  
At proposed prod. Zone

11. Sec., T., R., M., OR BLK AND SURVEY OR AREA

**Sec. 3, T12S, R23E, S.L. B. &M**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE

**26.7 miles south of Bonanza, UT**

12. COUNTY OR PARISH

**Uintah**

13. STATE

**Utah**

15. DISTANCE FROM PROPOSED LOC. TO NEAREST PROP. OR LEASE LINE, FT. (Also to nearest drig. Unit line, if any)

**2,025'**

16. NO. OF ACRES IN LEASE

**10,094.71**

17. NO. OF ACRES ASSIGNED TO THIS WELL

**40**

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

**4,500'**

19. PROPOSED DEPTH

**4,700'**

20. ROTARY OR CABLE TOOLS

**Rotary**

21. ELEVATION (SHOW WHETHER DF. RT. GR. etc.)

**6,315'**

22. APPROX. DATE WORK WILL START

**1-May-98**

**PROPOSED CASING AND CEMENT PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24	300'	To Surface
7 7/8"	4 1/2"	11.6	T.D.	Cmt top to cover oil shale

**Operator requests permission to drill the subject well please see the attached 10 point surface use plan.**

**If you require additional information please contact:**

**William (Bill) Ryan  
350 S. 800 E.  
Vernal, Utah  
435-789-0968 Office  
435-828-0968 Cellular**

RECEIVED  
MAR 23 1998

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

24

SIGNATURE

*William A. Ryan*  
**William A. Ryan**

TITLE

**Agent**

DATE

**3/11/98**

PERMIT NO.

APPROVAL DATE

APPROVED BY *Ronald B. ...*  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

**Assistant Field Manager  
Mineral Resources**

DATE

**5/15/98**

**CONDITIONS OF APPROVAL ATTACHED**

\*See Instructions on Reverse Side

Title 18 U. S. C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*DOGMA*

**CONDITIONS OF APPROVAL**  
**APPLICATION FOR PERMIT TO DRILL**

Company/Operator: Rosewood Resources, Inc.

Well Name & Number: Hanging Rock I 3-11

API Number: 43-047-33102

Lease Number: U - 57455

Location: NESW Sec. 03 T. 12S R. 23E

**NOTIFICATION REQUIREMENTS**

- |                                 |   |   |
|---------------------------------|---|---|
| Location Construction           | - | at least forty-eight (48) hours prior to construction of location and access roads.   |
| Location Completion             | - | prior to moving on the drilling rig.  |
| Spud Notice                     | - | at least twenty-four (24) hours prior to spudding the well.   |
| Casing String and Cementing     | - | at least twenty-four (24) hours prior to running casing and cementing all casing strings.   |
| BOP and Related Equipment Tests | - | at least twenty-four (24) hours prior to initiating pressure tests.   |
| First Production Notice         | - | within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days. |

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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 Orders, 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 the field representative to insure compliance.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

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

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **3M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Mahogany oil shale zone, identified at 1,310 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

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 not later than 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 (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

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

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

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

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO 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) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO 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 AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

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

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

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 on initial meter installations and at least quarterly thereafter. The AO 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 Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. 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.

"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 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

The APD approval is for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (435) 789-7077  
Petroleum Engineer

Wayne P. Bankert (435) 789-4170  
Petroleum Engineer

Jerry Kenczka (435) 781-1190  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

**SURFACE USE PROGRAM**  
**Conditions of Approval (COAs)**

-Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, (1989).

-The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, and crowning (2 to 3%). Graveling or capping the roadbed will be required as necessary to provide a well constructed safe road. Prior to construction/upgrading, the proposed road surface or existing road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Should mud holes develop, they shall be filled in to prevent detours. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. When snow is removed from the road during the winter months, the snow shall be pushed outside of the burrow ditches and the turn outs shall be kept clear so that when the snow melts the water will be channeled away from the road.

-The operator will control noxious weeds along rights-of-way for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is required that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.

-Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs).

-The location topsoil pile shall be windrowed between corner 2 and where the road enters the location. The pit topsoil shall be piled in a separate pile as shown on the cut sheet.

-The location topsoil pile shall be seeded immediately after the soil is piled by broadcasting the seed mix identified in the APD, then walking the topsoil pile with the dozer to plant the seed.

-Once the reserve pit is dry, it shall be filled, recontoured, topsoil spread, and seeded in the same manner discussed above.



ENGINEERING EVALUATION  
APPLICATION FOR PERMIT TO DRILL

OPERATOR: ROSEWOOD RESOURCES, INC. DEVELOPMENT X  
WELL NUMBER: Hanging Rock I 3-11 EXPLORATORY       
LOC.: QtrQtr. NESW Sec. 03 Twn. 12S Rng. 23E  
LEASE: U - 57455  
CA/UNIT NAME/NO.: Hanging Rock Unit  
COUNTY; Uintah STATE: UTAH MERIDIAN: SLB&M

BLOWOUT PREVENTION EQUIPMENT (BOPE) (ITEM 3)  
ABHP = 3000 PROJECTED TVD = 4700 Ft.

Operator's Gradient (ABHP/TVD) = .6383 PSI/FT **IS NOT** appropriate and **DOES NOT** coincide with the Anticipated Mud Weight (Item 6) for each drilled interval. The most credible ABHP is .4472 PSI/FT.

Rationale: **ABHP = TVD \* AMW \* 0.052 = 4700 \* 8.6 \* 0.052 = 2102**

ASP = ABHP - (0.22 \* TVD)  
ASP = 2102 - (0.22 \* 4700)

ASP = 1067 PSI

Operator's proposed BOPE of a 3 M system (Item 3) **EXCEEDS** the ASP and is therefore **ADEQUATE**.

Concerns: \_\_\_\_\_

CASING PROGRAM (ITEM 4)

STRING	SIZE	GRADE	#/FT.	CPL	Fj	Pc	Pi	LENGTH	WEIGHT	
SURFACE	8.625"	J-55	24.0	ST&C	244K	1370	2950	300'	7,200#	
INT	N/A									
INT	N/A									
PROD.	4.5"	J-55	11.6	ST&C	162K	4960	5350	4700'	54,520#	
PROD.	N/A									
	JOINT Fj/Wt		OK	COLLAPSE Pc/(MW*0.052*Ls)			OK	BURST Pi/BHP		OK
SURF.	<u>33.9=244K/7200</u>		OK	<u>10.2=1370/(8.6*0.052*300)</u>			OK	<u>1.40=2950/2102</u>		OK
INT.	____=____/____			____=____/(____*0.052*____)				____=____/____		
PROD.	<u>2.97=162K/54520</u>		OK	<u>2.4=4960/(8.6*0.052*4700)</u>			OK	<u>2.55=5350/2102</u>		OK
	1.6 DRY 1.8 BUOY			COLLAPSE = > 1.125			BURST = > 1.0			

Casing setting depths **ARE** across competent formations (see Items 1 & 2; Geologic Report) and therefore **ARE** appropriate. Casing design **IS** adequate.

Concerns: NONE

**CEMENTING PROGRAM (ITEM 5)**

	HOLE SIZE	CSG. SIZE	ANN. VOL.	SX CMNT.	YIELD	VOL. CMNT.	MAX CMNT. FILL-UP	EXPECTED FILL-UP	OK?
SURF.	11.00	8.625	76.26	150 G	1.16	174	surface	surface	OK
PROD.	7.875	4.5	1070.7	205 SG	3.91	1579	surface	surface	OK
				540 G	1.44				

All usable quality water prospectively valuable mineral and/or hydrocarbon zones as specified on the Geologic Report **ARE** adequately isolated and/or protected. See attached Cement Slurry and Calculated Fillup Worksheets. Concerns: **Because of lost circulation zones will require a cement top for the production casing 200 ft above the top of the Mahogany Oil Shale Zone to insure protection of the resources.**

**DRILLING FLUID (MUD) PROGRAM (ITEM 6)**

Proposed drilling fluid additives **ARE** nontoxic and compatible with formations likely to be encountered.

Concerns: **NONE**

**TESTING, LOGGING, & CORING PROCEDURES (ITEM 7)**

Adequate logs **ARE** proposed (See Geologic Report). Cement Bond evaluation tools **ARE** proposed across critical zones. Special Drill Stem Test operations **ARE not** proposed.

Concerns: \_\_\_\_\_

**CORRELATIVE RIGHTS**

This well **IS** drilled in conformance with a spacing pattern acceptable to the AO. Spacing Order **None - In Unit**

Concerns: **NONE**

**SPECIAL DRILLING OPERATIONS**

For Example: Air/Gas drilling - Hydrogen Sulfide - Directional/Horizontal Drilling.

Concerns: **N/A**

**MISCELLANEOUS**

Any other facets of the proposed operation (Item 9).

Concerns: **NONE**

**VARIANCES**

All Variances granted **MEET** or **EXCEED** the minimum standards of OOGO No. 2.

Concerns: **N/A**

**RECOMMENDATIONS**

**SEE ATTACHED CONDITIONS OF APPROVAL.**

SIGNATURE

Date April 23, 1998

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: ROSEWOOD RESOURCES

Well Name: HANGING ROCK FEDERAL I 3-11

Api No. 43-047-33102

Section 3 Township 12S Range 23E County UINTAH

Drilling Contractor \_\_\_\_\_

Rig # \_\_\_\_\_

SPUDDED:

Date 6/6/98

Time \_\_\_\_\_

How DRY HOLE

Drilling will commence \_\_\_\_\_

Reported by LUCY

Telephone # \_\_\_\_\_

Date: 6/17/98 Signed: JLT

✓

OPERATOR ROSEWOOD RESOURCES, INC.

OPERATOR ACCT. NO. 117510

ADDRESS P.O. Box 1668

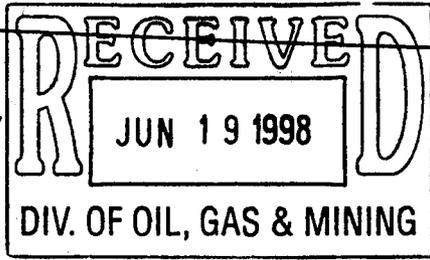
Vernal, UT 84078

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12133	4304733052	OIL SPRINGS #13	SWSE	5	12S	24E	Uintah	5/26/98	5/26/98
WELL 1 COMMENTS: Add to Oil Springs Unit / <i>wste B-GesZone</i> <span style="float: right;"><i>Entities added 6-23-98. lc</i></span>											
B	99999	12385	4304732852	HANGING ROCK H 25-13	SWSW	25	11S	23E	Uintah	5/30/98	5/30/98
WELL 2 COMMENTS: Add to Hanging Rock Unit / <i>Non P.A.</i> <b>CONFIDENTIAL</b>											
A	99999	12386	4304732993	TUCKER FEDERAL #8-2	NWNE	8	12S	24E	Uintah	5/29/98	5/29/98
WELL 3 COMMENTS: <b>CONFIDENTIAL</b>											
A	99999	12387	4304732856	CRUISER FEDERAL F 6-6	SENW	6	12S	24E	Uintah	6/5/98	6/5/98
WELL 4 COMMENTS: <b>CONFIDENTIAL</b>											
B	99999	12388	4304733102	HANGING ROCK I #3-11	NESW	3	12S	23E	Uintah	6/6/98	6/6/98
WELL 5 COMMENTS: Add to Hanging Rock Unit / <i>Non P.A.</i>											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)



*Lucy Neme*  
 Signature  
 Admin. Assistant 6/17/98  
 Title Date  
 Phone No. (435) 789-0414

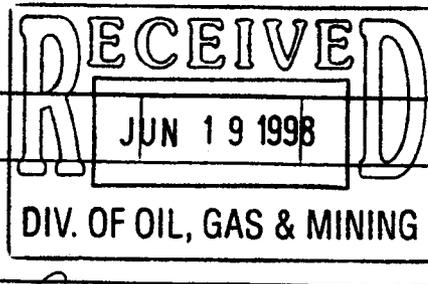
OPERATOR ROSEWOOD RESOURCES, INC.

OPERATOR ACCT. NO. N 7510

ADDRESS P.O. Box 1668

Vernal, UT 84078

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	12389	4304732855	HANGING ROCK FED I 1-4	NWNW	1	12S	23E	Uintah	5/25/98	5/25/98
WELL 1 COMMENTS: Add to Hanging Rock Unit / Non P.A. <b>CONFIDENTIAL</b>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											



- ACTION CODES (See instructions on back of form)
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(3/89)

Ruby Nemes  
Signature

Admin. Assistant 6/17/98  
Title Date

Phone No. (435) 789-0414

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
UTU-57455

6. If Indian, Allottee or Tribe Name  
NA

7. If Unit or CA, Agreement Designation  
HANGING ROCK

8. Well Name and No.  
HANGING ROCK I #3-11

9. API Well No.  
43-047-33102

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH CO., UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator  
ROSEWOOD RESOURCES, INC.

3. Address and Telephone No.  
P.O. Box 1668, Vernal, UT 435-789-0414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NE/SW SECTION 3, T12S, R23E

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Spud  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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

13. 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.)\*

Operator reports the above referenced well was spud on 6/6/98 @ 1:00p.m. by Bill Jr's Rathole Service.  
(See attached report for setting of surface casing.)

COPIES: ORIG. & 2-BLM; DIV. OG&M; J MCQUILLEN

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

Signed *Larry Nemes* Title Administrative Assistant Date 07/21/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:





UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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UINTAH CO., UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well

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ROSEWOOD RESOURCES, INC.

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P.O. Box 1668, Vernal, UT 435-789-0414

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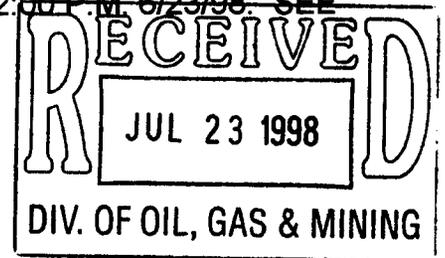
Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other WEEKLY STATUS  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

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WEEKLY STATUS - MIRU CHANDLER RIG #1 ON 6/15/98. DRILLED TO TD @5300'; RAN AND CEMENTED 4-1/2" CSG. CHANDLER RIG #1 WAS RELEASED @ 12:00 P.M. 6/23/98. SEE ATTACHED RIG REPORTS.

CURRENT STATUS - WAITING ON COMPLETION.



COPIES: ORIG. & 2-BLM; DIV. OG&M; J MCQUILLEN

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

Signed [Signature] Title Administrative Assistant Date 07/21/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

# ROSEWOOD RESOURCES, INC.

# DAILY DRILLING REPORT

LEASE: HANGING ROCK I  
 WELL: # 3-11  
 RIG: CHANDLER RIG #1  
 PRESENT OPERATION: DRILLING

DATE: 6-16-98

CURRENT DEPTH 1370'  
 PROPOSED TD 5300'  
 FOOTAGE PAST 24 HRS 859'  
 ENGINEER D.WIDNER  
 CONSULTANT C.EMERSON

FROM TO ACTIVITY PAST 24 HRS:

0700	1300	MIRU Chandler Rig #1. Notified J. Kinska w/ BLM @ 1600hrs 6-12-98
1300	1700	RU Double Jack Testing. Pressure Test Upper & Lower Kelly Valves, TIW Valve, Blind Rams, Pipe Rams, Kill Line & Valves, Choke Manifold & Valves ALL to 3000psi. Test Annular BOP and Surface Casing both to 1500 psi. BLM notified but declined to witness test. RD Double Jack.
1700	1730	Install Wear Ring In Casing Head.
1730	1830	PU BHA #1. Tag Baffle @ 470'
1830	1900	Rig Repair Stand Pipe
1900	2000	Drillout Baffle & Shoe to 526'
2000	2030	Drilling 526'-581'
2030	2100	Survey 3/4deg @ 520'
2100	0300	Drilling 581'-1074'
0300	0330	Survey 2deg @ 1013'
0330	0700	Drilling 1074'-1370'

MUD PROPERTIES:

WT	H2O	% OIL		Ca+ cake	
VIS		%SAND		pH	
WL		%SOLID		DAILY MUD COST	
HTHP		ALK		CUM. MUD COST	
PV		Cl-			
YP					

DAILY COSTS:

FOOTAGE	12326
DAYWORK	
LOCATION	4500
MUD	
RIG MOVE	11000
SURVEYOR	
LOGGING	
MUD LOG	550
CEMENTING	
FISHING	
WATER	2750
WELLHEAD	
CSG CREW	
RENTALS	1550
CASING	
SUPERVISION	500
CASING HEAD	2200

PUMP DATA:

	1	2
MAKE	EMSCO	GarDenv
MODEL	D-500	PZ-8
LINER	5 1/2"	6"
SPM		120
PSI		1000

HYDRAULICS:

WOB	35K
RPM	50
GPM	348

BIT RECORD:

	1	2
Bit #		
Ser#	M38606	
Size	7 7/8"	
Make	RTC/RR	
Type	HP51X	
Jets	3/12s	
In @	526'	
Out @		
Feet	844'	
Hrs	10	
Ft/Hr	84.4	
CUM		
Grade		

SURVEY DATA:

DEPTH	DEGREES
520'	3/4
1013'	2

TOTAL DAILY	35376
COST FORWARD	29640
CUM.TO DATE	65016

ADD'L COMMENTS: BHA#1:Bit,MM,XO,18-DC,XO=571.11'

Wasatch Top:

Mesa Verde Top:

SHOWS: #1 958'-960' 102 u #7 1212'-1227' 162u  
 #2 1132'-1134' 100 u #8 1230'-1236' 135u  
 #3 1140'-1143' 115u  
 #4 1161'- 1163' 104u  
 #5 1186'-1188' 106u  
 #6 1200'-1208' 174u

# ROSEWOOD RESOURCES, INC.

# DAILY DRILLING REPORT

LEASE: HANGING ROCK I  
 WELL: # 3-11  
 RIG: CHANDLER RIG #1  
 PRESENT OPERATION: Logging

DATE: 6-22-98

CURRENT DEPTH 5300'  
 PROPOSED TD 5300'  
 FOOTAGE PAST 24 HRS 45'  
 ENGINEER D.WIDNER  
 CONSULTANT C.EMERSON

FROM TO ACTIVITY PAST 24 HRS:

0700	1130	Drilling 5255'-5300'. TD @ 1130 hrs 6-21-98
1130	1300	Circ & Cond
1300	1400	Short Trip 10 Stands
1400	1500	Circ & Cond
1500	2100	TOOH Tight from 3555'-3490', 3150'-3088', 2525'-2494'. DP Tally 5310'
2100	2300	RU Schlumberger. Work Through Bridge @ 2200'. Log stopped @ 2852'.RD Schlumberger.
2300	0130	TIH Work through tight areas @ 2500', 3300', 3500'.
0130	0300	Circ & Cond
0300	0500	TOOH Tight @ 3025', 2994', 2962', 2463', 1627'.
0500	0700	RU Schlumberger. Log TD 5309' RUN Platform Express Suit.

MUD PROPERTIES:

WT	9.5+	% OIL	0	Ca+	40
VIS	51	%SAND	TR	cake	2/32
WL	7.8	%SOLID	8.4	pH	10
HTHP		ALK	.7	DAILY MUD COST	1415
PV	18	Cl-	700	CUM. MUD COST	13085
YP	14				

DAILY COSTS:

FOOTAGE	646
DAYWORK	5644
LOCATION	
MUD	1415
RIG MOVE	
SURVEYOR	
LOGGING	
MUD LOG	550
CEMENTING	
FISHING	
WATER	350
WELLHEAD	
CSG CREW	
RENTALS	500
CASING	
SUPERVISION	500
CASING HEAD	
TOTAL DAILY	9605
COST FORWARD	163171
CUM.TO DATE	172776

PUMP DATA:

	1	2
MAKE	EMSCO	GarDenv
MODEL	D-500	PZ-8
LINER	5 1/2"	6"
SPM		120
PSI		1100

HYDRAULICS:

WOB	10/18
RPM	50
GPM	348

BIT RECORD:

Bit #	1	2
Ser#	M38606	5984018
Size	7 7/8"	7 7/8"
Make	RTC/RR	STC
Type	HP51X	FM2565
Jets	3/12s	5/13s
In @	526'	2431'
Out @	2431'	5300'
Feet	1905'	2869
Hrs	23	101
Ft/Hr	82.8	28.4
CUM		
Grade		

SURVEY DATA:

DEPTH	DEGREES
520'	3/4
1013'	1
1505'	1
2028'	1 1/4
2370'	3/4
2870'	3/4
3366'	1 3/4
3862'	2
4354'	2 1/4
4840'	1 1/2
5300'	2 1/4

ADD'L COMMENTS: BHA#1:Bit,MM,XO,18-DC,XO=571.11'  
 Wasatch Top: 3060'  
 Mesa Verde Top: 4744'  
 SHOWS: #20 5233'-5235' 139u  
 #21 5287'-5290' 105u

# ROSEWOOD RESOURCES, INC.

# DAILY DRILLING REPORT

LEASE: HANGING ROCK I  
 WELL: # 3-11  
 RIG: CHANDLER RIG #1  
 PRESENT OPERATION: Wait On Cement

DATE: 6-23-98  
 CURRENT DEPTH 5300'  
 PROPOSED TD 5300'  
 FOOTAGE PAST 24 HRS \_\_\_\_\_  
 ENGINEER D.WIDNER  
 CONSULTANT C.EMERSON

FROM	TO	ACTIVITY PAST 24 HRS:
0700	1000	Finish Running Open Hole Logs RD Schlumberger
1000	1230	TIH
1230	1630	Circ & Cond Hole
1630	2100	RU T&M Casing Crew. LDDP & DC
2100	2400	RU & Run Prod Casing as follows: 1- 4 1/2" Float Shoe(.77'), 1- 4 1/2" Shoe Joint( Centralized Mid-Jt)(42.31'), 1- 4 1/2" Float Collar(.60'), 125- Jts 4 1/2" 11.6# M-65 LT&C 8rd Casing(37 Centralizers Every Other Jt To 2100') (5260.83'), Meas Above KB(2.00'). Total 126 Jts Csg Set @ 5302.51'KB. Float Collar @ 5258.83'. Tag @ 5309'
2400	0530	RD T&M. RU HOWCO. Circulate Casing.WO Replacement Bulk Truck.
0530	0630	Cement Casing as follows:Pump10bbl Mud Flush,10 bbl Fresh H2O Spacer w/dye,Lead Cement 330sks HOWCO- LITE(65/35 Pozmix) w/ 6% Gel+ 1%EX1+1/4#/sk FloCele+ 2% MicroBond+ 3% Salt. Tail Cement 560 sks Class "G" Cement w/ 0.3% CFR-3+ 1/4#/sk FloCele+ 0.5% Halad-9+ 2%Gel + 2% MicroBond + Super CBL. Displace w/ 81.5bbl Fresh H2O. Bump Plug @ 2400psi @ 0630hrs 6-23-98. Float Held OK. Full Returns During Job. Didn't Curculate Cement to Surface, but saw 6bbl dye from Spacer. Reciprocate Casing While Cementing. RD HOWCO.
0630	0800	ND BOP. Set Casing Hanger w/ 45K# On Slips. Cutoff.
0800	1200	Jet & Clean Pits.Chandler Rig #1 Released @ 1200hrs 6-23-98

**MUD PROPERTIES:**

WT	9.5+	% OIL	0	Ca+	40
VIS	51	%SAND	TR	cake	2/32
WL	7.8	%SOLID	8.4	pH	10
HTHP		ALK	.7	DAILY MUD COST	
PV	18	Cl-	700	CUM. MUD COST	13085
YP	14				

**DAILY COSTS:**

FOOTAGE	
DAYWORK	6450
LOCATION	
MUD	
RIG MOVE	
SURVEYOR	
LOGGING	18213
MUD LOG	550
CEMENTING	18401
FISHING	
WATER	550
FLOAT EQUIP	2150
CSG CREW	6773
RENTALS	500
CASING	25397
SUPERVISION	500
CASING HANGER	1750
TOTAL DAILY	81234
COST FORWARD	172776
CUM.TO DATE	254010

**PUMP DATA:**

	1	2
MAKE	EMSCO	GarDenv
MODEL	D-500	PZ-8
LINER	5 1/2"	6"
SPM		
PSI		

**HYDRAULICS:**

WOB	
RPM	
GPM	

**BIT RECORD:**

Bit #	1	2
Ser#	M38606	5984018
Size	7 7/8"	7 7/8"
Make	RTC/RR	STC
Type	HP51X	FM2565
Jets	3/12s	5/13s
In @	526'	2431'
Out @	2431'	5300'
Feet	1905'	2869'
Hrs	23	101
Ft/Hr	82.8	28.4
CUM		
Grade		

**SURVEY DATA:**

DEPTH	DEGREES
520'	3/4
1013'	1
1505'	1
2028'	1 1/4
2370'	3/4
2870'	3/4
3366'	1 3/4
3862'	2
4354'	2 1/4
4840'	1 1/2
5300'	2 1/4

**CASING DETAIL:**

1- 4 1/2" Float Shoe( Thread Lok'd)	.77'
1- 4 1/2" Shoe Joint(Centraliz'd Mid Jt)	42.31'
1- 4 1/2" Float Collar(ThreadLok'd)	.60'
125- 4 1/2" Casing 11.6# M-65 LT&C ( 37 Centralizers Every Other Collar)	5260.83'
	-2.00'
Total 126 Joints Casing Set @	5302.51' KB

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BUREAU OF LAND MANAGEMENT

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Expires: March 31, 1993

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7. If Unit or CA, Agreement Designation

HANGING ROCK

8. Well Name and No.

HANGING ROCK I #3-11

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TYPE OF ACTION

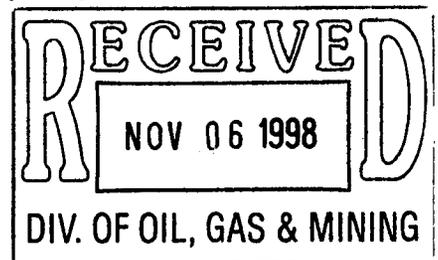
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13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Weekly Status - completion from 9/30 - 10/27/98 (See attached rig reports)

Current Status - SHUT IN



COPIES: ORIG. & 2-BLM; DIV. OG&M; J MCQUILLEN

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

Signed

*Lucy Nemer*

Title Administrative Assistant

Date 10/30/98

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of approval, if any:

**ROSEWOOD RESOURCES, INC. Daily Completion Report**

WELL NAME: HANGING ROCK #3-11

DATE: 7/13/98

DEPTH: 5300' 2750' - 2770'

PBTD 5259'

PERFS: 4916'-24'

4862' - 80'

3549'-56'

Lease #: UTU-57455

Location: NE/SW SEC.3,12S,R23E

County: Uintah Co., Utah

PACKER:

RBP:

CIBP: 4910' 4030' 3010'

Engineer D. Widner

EOT: SI - WAITING ON EVALUATION

Consultant T. THURSTON

7/11/98

R/U SCHLUMBERGER. RIH W/ GAUGE RING TO 5210'. RUN CEMENT BOND LOG FROM 5210' TO 200' W/ 1000# SURFACE PRESSURE. EST TOP OF CEMENT @ 640'. R/D WIRELINE. WAIT ON COMPLETION

Daily cost \$5,895 cum. cost \$259,905

10/15/98

MIRU POOL WELL SERVICE RIG #824, SPOT FRAC TANKS, SET PIPE RACKS, UNLOAD STRING OF 2 3/8" TBG. PU 3 7/8" ROCK BIT, 4 1/2" CSG. SCRAPER AND 169 JTS 2 3/8" TBG, TAGGED TD @ 5210', PULLED

Daily cost \$4,171 cum. cost \$264,076

10/16/98

CIRCULATED HOLE CLEAN W/ 74 BBLs 3% KCL, SHUT IN, TESTED TO 2500#, HELD OK. POOH W/ TBG. RU SCHLUMBERGER, PERFORATED INTERVAL 4916' TO 4924', 8'- 4 SPF, 32 HOLES W/ 3 1/2" HSD-UDP CSG GUN. NO SHOW AFTER PERFORATING. RAN WIRELINE SET ARROW SET-1X PKR W/ XN NIPPLE, SET AT 4890'. PU, RIH W/ RETRIVING HEAD, 1 JT TBG, X NIPPLE, AND 156 JTS TBG, SPACED OUT WITH 8' SUB, AND 2- 10' SUBS, LATCHED ON TO PKR, LANDED IN COMPRESSION, HUNG OFF IN WELL HEAD ON HANGER. RU SWAB, SWABBED TBG DOWN, MADE 30 MIN RUN, RECOVERED 50' OF WATER W/ A TRACE OF GAS. HOLE VOLUME 20 BBLs, RECOVERED 24 BBLs WATER. SION

Daily cost \$37,664 cum. cost \$301,740

10/17/98

THIS A.M., NO PSI, HAD A LIGHT BLOW. RU SWAB, RIH, FLUID LEVEL 2100' FROM SURFACE. RECOVERED 8 BBLs WATER FIRST RUN, 2ND RUN, WELL DRY. MADE 2- 30 MIN RUNS, RECOVERED 4.6 BBLs. MADE 8 MORE 30 MIN RUNS, COULD RECOVER 1 BBL WATER PER HOUR, W/ A TRACE OF GAS. TOTAL FLUID RECOVERED 18 BBLs. SHUT IN TILL MONDAY.

Daily cost \$4,082 cum. cost \$305,822

10/20/98

THIS A.M., NO PSI, HAD A LIGHT BLOW. RU, RIH W/ SWAB, FLUID LEVEL 500' FROM SURFACE, 2ND RUN FLUID LEVEL @ 3000', 3RD RUN WELL DRY. RECOVERED 19 BBLs WATER. MADE 30 MIN RUNS, COULD RECOVER 1 BBL WATER PER HOUR, W/ A TRACE OF GAS. TOTAL WATER RECOVERED TODAY, 21 BBLs. TOTAL WATER TO RECOVER WAS 20 BBLs. TOTAL WATER RECOVERED 63 BBLs. UNSET WIRELINE ARROW SET-1X PACKER, POOH. SION.

Daily cost \$2,975 cum. cost \$308,797

10/21/98

THIS A.M. SICP 0#, RU SCHLUMBERGER, SET CIBP @ 4910', BAILED 1 SX CEMENT ON TOP. LOADED HOLE, TESTED CIBP TO 2500#, HELD OK. PERFORATED INTERVAL 4862' TO 4880', 18' - 4 SPF, 72 HOLES W/ 3 1/2" HSD-UDP CSG. GUN. NO SHOW AFTER PERFORATING. PU, RIH W/ NOTCH COLLAR, XN NIPPLE, ARROW SET-1X PACKER, 1 JT TBG, AND X NIPPLE ON 154 JTS 2 3/8" TBG. SET PKR IN COMPRESSION, LANDED TBG ON HANGER @ 4808'. RU SWAB, SWABBED 3 HRS, RECOVERED 48 BBLs WATER, COULD NOT SWAB FLUID LEVEL BELOW 4200'. AFTER SWABBING DOWN, FLUID ENTRY 8 BBLs PER HOUR W/ TRACE OF GAS. TOTAL FLUID RECOVERED 58 BBLs. LOAD TO RECOVER WAS 19 BBLs, 39 BBLs OVER LOAD. SION.

Daily cost \$9,202 cum. cost \$317,999

10/22/98

THIS A.M. SITP 0#, HAD A SLIGHT BLOW ON TBG. MADE SWAB RUN, FLUID LEVEL @ SURFACE. SWABBED 5 HRS, COULD NOT SWAB DRY, LOWERED FLUID LEVEL TO 4200'. RECOVERED 57 BBLs OF FORMATION WATER. UNSET ARROW SET-1 PKR, POOH. SION.

Daily cost \$2,381 cum. cost \$320,380

10/23/98

THIS A.M. SICP 0#, FLUID LEVEL @ SURFACE. RU SCHLUMBERGER, SET CIBP @ 4030', 1 SX CMT ON TOP. PERFORATED INTERVAL 3549' TO 3556', 7' - 4 SPF, 28 HOLES W/ 3 1/2" HSD-UDP CSG GUN. NO SHOW AFTER PERFORATING. RIH W/ NOTCH COLLAR, XN NIPPLE, ARROW SET 1X PKR, 1 JT TBG, XN NIPPLE AND 111 JTS 2 3/8" TBG. LANDED PKR @ 3482', SET IN COMPRESSION, LANDED TBG ON HANGER @ 3482'. RU SWAB, SWABBED 4 HRS. FLUID LEVEL HOLDING @ 1100', RECOVERED 143 BBLs OF FORMATION WATER. UNSET PKR, POOH W/ TBG & TOOLS. SION.

Daily cost \$3,474 cum. cost \$323,854

10/24/98

THIS A.M. SICP 0#, FLUID LEVEL @ SURFACE. RU SCHLUMBERGER, SET CIBP @ 3300', BAILED 1 SX CMT ON TOP. TESTED TO 2500#, HELD OK. PERFORATED INTERVAL 3066' TO 3072' 6' - 4 SPF, 32 HOLES W/ 3 1/2" HSD-UDP CSG GUN. NO SHOW AFTER PERFORATING. PU, RIH W/ NOTCH COLLAR, XN NIPPLE, ARROW SET 1X PKR, 1 JT. TBG, X NIPPLE AND 96 JTS 2 3/8" TBG. SET PKR IN COMPRESSION, LANDED ON HANGER IN WELL HEAD @ 3010', XN NIPPLE @ 3018' & X NIPPLE @ 2979'. TESTED PKR TO 2500#, HELD OK. RU SWAB, SWABBED TBG DOWN, RECOVERED 14 BBLs LOAD WATER. LOADED HOLE W/ 3% KCL, PUMPED INTO PERFS @ 1500#, EST. RATE OF 3 BPM @ 1500#, ISIP 700# (FRAC GRAD. .67) LOADED HOLE W/ 14 BBLs KCL, EST. RATE W/ 2 BBLs, TOTAL LOAD TO RECOVER 16 BBLs. SWABBED FOR 3 HRS, FLUID LEVEL PULLED TO AND HOLDING @ 2600'. RECOVERED TOTAL OF 24 BBLs WATER, 8 BBLs OVER LOAD. COULD SWAB 4 BLS PER HOUR, HAD A SLIGHT TRACE OF GAS ON SWAB RUN. SION

Daily cost \$10,771 cum. cost \$334,625

10/26/98

THIS A.M. SITP 5#, RIH W/ SWAB, FLUID LEVEL @ 200'. SWABBED TBG DOWN TO 2600', COULD NOT SWAB DRY. COULD RECOVER 1 BBL WATER PER SWAB RUN. RECOVERED 14 BBLs FORMATION WATER W/ A SLIGHT TRACE OF GAS. HAVE RECOVERED TOTAL OF 22 BBLs FORMATION WATER. SION

Daily cost \$1,581 cum. cost \$336,186

**10/27/98**

THIS A.M. SITP 7#, RIH W/ SWAB, FLUID LEVEL @ 200'. SWABBED TBG DOWN TO 2600', RECOVERED 18 BBLS FORMATION WATER. RU SCHLUMBERGER, SET CIBP @ 3010', BAILED 1 SX CMT ON TOP OF PLUG. TESTED PLUG TO 2500#, HELD OK. PERFORATED INTERVAL 2750' TO 2770', 20' - 4 SPF, 80 HOLES W/ 3 1/2' HSD-UDP CSG GUN. NO SHOW AFTER PERFORATING. RIH W/ NOTCH COLLAR, XN NIPPLE, ARROW SET 1X PKR, 1 JT TBG, X NIPPLE AND 85 JTS 2 3/8" TBG. XN NIPPLE @ 2679', PKR @ 2671' AND X NIPPLE @ 2639'. SET PKR IN COMPRESSION, LANDED ON HANGER IN WELL HEAD. TESTED PKR TO 2500# HELD OK. RU SWAB, 12 BBLS LOAD WATER TO RECOVER. MADE 7 SWAB RUNS, RECOVERED 59 BBLS WATER, FLUID LEVEL HOLDING @ 1000' FROM SURFACE. RECOVERED 47 BBLS FORMATION WATER. SION

Daily cost \$8,583 cum. cost \$344,769

**10/28/98**

THIS A.M. SITP 0#, RIH W/ SWAB, FLUID LEVEL @ 800'. SWABBED FOR 4 HRS, RECOVERED 156 BBLS FORMATION WATER, NO GAS. FLUID LEVEL HOLDING @ 800'. UNSET ARROW SET-1X PKR, POOH LAYED DOWN TBG AND PKR. REMOVED BOP'S, NU WELL HEAD. RIG DOWN RIG, RACK OUT ALL EQUIPMENT. WILL MOVE TO ROSEWOOD FEDERAL #19-11 ON 10/28/98.

Daily cost \$2,818 cum. cost \$347,387

**10/29/98**

LOADED OUT ALL EQUIPMENT, MOVED RIG AND EQUIPMENT TO ROSEWOOD FEDERAL #19-11

Daily cost \$395 cum. cost \$347,782

**RECEIVED**  
 FEBRUARY 21 1998  
 (July 1992)  
**DEC 07 1998**

**SUBMIT IN DUPLICATE\*** FORM APPROVED  
 (See other instructions on reverse side) OMB NO. 1004-0137  
 Expires: February 28, 1995

**UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT**

**DIV. OF OIL, GAS & MINING WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

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

1b. TYPE OF WELL  
 NEW WELL  WORK OVER  WELL-EN  PLUG BACK  WELL RESVR  Other \_\_\_\_\_

7. UNIT AGREEMENT NAME  
**HANGING ROCK**

8. FARM OR LEASE NAME, WELL NO.  
**HANGING ROCK I #3-11**

2. NAME OF OPERATOR  
**ROSEWOOD RESOURCES, INC.**

9. API WELL NO.  
**43-047-33102**

3. ADDRESS AND TELEPHONE NO.  
**P.O. BOX 1668, VERNAL, UT 84078 435-789-0414**

10. FIELD AND POOL OR WILDCAT  
**WILDCAT**

4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\*  
 At Surface  
**2172' FSL 2025' FWL NE/SW NE/SW**  
 At top prod. Interval reported below

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**SEC. 3, T12S, R23E**  
**Block & Survey: S.L.B. & M**

14. PERMIT NO. DATE ISSUED  
 \_\_\_\_\_ 5/15/98

12. COUNTY OR PARISH UTAH 13. STATE UTAH

15. DATE SPUDDED 6/6/98 16. DATE T.D. REACHED 6/21/98 17. DATE COMPL. (Ready to prod.) 10/27/98 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6315' GR 19. ELEV. CASINGHEAD 6330' KB

20. TOTAL DEPTH, MD & TVD 5300' MD 21. PLUG, BACK T.D., MD & TVD CIBP @ 4910' CIBP @ 3300' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY → 24. ROTARY TOOLS 515' - 5300' 25. CABLE TOOLS NA

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**SI WSTC/BGH/CHD 12/14/98**

25. WAS DIRECTIONAL SURVEY MADE  
**NO**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**AI/LC/GR, CNLD/GR, ML/GR, MUD LOG, CBL 6-28-98**

27. WAS WELL CORED  
**NO**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8" J-55	36#	500' GL	12 1/4"	SURF-300 sx Class "G" + ADD + 100	NONE
4-1/2" M-65	11.6#	5302.51' KB	7 7/8"	640' - Lead w/330 sx Halcolite, Tail w/560	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None	#	

31. PERFORATION RECORD (Interval, size and number)

INTERVAL	SIZE	NUMBER
4916' - 24'	0.46	32
4862' - 80'	0.46	72
3549' - 56'	0.46	28
3066' - 72'	0.46	32
2750' - 70' PRODUCTION	0.46	80

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

DATE FIRST PRODUCTION SI PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) SI

DATE OF TEST 10-27-98 HOURS TESTED 4 CHOKE SIZE PROD'N. FOR TEST PERIOD → OIL-BBLS. 0 GAS-MCF. WATER-BBL. # 156 GAS-OIL RATIO

FLOW. TUBING PRESS. SITP 0# 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 WITNESSED BY Ivan Sadlier

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
 SIGNED Luz Yerman TITLE ADMINISTRATIVE ASSISTANT DATE 12/3/98

**(See Instructions and Spaces for Additional Data on Reverse Side)**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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);		38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				WASATCH MESA VERDE	3060' 4744'	

COPIES: BLM - VERNAL/ORIG. & 2 COPIES; DIV. OG&M - DALLAS 1 COPY;

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.  
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.  
**UTU-57455**

6. If Indian, Allottee or Tribe Name  
**NA**

7. If Unit or CA, Agreement Designation  
**HANGING ROCK**

8. Well Name and No.  
**HANGING ROCK I #3-11**

9. API Well No.  
**43-047-33102**

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**UINTAH CO., UTAH**

**SUBMIT IN TRIPLICATE**

**1. Type of Well**

Oil Well     Gas Well     Other

**2. Name of Operator**

**ROSEWOOD RESOURCES, INC.**

**3. Address and Telephone No.**

**P.O. Box 1668, Vernal, UT                      435-789-0414**

**4. Location of Well (Footage, Sec., T., R., M., or Survey Description)**

**NE/SW SECTION 3, T12S, R23E**

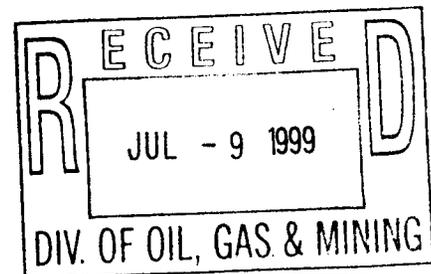
**12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent  <input checked="" type="checkbox"/> Subsequent Report  <input type="checkbox"/> Final Abandonment Notice	<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other _____ (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water

**13. 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.)\***

The above mentioned well was P&A'd on 6/28/99. See attached rig report for details on the plugging.

STATUS - P&A



COPIES: ORIG. & 2-BLM; DIV. OG&M; J MCQUILLEN

**14. I hereby certify that the foregoing is true and correct**

Signed *Lucy Neman* Title Administrative Assistant Date 07/02/99

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*See Instructions on Reverse Side**

# ROSEWOOD RESOURCES, INC.

DAILY WORKOVER REPORT

DATE 6/29/99

PROSPECT <b>HANGING ROCK "I"</b>	WELL NAME & NUMBER <b>#3-11</b>	SEC. <b>3</b>	TWP. <b>12S</b>	RNG. <b>23E</b>	COUNTY <b>UINTAH</b>	STATE <b>UTAH</b>
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PBTD	TODAYS OPERATION <b>RDMO WORKOVER RIG</b>					
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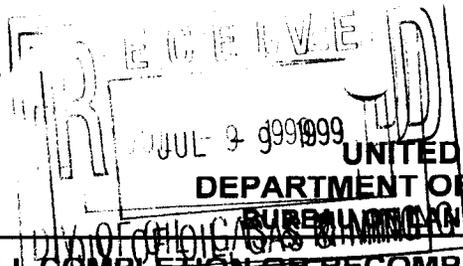
DAYS <b>1</b>	PERFS	TBG	PKR / ANCHOR	CSG <b>4 1/2" @ 5303'</b>	CONTRACTOR <b>K&amp;S RIG #1</b>
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YESTERDAYS OPERATIONS

MIRU K&S WELL SERVICE RIG #1. N/D WELLHEAD & N/U BOP'S. R/U SCHLUMBERGER. RIH & SET CIBP @ 2710'. RIH W/ DUMP BAILER & SPOT 35' CEMENT ON PLUG. RIH W/ 3 3/8" CSG GUN & PERFORATE 4 HOLES @ 626'. R/D WIRELINE. R/U HALLIBURTON. PUMP 60 BBLS FRESH WATER DOWN CSG & INTO PERFS. AVG 3 BPM @ 1200#. WELL WOULDN'T CIRCULATE. PUMP DOWN 4 1/2" & 9 5/8" CSG ANNULUS. PUMPED 6 BBLS & PRESSURED TO 2800#. RELEASE PRESSURE. RIH W/ 21 JTS 2 3/8" TBG TO 644'. MIX & PUMP 20sx CEMENT PLUG FROM 644' TO 400'. POOH & LAY DOWN TBG. R/U WIRELINE TRUCK. RIH W/ 3 3/8" CSG GUN & PERFORATE 4 HOLES @ 100'. R/D WIRELINE. R/U PUMP TRUCK. BREAK CIRCULATION W/ 2 BBLS FRESH WATER. MIX & PUMP 50sx CEMENT. CIRCULATE CEMENT TO SURFACE. N/D BOP'S & TUBINGHEAD. CLEAN UP & R/D HALLIBURTON. SDFN \*BLM REPRESENTATIVE RAY ARNOLD WITNESSED ALL PLUGGING PROCEDURES.

COST DETAIL	Daily	Cumulative	COST DETAIL	Daily	Cumulative
LOCATIONS & ROADS			CASING		
RIG	1995	1,995	TUBING		
DOWNHOLE EQUIPMENT			WELLHEAD		
WATER	1000	1000	PRODUCTION EQUIPMENT		
TANKS			HOT OILER		
SUPERVISION	500	500	SNUBBING UNIT & N2		
BOP RENTAL	175	175	SLICKLINE		
WIRELINE	3490	3,490	FISHING TOOLS & OPER.		
TRUCKING			ROSEWOOD RENTAL		
TREATMENT			COMPLETION COSTS		11,690
SURF. EQUIP. RENTAL			DRILLING COSTS		
CEMENT	4530	4530	TOTAL COSTS	11,690	11,690

WELL SITE REPRESENTATIVE <b>SALTY MILLER</b>	DATE <b>6-29-99 TUESDAY</b>
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**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SUBMIT IN DUPLICATE\***  
(See other instructions on reverse side)

**FORM APPROVED**  
OMB NO. 1004-0137  
Expires: February 28, 1995

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\***

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

**1b. TYPE OF WELL**  
 NEW WELL  WORK OVER  DEEP-EN  FLOOR BACK  WIRE RESVR.  Other **P & A'd**

**5. LEASE DESIGNATION AND SERIAL NO.**  
**UTU-57455**

**7. UNIT AGREEMENT NAME**  
**HANGING ROCK**

**8. FARM OR LEASE NAME, WELL NO.**  
**HANGING ROCK I #3-11**

**2. NAME OF OPERATOR**  
**ROSEWOOD RESOURCES, INC.**

**3. ADDRESS AND TELEPHONE NO.**  
**P.O. BOX 1668, VERNAL, UT 84078 435-789-0414**

**9. API WELL NO.**  
**43-047-33102**

**10. FIELD AND POOL OR WILDCAT**  
**WILDCAT**

**4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\***  
 At Surface  
**2172' FSL 2025' FWL NE/SW NE/SW**  
 At top prod. Interval reported below

**11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA**  
**SEC. 3, T12S, R23E**  
**Block & Survey: S.L.B. & M**

**14. PERMIT NO.** \_\_\_\_\_ **DATE ISSUED**  
**5/15/98**

**12. COUNTY OR PARISH**  
**UINTAH**

**13. STATE**  
**UTAH**

<b>15. DATE SPUDDED</b> 6/6/98	<b>16. DATE T.D. REACHED</b> 6/21/98	<b>17. DATE COMPL. (Ready to prod.)</b> P&A'd 6/28/99	<b>18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*</b> 6315' GR	<b>19. ELEV. CASINGHEAD</b> 6330' KB
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<b>20. TOTAL DEPTH, MD &amp; TVD</b> 5300' MD TVD	<b>21. PLUG, BACK T.D., MD &amp; TVD</b>	<b>22. IF MULTIPLE COMPL., HOW MANY*</b>	<b>23. INTERVALS DRILLED BY</b> →	<b>ROTARY TOOLS</b> 515' - 5300'	<b>CABLE TOOLS</b> NA
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**24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\***  
**P&A'd**

**25. WAS DIRECTIONAL SURVEY MADE**  
**NO**

**26. TYPE ELECTRIC AND OTHER LOGS RUN**  
**AI/LC/GR, CNLD/GR, ML/GR, MUD LOG, CBL**

**27. WAS WELL CORED**  
**NO**

**23. CASING RECORD (Report all strings set in well)**

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
9-5/8" J-55	36#	500' GL	12 1/4"	SURF-300 sx Class "G" + ADD + 100	NONE
				sx "G"	
4-1/2" M-65	11.6#	5302.51' KB	7 7/8"	640' - Lead w/330 sx Halcolite, Tail w/560	
				sx "G"	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					None	#	

31. PERFORATION RECORD (Interval, size and number)	INTERVAL	SIZE	NUMBER	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
				DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
See page 2 for plugging details					

**PRODUCTION**

<b>DATE FIRST PRODUCTION</b> P&A'd	<b>PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)</b>				<b>WELL STATUS (Producing or shut-in)</b> SI
<b>DATE OF TEST</b>	<b>HOURS TESTED</b>	<b>CHOKE SIZE</b>	<b>PROD'N. FOR TEST PERIOD</b> →	<b>OIL--BBL.</b>	<b>GAS--MCF.</b>
					<b>WATER--BBL.</b> #
<b>FLOW, TUBING PRESS.</b>	<b>CASING PRESSURE</b>	<b>CALCULATED 24-HOUR RATE</b> →	<b>OIL--BBL.</b>	<b>GAS--MCF.</b>	<b>WATER--BBL.</b>
					<b>OIL GRAVITY-API (CORR.)</b>

**34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)** \_\_\_\_\_ **TEST WITNESSED BY** \_\_\_\_\_

**35. LIST OF ATTACHMENTS** \_\_\_\_\_

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

SIGNED Lisa Neme TITLE ADMINISTRATIVE ASSISTANT DATE 7/3/99

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TRUE VERT. DEPTH
WASATCH	3060'	
MESA VERDE	4744'	

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