

Form 3160-3  
(November 1983)  
(formerly 9-131C)

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

Form approved.  
Budget Bureau No. 1004-0126  
Expires August 31, 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

2. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

3. NAME OF OPERATOR  
 Chandler & Associates, Inc.

4. ADDRESS OF OPERATOR  
 555 Seventeenth Street (303)295-0400  
 Anaconda Tower, Suite 1850 Denver, Colorado 80202

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 1989' FNL 1848 FWL (SE 1/4 NW 1/4)  
 At proposed prod. zone  
 Same

6. LEASE DESIGNATION AND SERIAL NO.  
 U-65735

7. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

8. UNIT AGREEMENT NAME  
 N/A

9. FARM OR LEASE NAME  
 East Coyote Federal

10. WELL NO.  
 #6-9-8-25

11. FIELD AND POOL OR WILDCAT  
 East Coyote Federal

12. SEC., T., R., M., OR B.L.M. AND SURVEY OR AREA  
 Sec. 9, T8S, R25E

13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 See Topo Map "A"

14. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drier, unit line, if any)  
 669'

15. NO. OF ACRES IN LEASE  
 1680

16. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

17. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLICABLE FOR, ON THIS LEASE, FT.  
 2800' ±

18. PROPOSED DEPTH  
 4261'

19. ROTARY OR CABLE TOOL  
 Rotary

20. ELEVATIONS (Show whether D.F., H.L., G.L., etc.)  
 5442 GR.

21. APPROX. DATE WORK WILL START\*  
 A.S.A.P.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'	(see attached drilling plan)
7 7/8"	5 1/2"	15.5#	4261'	(see attached drilling plan)

- M.I.R.U.
- Drill to T.D. 4261'
- Run 5 1/2" casing if commercial production is indicated
- If dry hole, well will be plugged and abandoned as instructed by B.L.M.
- Well will be drilled with fresh water to 3900' then chem gel mud to T.D. mud will be in place to run 5 1/2" casing.

I hereby certify that I am responsible by the terms and conditions of the lease to conduct lease operations. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Chandler & Associates, Inc., B.L.M. Bond #2396118, with Reichart Silversmith.

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

SIGNED Todd McDonald TITLE Petroleum Engineer DATE 3-21-94

PERMIT NO. 43-047-32490 APPROVAL DATE 4-28-94

APPROVED BY [Signature] TITLE [Signature] WELL R-649-3-2-2

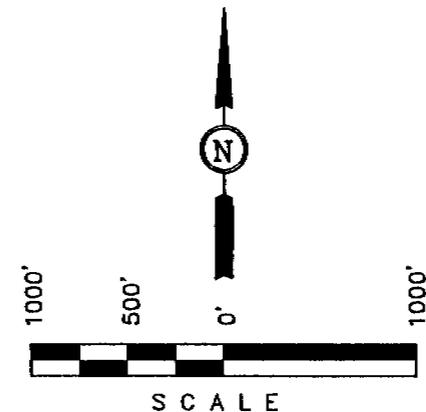
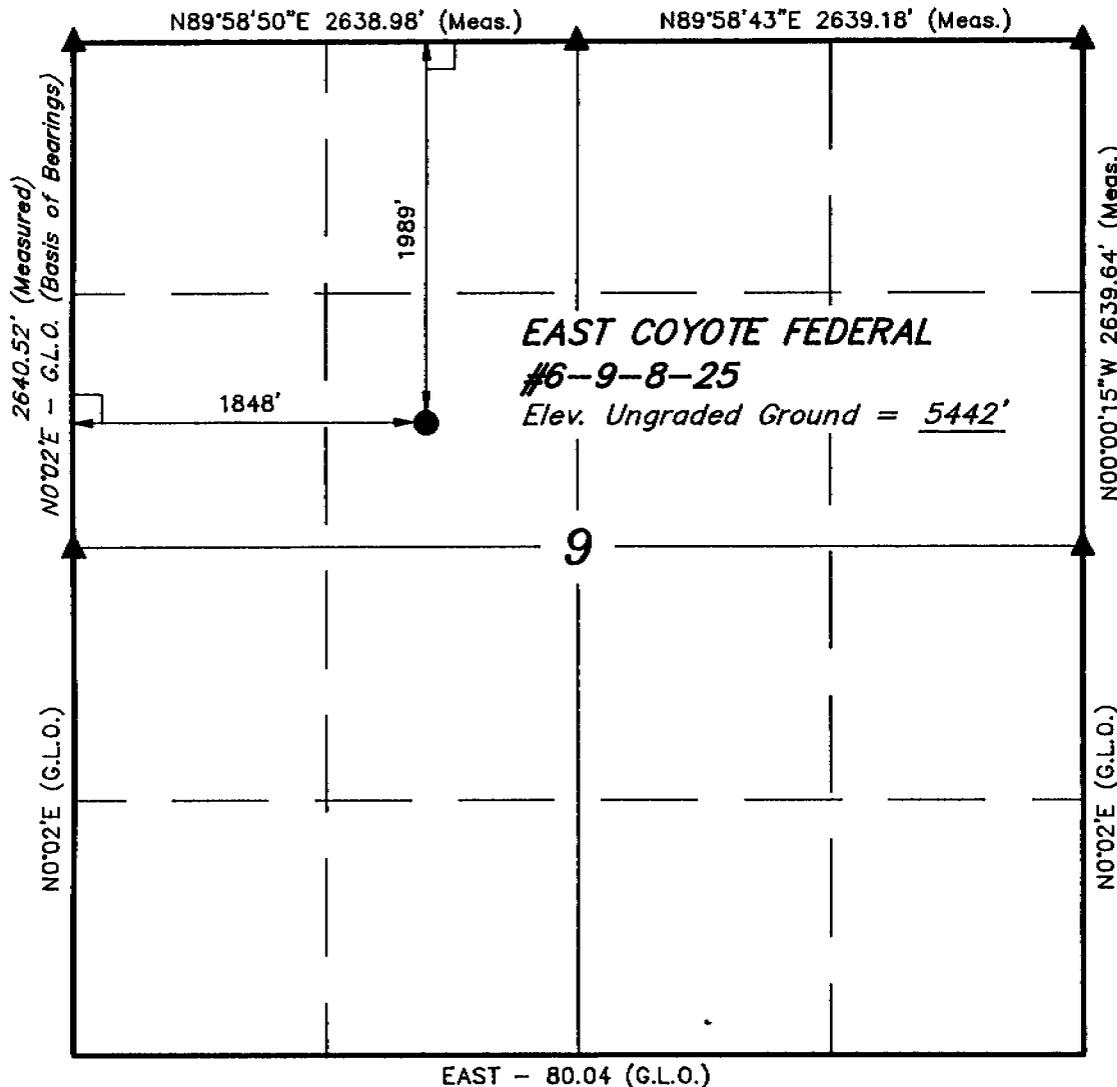
# T8S, R25E, S.L.B.&M.

CHANDLER & ASSOCIATES, INC.

Well location, EAST COYOTE FEDERAL #6-9-8-25, located as shown in the SE 1/4 NW 1/4 of Section 9, T8S, R25E, S.L.B.&M. Uintah County, Utah.

## BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 4, T8S, R25E, S.L.B.&M. TAKEN FROM THE DINOSAUR QUADRANGLE, UTAH-COLORADO, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5509 FEET.



## 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.

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 5709  
 STATE OF UTAH

### LEGEND:

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

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 3-9-94	DATE DRAWN: 3-14-94
PARTY L.D.T. D.A. J.F. J.R.S.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE CHANDLER & ASSOCIATES, INC.	

**CHANDLER & ASSOCIATES, INC.  
DRILLING PLAN FOR THE  
EAST COYOTE FEDERAL #6-9-8-25**

I. DRILLING PLAN:

1. Geological Surface Formation: Uintah

2. Estimated Tops:

<u>Name</u>	<u>Top</u>	<u>Prod. Phase Anticipated</u>
Green River	1415'	
X Marker	3060'	
Y Marker	3475'	
Z Marker	3831'	
Oil Zone	4016'	Oil
Wasatch	4217'	
TD	4261'	

3. CASING PROGRAM:

	<u>Depth</u>	<u>Hole Size</u>	<u>Csq. Size</u>	<u>Type</u>	<u>Weight</u>
Surface	350'	12-1/4"	8-5/8"	K-55	24#/ft
Prod.	4261'	7-7/8"	5-1/2"	K-55	15.5#/ft

4. Operator's Specification for Pressure Control Equipment:

- A. 2,000 psi W.P. Double Gate BOP or Single Gate BOP (Schematic attached).
- B. Functional test daily.
- C. All casing strings shall be pressure-tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.
- D. All ram-type preventers and related control equipment shall be tested at the rated working pressure of the stack assembly or at 70 percent of the minimum internal yield pressure of the casing, whichever is less. Tests shall be done at the time of installation, prior to drilling out, and weekly. All tests shall be for a period of 15 minutes.

**Chandler & Associates, Inc.**  
**East Coyote Federal #6-9-8-25**

5. Auxiliary Equipment:

- A. Kelly Cock - yes.
- B. Float at the bit - no.
- C. Monitoring equipment on the mud system - visually.
- D. Full opening safety valve on rig floor - yes.
- E. Rotating head - no. (\* yes - see below)
- F. The blooie line shall be a least 6" in diameter and extend at least 100' from the wellbore into the reserve/blooie pit. (\* see below)
- G. Blooie line ignition shall be provided by a continuous pilot (ignited when drilling below 500'). (\* see below)
- H. Compressor shall be tied directly to the blooie line through a manifold. (\* see below)
- I. A mistor with a continuous stream of water shall be installed near the end of the blooie lines for dust suppression. (\* see below)

6. Proposed Circulating Medium:

<u>Depth</u>	<u>Mud Type</u>	<u>Density (lb./gal)</u>	<u>Viscosity</u>	<u>Water Loss</u>
0'-350'	Fresh Water with LCM	8.4	30	No control
350'-3900'	Fresh Water with LCM	8.4 - 8.6	30-35	No control
3900'-TD	Chem Gel Mud	8.8	30-35	10 cc or less

\* Because of potential severe lost circulation in this area a portion of this hole may have to be drilled with aerated fluid and the blooie pit will be utilized.

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7. Testing, Logging, and Coring Program:

- A. Cores - None anticipated.
- B. DST - 1 anticipated.
- C. Logging - DIL-GR (TD to surface).  
CNL/Litho Density (base of surface to TD)  
Mud Logger (base of surface to TD)
- D. Formation and Completion Interval: Green River interval, final determination of completion will be made by analysis of logs.  
Stimulation - Stimulation will be designed for the particular area of interest as encountered.
- E. Frac gradient - approximately .80 psi/ft.

8. Cementing Program:

<u>Casing</u>	<u>Volume</u>	<u>Type &amp; Additives</u>
Surface	265 sx	Class "G" w/2% CaCl <sub>2</sub> 1/4#/sk cello seal (based on 100% access)
Production	630 sx *	330 sx Super "G" containing 47#/sk Class "G" plus 20#/sk Poz"A" plus 17#/sk CSE plus 3% salt plus 2% Gel followed by 300 sx Class "G" containing 0.15% WR-15 (Retarder)

Cement Characteristics:

Class "G" - yeild = 1.18 cu.ft. per. sack  
weight = 15.8 lb./gal  
strength = 3200 psi in 72 hrs @ 135 degrees

Super "G" - yeild = 2.76 cu.ft. per. sack  
weight = 11.08 lb./gal  
strength = 630 psi in 72 hrs @ 135 degrees

\* Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to surface.

**Chandler & Associates, Inc.**  
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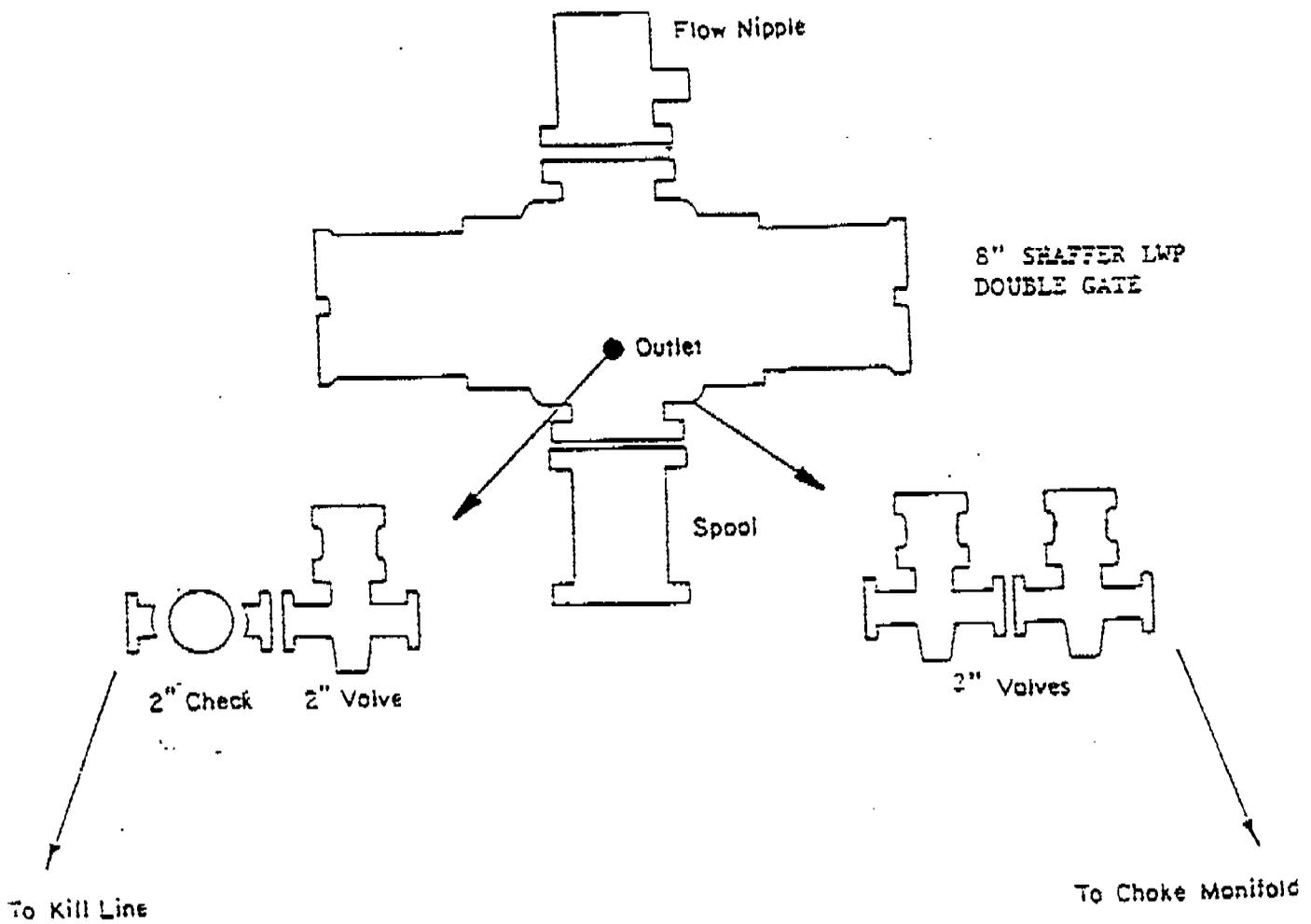
A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

9. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards:

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 1,600 psi (calculated at 0.398 psi/ft) and maximum anticipated surface pressure equals approximately 716 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

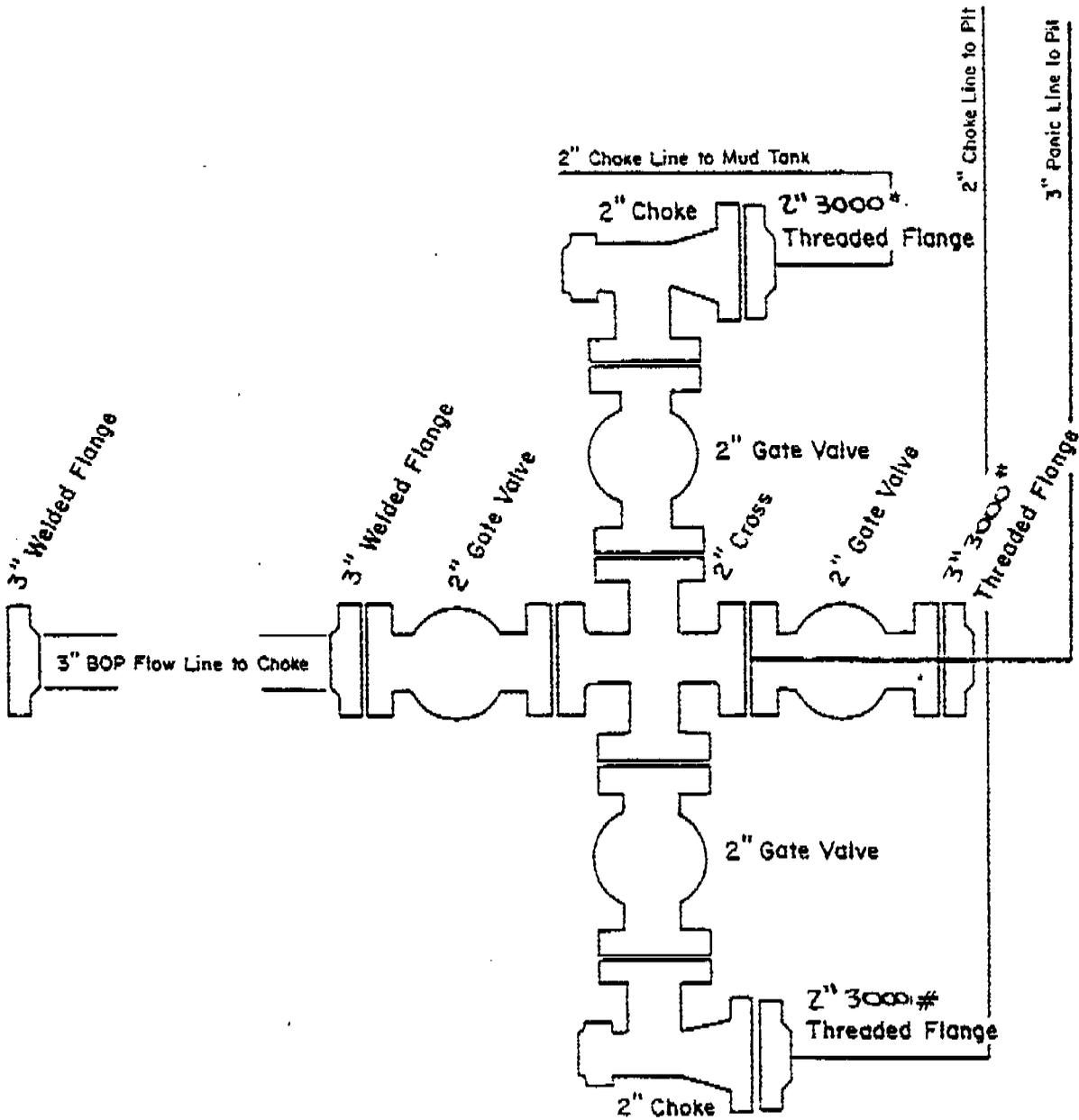
# CHANDLER DRILLING

RIG NO.7



# CHANDLER DRILLING

RIG NO.7



**II. SURFACE USE PLAN  
CHANDLER & ASSOCIATES, INC.  
EAST COYOTE FEDERAL #6-9-8-25**

1. Existing Road:

- A. Topo Map "A" is the vicinity map, showing the access routes from Vernal, Utah.
- B. Topo Map "B" shows the proposed access road to each individual well. It also shows existing roads in the immediate area.
- C. The existing and proposed access road, unless otherwise stated, shall be crowned, ditched, and dipped from the nearest improved road.
- D. Occasional maintenance blading and storm repairs will keep roads in good condition.
- E. There shall be no mud blading on the access road. Vehicles may be towed through the mud provided they stay on the roadway.
- F. Application for off lease road right-of-way is hereby requested for the portion of road which is shown on attached Topo Map "B". (Highlighted)

2. Planned Access Roads:

The proposed access road, will be crowned, ditched, and dipped.

- A. Maximum grade will be 8% or less, unless otherwise stated.
- B. No turnouts will be required.
- C. Low water crossings to be placed in Proposed Access road during drilling process and culverts may be installed at a later date.
- D. Road surface material will be that native to the area. (except for bottom of low water crossings were a more appropriate material shall be used).

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- E. No cattleguard will be required.
- F. The proposed access road was flagged at the time the location was staked.
- G. The Vernal District Area Manager will be contacted at least 24 hours prior to commencing construction of the access road and well pad.
- H. The backslopes of the proposed access roads will be no steeper than vertical or 1/4:1 in rock; and 2:1, elsewhere.

The operator or his contractor will notify the BLM office in Vernal, Utah (phone #(801)789-1362) at least 48 hours prior to commencement of any work on these locations, roadways, or pipelines.

3. Location of Existing Wells:

See Topo Map "C".

4. Location of Existing and/or Proposed Facilities:

- A. All Petroleum Production Facilities are to be contained within the proposed location sites.
- B. In the event that production of these wells is established, the following will be shown:
  - 1. Proposed location and attendant lines, by flagging, if off well pad.
  - 2. Dimensions of facilities.
  - 3. Construction methods and materials.

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- C. The area used to contain the proposed production facilities will be built using native materials. If these materials are not acceptable, then other arrangements will be made to acquire them from private sources. These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.
  - D. All permanent facilities placed on the locations shall be painted Desert Tan to blend with the natural environment.
  - E. A dike shall be constructed around the tank battery, of sufficient capacity to adequately contain at least 110 percent of the storage capacity of the largest tank within the dike.
  - F. All buried pipelines shall be covered to a depth of 3 feet except at road crossings where they shall be covered to a depth of 4 feet.
  - G. Construction width of the right-of way/pipeline route shall be restricted to 50 feet of disturbance.
  - H. Pipeline location warning signs shall be installed within 90 days upon completion of construction.
5. Location and Type of Water Supply:

Water to be used for the drilling of these wells will be hauled by truck over the roads described in item #1 and item #2, from the Vernal City water supply - A-1 Tank Rental permit #53617-43-8496 - (which is approximately 37 miles northwest of the proposed locations). However in coordination with the B.L.M., Fish and Wildlife and or any other regulatory body a closer source will be sought out. If found a sundry notice and permit will be executed stating such source prior to drilling.

No water wells are to be drilled.

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6. Source of Construction Materials:

- A. No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from a local gravel pit over existing access roads from the area. No special access other than for drilling operations and pipeline construction is needed.
- B. All access roads crossing Federal Land are described under item #2 and shown on Map #1.

All Construction material for these location sites and access roads shall be borrow material accumulated during the construction of the location sites and access roads. No additional construction material from other sources is anticipated at this time, but if it is required, the appropriate actions will be taken to acquire it from private sources.

- C. All surface disturbance area is on BLM lands

7. Methods for Handling Waste Disposal:

- A. Drill cuttings will be buried in the reserve pit when covered.
- B. Drilling fluids will be contained in the reserve pit.
- C. Any hydrocarbon liquids produced while production testing will be contained in a test tank. Any unavoidable spills of oil or other adverse substances or materials will be removed immediately during drilling progress or during completion operations.
- D. Portable chemical toilets will be provided and serviced by a local commercial sanitary service.

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- E. Garbage and trash will be collected in a trash cage and its contents hauled to a sanitary landfill.

All wastes caused by the construction activities shall be promptly removed and disposed of in a sanitary landfill or as directed by the authorized officer.

- F. Prior to commencement of drilling, the reserve pit will be fenced on three sides using three strands of barbed wire. When drilling activities are completed it will be fenced on the fourth side and allowed to dry (if liquids are present). After drying, the fences will be removed and the pit shall be buried. Reclamation will be undertaken no later than the fall of the year after all drilling activity has ceased.

8. Ancillary Facilities:

No air strips, camps, or other living facilities will be built off the location. Housing and office trailers will be on the location as seen on the location layout.

9. Well Site Layout:

- A. See attached cutsheet.
- B. The Vernal District Area Manager will be contacted at least 24 hours prior to commencing construction of the access road and well pad.
- C. The authorized officer will determine after the location is constructed whether the pit is to be lined, and if so, the type of material to be used.
- D. Topsoil shall be stripped to a depth of 4 to 6 inches and stockpiled as shown on the location layout plat.
- E. The backslopes of the locations will be no steeper than vertical or 1/4:1 in rock, and 2:1 elsewhere.
- F. The upper edges of all cut banks on the access roads and well pads will be rounded.

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10. Plans for Restoration:

- A. Immediately upon completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.
- B. Before any dirt work to restore the location takes place, the reserve pit must be completely dry. The reserve pit will be reclaimed within 90 days from the date of well completion.
- C. The Vernal District Area Manager shall be notified at least 48 hours prior to commencing reclamation work.
- D. All disturbed areas will be seeded with the following mixture:

Seed Mixture #2

<u>Species</u>	<u>Lbs. PLS/Acre</u>
Western Wheatgrass (Rosanna)	2
Crested Wheatgrass (Fairway or Hycrest)	3
Fourwing Saltbrush (Wytana/Rincon)	6
Yellow Sweet Clover	1

- E. The seed bed will be prepared by disking, following the natural contour. Drill seed on contour at a depth no greater than 1/2 inch. In areas that cannot be drilled, the seed will be broadcast at double the seeding rate and harrowed into soil. Certified seed is recommended.
- F. Fall seeding will be completed after September, and prior to prolonged ground frost.
- G. If the well is a producer, access roads will be upgraded and maintained as necessary to prevent soil erosion, and accommodate year round traffic. Areas unnecessary to operations will be reshaped, topsoil distributed, and seed distributed according to the above mixtures. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

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- H. If the well is abandoned or is a dry hole, the access road and location will be restored to approximate the original contours. During reclamation of the site the fill material will be pushed into cuts and up over the backslope. No depressions will be left that would trap water or form ponds. Topsoil will be distributed evenly over the location and seeded according to the above mixture. The access road and the location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.
- I. Annual or noxious weeds shall be controlled on all disturbed areas as directed by the White River Resource Area Manager. Method of control shall be by an approved mechanical method or an Environmental Protection Agency (EPA) registered herbicide. All herbicide application proposals must be approved by the B.L.M. Application proposals must be approved by the B.L.M. Application of herbicides must be under direct field supervision of an EPA certified pesticide applicator.

11. Other Information:

- A. The area is used by man for the primary purpose of grazing domestic livestock.

All activity shall cease when soils or road surfaces become saturated to a depth of three inches, unless otherwise approved by the Authorized Officer.

If any fossils are discovered during construction, the operator shall cease construction immediately and notify the Authorized Officer so as to determine the significance of the discovery.

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**East Coyote Federal #6-9-8-25**

- B. A Class III cultural resource inventory shall be completed prior to disturbance by a qualified professional Archaeologist.
- C. The United States of America considers the development of groundwater resources to be necessary and frequently indispensable to effective land management. Therefore, any groundwater intercepted by the party conducting mineral exploration shall be reported to the District Manager immediately including approximate quantities and a sample in a sealed quart container. The United States shall have the first opportunity to file State water rights for the intercepted groundwater. The undersigned may file for water rights only with a written waiver from the District Manager.
- D. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:  
  
whether the materials appear eligible for the National Register of Historic Places;  
the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary);  
and a timeframe for the AO to complete an expedited review under 36 CFR 800-11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

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If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, an operator will then be allowed to resume construction.

E. Construction & Drilling activities shall cease on or before May 15 and may begin again on June 21 of each calendar year due to Antelope Kidding.

12. Lessee's or Operator's Representative:

Mr. Todd McDonald  
Petroleum Engineer  
Chandler & Associates, Inc.  
555 Seventeenth Street  
Anaconda Tower, Suite 1850  
Denver, Colorado 80202  
Telephone #(303)295-0400

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite(s) and access route(s); that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by **Chandler & Associates, Inc.**, and its contractors and subcontractors in conformity with the plan and the terms and conditions under which it is approved.

This statement is subject to the provision of 18 U.S.C. 1001 for the filing of a false statement.

3-21-94

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Todd McDonald

CHANDLER & ASSOCIATES, INC.

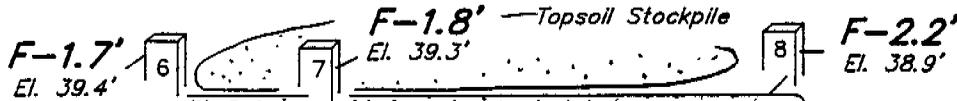
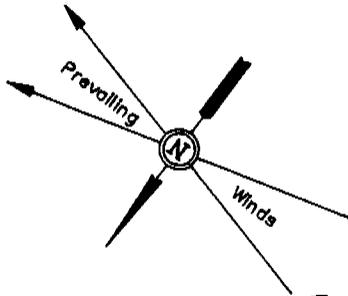
LOCATION LAYOUT FOR

EAST COYOTE FEDERAL #6-9-8-25

SECTION 9, T8S, R25E, S.L.B.&M.

1989' FNL 1848' FWL

*R. Kay*



Sta. 3+25

Approx. Toe of Fill Slope

SCALE: 1" = 50'  
 DATE: 3-14-94  
 Drawn By: J.R.S.  
 Revised: 3-19-94 T.D.H.

FLARE PIT



NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

Pit Capacity With 2' of Freeboard is ±4,480 Bbls.

C-0.9' El. 42.0'

El. 42.6'  
 C-9.5' (btm. pit)

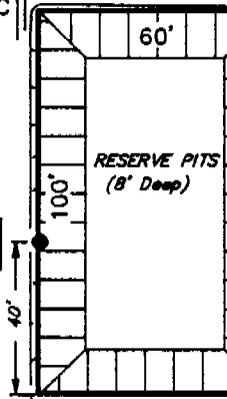
C-1.0' El. 42.1'

F-0.1' El. 41.0'

Sta. 1+50

Topsoil Stockpile

El. 43.8'  
 C-10.7' (btm. pit)



Reserve Pit Backfill & Spoils Stockpile

Approx. Top of Cut Slope

El. 44.3'  
 C-3.2'

C-2.9' El. 44.0'

C-1.4' El. 42.5'

Sta. 0+00

Proposed Access Road

Elev. Ungraded Ground at Location Stake = 5442.1'

Elev. Graded Ground at Location Stake = 5441.1'

# CHANDLER & ASSOCIATES, INC.

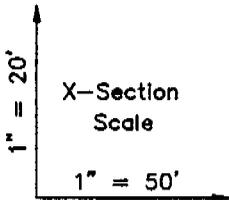
## LOCATION LAYOUT FOR

EAST COYOTE FEDERAL #6-9-8-25

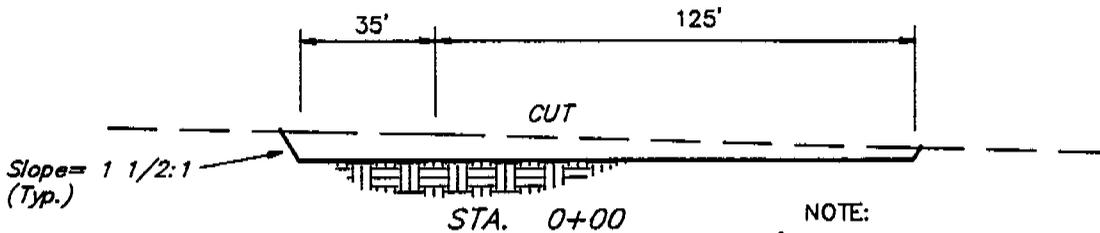
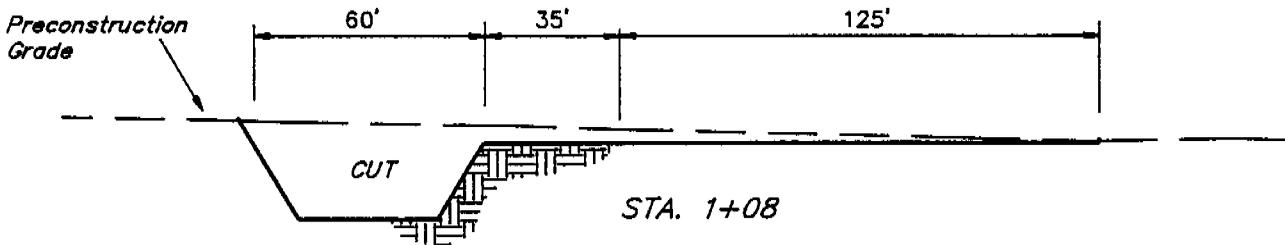
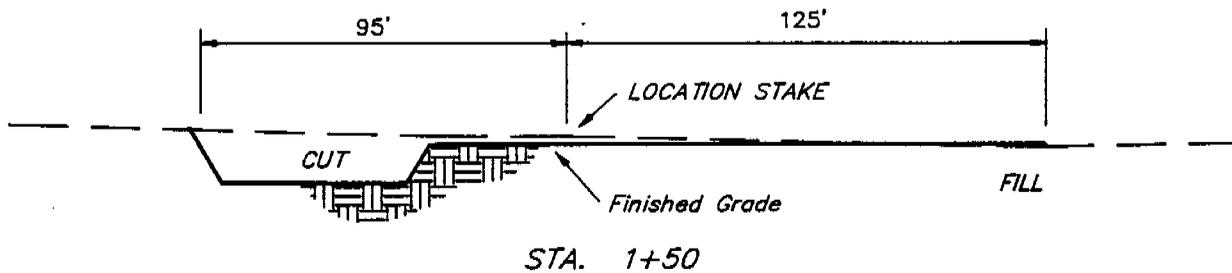
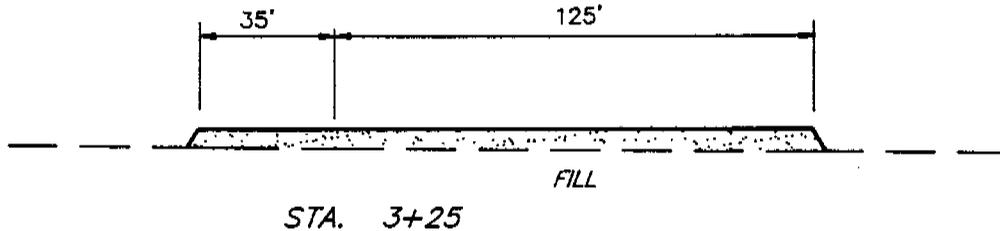
SECTION 9, T8S, R25E, S.L.B.&M.

1989' FNL 1848' FWL

*R. Kay*



DATE: 3-14-94  
Drawn By: J.R.S.  
Revised: 3-19-94 T.D.H.

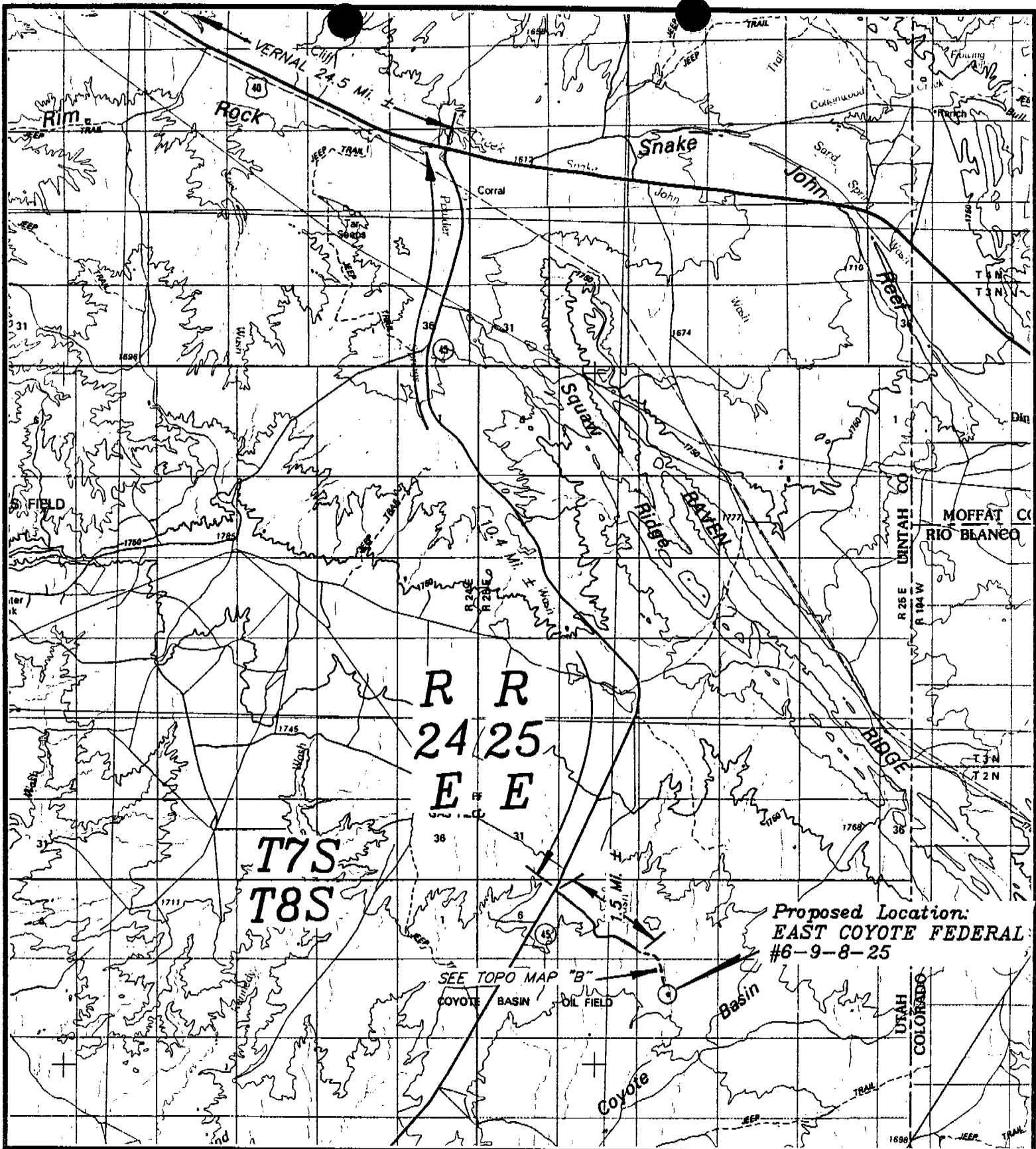


NOTE:  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,070 Cu. Yds.
Remaining Location	=	2,340 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>3,410 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>1,410 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	1,930 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	1,700 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	230 Cu. Yds.



R R  
24 25  
E E

T7S  
T8S

Proposed Location:  
EAST COYOTE FEDERAL  
#6-9-8-25

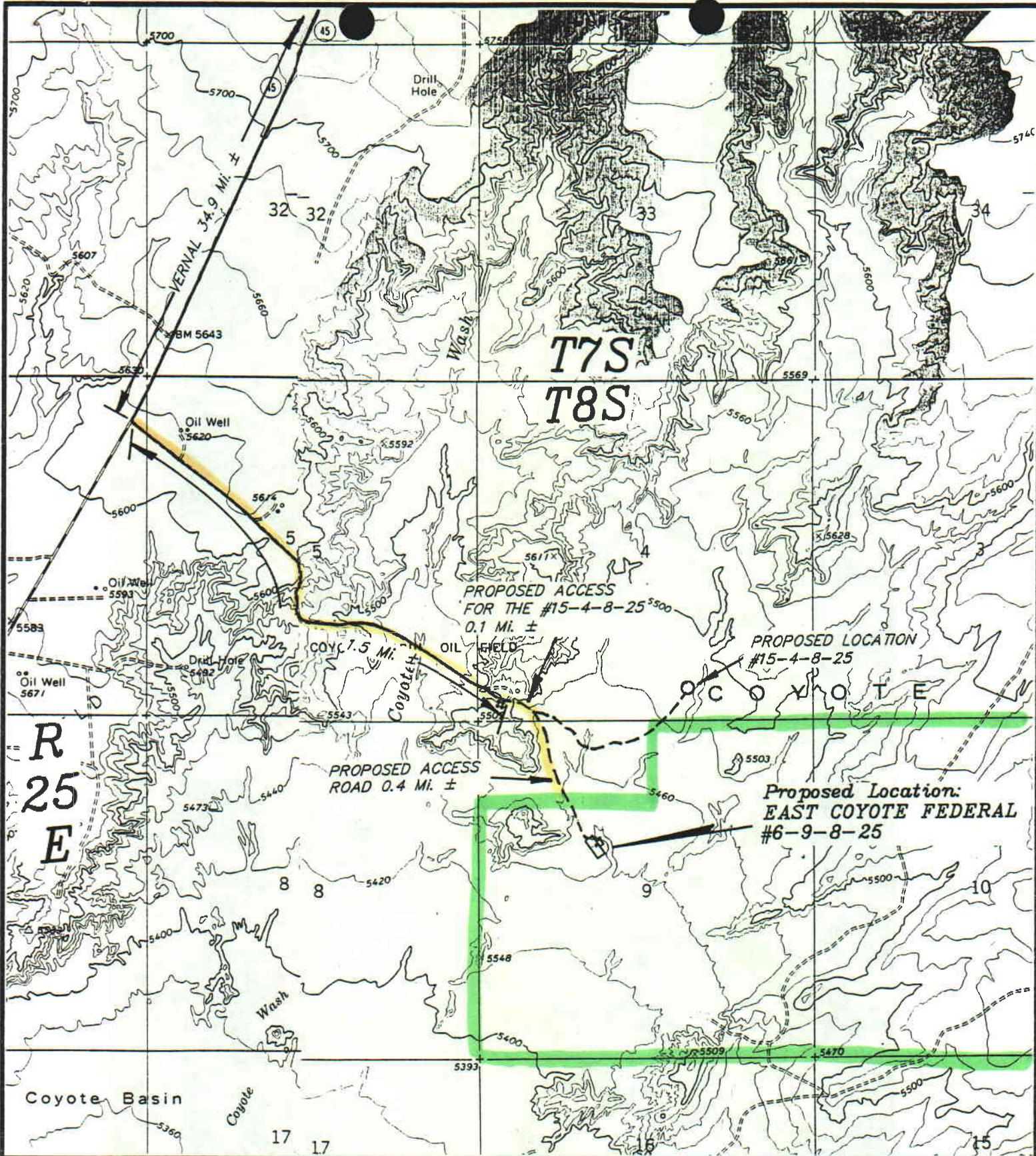
SEE TOPO MAP "B"  
COYOTE BASIN OIL FIELD

TOPOGRAPHIC  
MAP "A"

DATE: 3-15-94 C.B.T.



CHANDLER & ASSOCIATES, INC.  
EAST COYOTE FEDERAL #6-9-8-25  
SECTION 9, T8S, R25E, S.L.B.&M.  
1989' FNL 1848' FWL



Proposed R.O.W.
  Lease Boundary

TOPOGRAPHIC

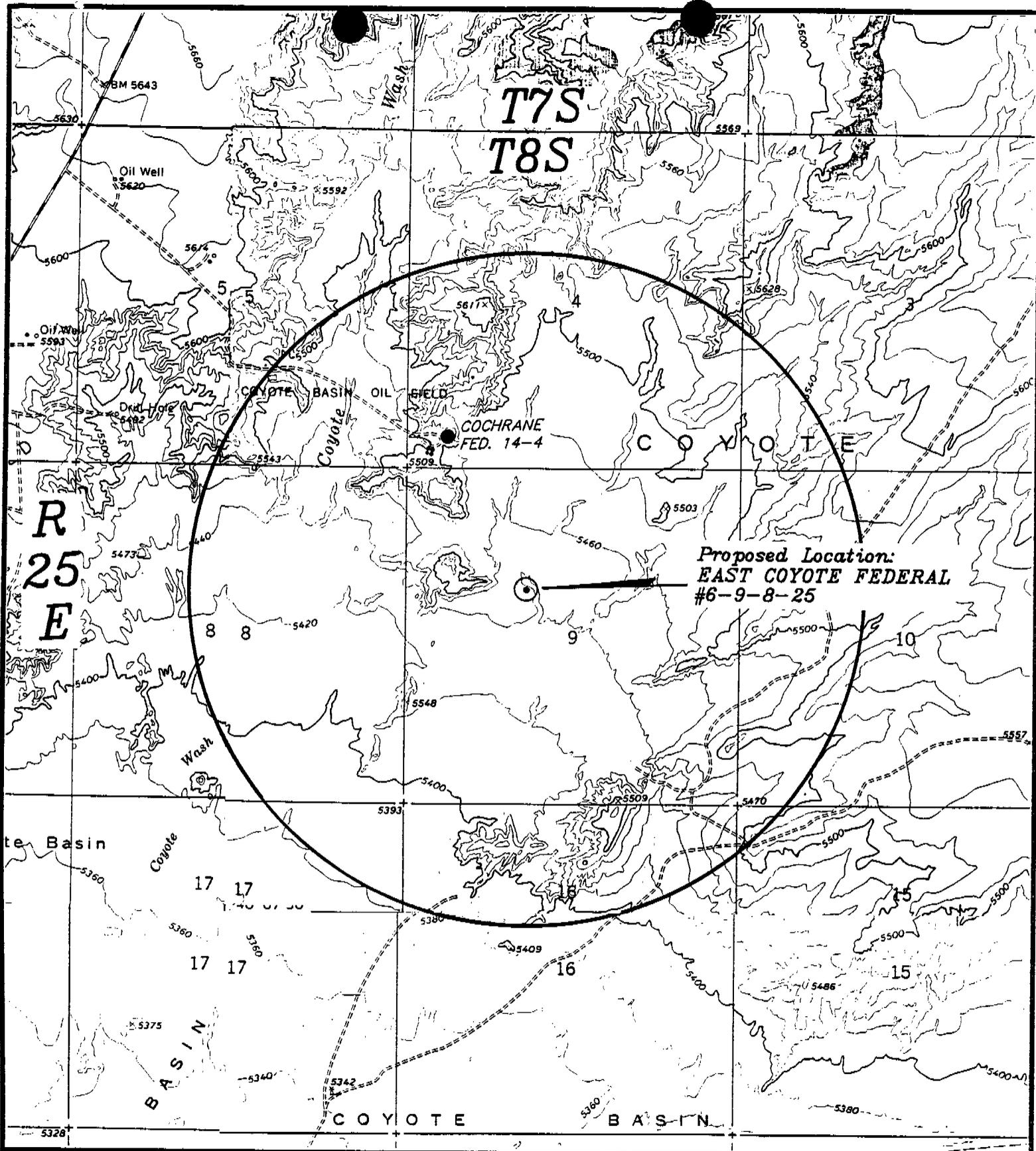
MAP "B"

SCALE: 1" = 2000'  
 DATE: 3-15-94 D.J.S.



CHANDLER & ASSOCIATES, INC.

EAST COYOTE FEDERAL #6-9-8-25  
 SECTION 9, T8S, R25E, S.L.B.&M.  
 1989' FNL 1848' FWL



**LEGEND:**

- ⊙ = Water Wells
- ◆ = Abandoned Wells
- = Temporarily Abandoned Wells
- ⊘ = Disposal Wells
- = Drilling Wells
- = Producing Wells
- = Shut-in Wells



**CHANDLER & ASSOCIATES, INC.**

EAST COYOTE FEDERAL #6-9-8-25  
SECTION 9, T8S, R25E, S.L.B.&M.  
1989' FNL 1848' FWL

**TOPO MAP "C"**

DATE: 3-15-94 D.J.S.

BEFORE THE OIL AND GAS CONSERVATION BOARD

DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH

---

IN THE MATTER OF THE APPLI-	:	
CATION OF THE SHAMROCK OIL	:	<u>FINDINGS OF FACT.</u>
& GAS CORPORATION FOR AN	:	
ORDER ESTABLISHING DRILLING	:	<u>CONCLUSIONS AND ORDER</u>
UNITS FOR THE COYOTE BASIN	:	
FIELD, UTAH COUNTY, UTAH,	:	✓ <u>CAUSE NO. 129-1</u>
AS TO THE KNOWN PRODUCING	:	
ZONES OF THE GREEN RIVER FOR-	:	
MATION.	:	

---

THIS CAUSE came on regularly for hearing before this Board at 11:00 a.m., Wednesday, September 13, 1967, in the offices of the Board of Oil and Gas Conservation, 348 East South Temple, Suite 301, Salt Lake City, Utah, upon the application of The Shamrock Oil & Gas Corporation.

The following Commissioners were present: Delbert M. Draper Jr., Chairman, C. F. Henderson, G. N. Cardon, R. R. Norman, W. D. Yardley.

Hugh C. Garner, attorney, Salt Lake City, Utah, appeared on behalf of Applicant, The Shamrock Oil & Gas Corporation.

Also present were C. B. Feight and Paul W. Burchell, Division of Oil and Gas Conservation, and Rodney Smith, District Engineer, United States Geological Survey, Salt Lake City, Utah.

Mr. Burke Isbell, Geologist, The Shamrock Oil & Gas Corporation, was qualified and received as an expert witness. His testimony, which was not challenged, described the leasehold ownership pattern within the Coyote Basin Field, the location of oil wells drilled therein, the geology of the Coyote Basin

Field, and correlation between various wells of producing zones in the Green River Formation in demonstration that common accumulations of oil in said known producing zones constituted a pool or pools underlying said lands.

Mr. Curtis O'Rear, Senior Petroleum Engineer, The Shamrock Oil & Gas Corporation, was qualified and received as an expert witness. His testimony, which was not challenged, described the monthly oil production, in barrels, from the Coyote Basin Field, Uintah County, Utah, from wells drilled by said Applicant, The Shamrock Oil & Gas Corporation, and completion costs. In addition, Mr. O'Rear testified with respect to the economics of the development of said Coyote Basin Field on the basis of eighty acre spacing units, the efficiency of such spacing units in effecting the optimum recovery of oil therefrom.

From the testimony adduced at said hearing and from the records and files in this case, which are made a part hereof by reference, this Board now makes the following Findings of Fact and Conclusions, together with its Order herein:

#### FINDINGS OF FACT

This Board finds that:

1. Due notice of the time, place and purpose of the hearing has been given in all respects as required by law; proof of the publication of such notice in the Salt Lake Tribune, a newspaper of general circulation in the city of Salt Lake, County of Salt Lake, Utah, and the Vernal Express, Vernal, Utah, the only newspaper of general circulation in Uintah County, Utah, is on file with the Board.

6. There is available, at this time, sufficient geologic information to demonstrate that the area involved is a stratigraphic trap and that the several sand lenses identified as the upper and lower sands in the Douglas Creek member of the Green River Formation, which are productive of oil, can be generally correlated over the area and appear to be continuous in nature.

#### CONCLUSIONS

This Board concludes that it is feasible at this time to establish drilling and spacing units of an approximate eighty (80) acres in size covering the lands heretofore described, that one well will adequately and sufficiently drain, in accordance with good conservation practice, the oil recoverable from the known producing zones of the Green River Formation underlying eighty (80) acres of the spacing area and, by so doing, avoid the drilling of unnecessary wells, prevent waste and protect correlative rights.

#### ORDER

It is therefore ordered by this Board that:

1. Drilling and spacing units of an approximate eighty <sup>80</sup> (80) acres be and the same are hereby established for the production of oil from the Green River Formation under those lands hereinabove more particularly described.
2. The eighty (80) acre drilling and spacing units (approximate) shall be and the same are formed and designated as follows:

Drilling  
Unit No.

Description of  
Drilling Unit

Drilling  
Unit No.

Description of  
Drilling Unit

T. 7 S., R. 25 E., SIM

1 Sec. 33: E<sub>1</sub>SE<sub>4</sub>  
 2 Sec. 33: W<sub>1</sub>SE<sub>4</sub>  
 3 Sec. 33: E<sub>1</sub>SW<sub>4</sub>  
 4 Sec. 33: W<sub>1</sub>SW<sub>4</sub>  
 5 Sec. 32: E<sub>1</sub>SE<sub>4</sub>  
 6 Sec. 32: W<sub>1</sub>SE<sub>4</sub>  
 7 Sec. 32: E<sub>1</sub>SW<sub>4</sub>  
 8 Sec. 32: W<sub>1</sub>SW<sub>4</sub>  
 9 Sec. 31: E<sub>1</sub>SE<sub>4</sub>  
 10 Sec. 31: W<sub>1</sub>SE<sub>4</sub>  
 11 Sec. 31: E<sub>1</sub>SW<sub>4</sub>  
 12 Sec. 31: W<sub>1</sub>SW<sub>4</sub>

T. 8 S., R. 24 E., SIM

13 Sec. 1: W<sub>1</sub>NE<sub>4</sub>  
 14 Sec. 1: E<sub>1</sub>NE<sub>4</sub>

T. 8 S., R. 25 E., SIM

15 Sec. 6: W<sub>1</sub>SW<sub>4</sub>  
 16 Sec. 6: E<sub>1</sub>SW<sub>4</sub>  
 17 Sec. 6: W<sub>1</sub>NE<sub>4</sub>  
 18 Sec. 6: E<sub>1</sub>NE<sub>4</sub>  
 19 Sec. 5: W<sub>1</sub>SW<sub>4</sub>  
 20 Sec. 5: E<sub>1</sub>SW<sub>4</sub>  
 21 Sec. 5: W<sub>1</sub>NE<sub>4</sub>  
 22 Sec. 5: E<sub>1</sub>NE<sub>4</sub>  
 23 Sec. 4: W<sub>1</sub>SW<sub>4</sub>  
 24 Sec. 4: E<sub>1</sub>SW<sub>4</sub>  
 25 Sec. 4: W<sub>1</sub>NE<sub>4</sub>  
 26 Sec. 4: E<sub>1</sub>NE<sub>4</sub>  
 27 Sec. 4: E<sub>1</sub>SE<sub>4</sub>  
 28 Sec. 4: W<sub>1</sub>SE<sub>4</sub>  
 29 Sec. 4: E<sub>1</sub>SW<sub>4</sub>  
 30 Sec. 4: W<sub>1</sub>SW<sub>4</sub>  
 31 Sec. 5: E<sub>1</sub>SE<sub>4</sub>  
 32 Sec. 5: W<sub>1</sub>SE<sub>4</sub>  
 33 Sec. 5: E<sub>1</sub>SW<sub>4</sub>  
 34 Sec. 5: W<sub>1</sub>SW<sub>4</sub>  
 35 Sec. 6: E<sub>1</sub>SW<sub>4</sub>  
 36 Sec. 6: W<sub>1</sub>SW<sub>4</sub>  
 37 Sec. 6: E<sub>1</sub>SW<sub>4</sub>  
 38 Sec. 6: W<sub>1</sub>SW<sub>4</sub>

T. 8 S., R. 24 E., SIM

39 Sec. 1: E<sub>1</sub>SE<sub>4</sub>  
 40 Sec. 1: W<sub>1</sub>SE<sub>4</sub>  
 41 Sec. 1: E<sub>1</sub>SW<sub>4</sub>

✓ T. 8 S., R. 24 E., SIM

42 Sec. 1: W<sub>1</sub>SW<sub>4</sub>  
 43 Sec. 12: W<sub>1</sub>SW<sub>4</sub>  
 44 Sec. 12: E<sub>1</sub>SW<sub>4</sub>  
 45 Sec. 12: W<sub>1</sub>NE<sub>4</sub>  
 46 Sec. 12: E<sub>1</sub>NE<sub>4</sub>

T. 8 S., R. 25 E., SIM

47 Sec. 7: W<sub>1</sub>SW<sub>4</sub>  
 48 Sec. 7: E<sub>1</sub>SW<sub>4</sub>  
 49 Sec. 7: W<sub>1</sub>NE<sub>4</sub>  
 50 Sec. 7: E<sub>1</sub>NE<sub>4</sub>  
 51 Sec. 8: W<sub>1</sub>SW<sub>4</sub>  
 52 Sec. 8: E<sub>1</sub>SW<sub>4</sub>  
 53 Sec. 8: W<sub>1</sub>NE<sub>4</sub>  
 54 Sec. 8: E<sub>1</sub>NE<sub>4</sub>  
 55 Sec. 9: W<sub>1</sub>SW<sub>4</sub>  
 56 Sec. 9: E<sub>1</sub>SW<sub>4</sub>  
 57 Sec. 9: W<sub>1</sub>NE<sub>4</sub>  
 58 Sec. 9: E<sub>1</sub>NE<sub>4</sub>  
 59 Sec. 9: E<sub>1</sub>SE<sub>4</sub>  
 60 Sec. 9: W<sub>1</sub>SE<sub>4</sub>  
 61 Sec. 9: E<sub>1</sub>SW<sub>4</sub>  
 62 Sec. 9: W<sub>1</sub>SW<sub>4</sub>  
 63 Sec. 8: E<sub>1</sub>SE<sub>4</sub>  
 64 Sec. 8: W<sub>1</sub>SE<sub>4</sub>  
 65 Sec. 8: E<sub>1</sub>SW<sub>4</sub>  
 66 Sec. 8: W<sub>1</sub>SW<sub>4</sub>  
 67 Sec. 7: E<sub>1</sub>SE<sub>4</sub>  
 68 Sec. 7: W<sub>1</sub>SE<sub>4</sub>  
 69 Sec. 7: E<sub>1</sub>SW<sub>4</sub>  
 70 Sec. 7: W<sub>1</sub>SW<sub>4</sub>

T. 8 S., R. 24 E., SIM

71 Sec. 12: E<sub>1</sub>SE<sub>4</sub>  
 72 Sec. 12: W<sub>1</sub>SE<sub>4</sub>  
 73 Sec. 12: E<sub>1</sub>SW<sub>4</sub>  
 74 Sec. 12: W<sub>1</sub>SW<sub>4</sub>  
 75 Sec. 13: W<sub>1</sub>SW<sub>4</sub>  
 76 Sec. 13: E<sub>1</sub>SW<sub>4</sub>  
 77 Sec. 13: W<sub>1</sub>NE<sub>4</sub>  
 78 Sec. 13: E<sub>1</sub>NE<sub>4</sub>

T. 8 S., R. 25 E., SIM

79 Sec. 18: W<sub>1</sub>SW<sub>4</sub>  
 80 Sec. 18: E<sub>1</sub>SW<sub>4</sub>  
 81 Sec. 18: W<sub>1</sub>NE<sub>4</sub>  
 82 Sec. 18: E<sub>1</sub>NE<sub>4</sub>

<u>Drilling Unit No.</u>	<u>Description of Drilling Unit</u>	<u>Drilling Unit No.</u>	<u>Description of Drilling Unit</u>
<u>T. 8 S., R. 25 E., S11</u>		<u>T. 8 S., R. 24 E., S11</u>	
83	Sec. 17: W $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$	103	Sec. 24: W $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$
84	Sec. 17: E $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$	104	Sec. 24: E $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$
85	Sec. 17: W $\frac{1}{2}$ S $\frac{1}{2}$ E $\frac{1}{2}$	105	Sec. 24: W $\frac{1}{2}$ S $\frac{1}{2}$ E $\frac{1}{2}$
86	Sec. 17: E $\frac{1}{2}$ S $\frac{1}{2}$ E $\frac{1}{2}$	106	Sec. 24: E $\frac{1}{2}$ S $\frac{1}{2}$ E $\frac{1}{2}$
87	Sec. 17: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$		
88	Sec. 17: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$		
89	Sec. 17: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$		<u>T. 8 S., R. 25 E., S11</u>
90	Sec. 17: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	107	Sec. 19: W $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$
91	Sec. 18: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	108	Sec. 19: E $\frac{1}{2}$ N $\frac{1}{2}$ E $\frac{1}{2}$
92	Sec. 18: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	109	Sec. 19: W $\frac{1}{2}$ S $\frac{1}{2}$ E $\frac{1}{2}$
93	Sec. 18: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	110	Sec. 19: E $\frac{1}{2}$ S $\frac{1}{2}$ E $\frac{1}{2}$
94	Sec. 18: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$		
<u>T. 8 S., R. 24 E., S11</u>		<u>T. 8 S., R. 24 E., S11</u>	
		111	Sec. 24: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
95	Sec. 13: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	112	Sec. 24: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
96	Sec. 13: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	113	Sec. 24: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
97	Sec. 13: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	114	Sec. 24: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
98	Sec. 13: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	115	Sec. 23: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
99	Sec. 23: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	116	Sec. 23: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
100	Sec. 23: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	117	Sec. 23: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
101	Sec. 23: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$	118	Sec. 23: W $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$
102	Sec. 23: E $\frac{1}{2}$ S $\frac{1}{2}$ W $\frac{1}{2}$		

3. No more than one well shall be drilled on any such unit for the production of oil from said known producing zones of the Green River Formation.

4. Except as may hereafter otherwise be ordered by the Commission after notice and hearing, the location of a permitted well for each drilling unit in those instances where a drilling unit is now or presently drilled, shall be at a location approximating the center of the  $\frac{1}{4}$  and the  $\frac{3}{4}$  of each quarter section.

5. The permissible drilling location for any said co-established drilling unit shall be located not closer than 500 feet from the exterior lines of the legal subdivision within which the permitted well is to be located. An exception to the foregoing is hereby allowed in those instances where, upon application filed in due form, it is shown to this Board that the necessity for a

*Location site*  
*NE $\frac{1}{4}$*   
*SW $\frac{1}{4}$*   
*each quarter section*

location nearer than 500 feet from the exterior lines of said legal subdivision exists for reasons of topography. Such exception shall be allowed, without notice and hearing, upon a showing of consent from the operators of all other drilling units within said pool adjoining or cornering that drilling unit containing such unorthodox location.

6. The following existing wells are designated the drilling unit wells for the indicated drilling unit:

<u>Drilling Unit</u>	<u>Well No./Designation</u>
19	2-5
20	1
30	Pan American
35	1-6
36	4-6
45	1-12
47	Amerada
76	1-13
95	2-13
73	Belco

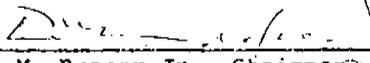
7. The wells hereinabove designated as Nos. 1 and 2-5 located, respectively, in the SE $\frac{1}{4}$  of Section 5, and the NW $\frac{1}{4}$  of Section 5, Township 3 South, Range 25 East, are hereby allowed as exceptions to the herein established well spacing program. No wells other than those so designated as Drilling Unit Wells for Drilling Units 19 and 20 shall be drilled therein.

8. This Order shall be in effect until further order of this Board.

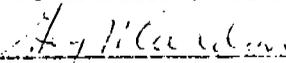
9. This Board retains continuing jurisdiction over all matters covered by this Order.

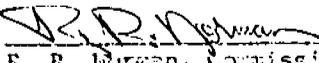
DATED this 13th day of September, 1967.

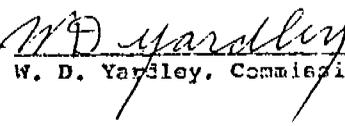
STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
OIL AND GAS CONSERVATION BOARD

  
D. H. Draper Jr., Chairman

  
C. R. Henderson, Commissioner

  
G. H. Cardon, Commissioner

  
R. R. Norman, Commissioner

  
W. D. Yardley, Commissioner

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 03/23/94

API NO. ASSIGNED: 43-047-32490

WELL NAME: EAST COYOTE FED 6-9-8-25  
OPERATOR: CHANDLER & ASSOCIATES INC (N3320)

PROPOSED LOCATION:  
SEW 09 - T08S - R25E  
SURFACE: 1989-FNL-1848-FWL  
BOTTOM: 1989-FNL-1848-FWL  
UINTAH COUNTY  
UNDESIGNATED FIELD (002)

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

LEASE TYPE: FED  
LEASE NUMBER: U-65735

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal  State  Fee   
(Number 2396118)  
N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
(Number 53617-43-8496)  
N RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
 R649-3-2. General. R649-3-2-2  
 R649-3-3. Exception.  
 Drilling Unit.  
Board Cause no: 129-1  
Date: 9/13/67

COMMENTS: NEEDS OFFSET OPERATOR AGREEMENT FOR SPACING.  
ADMINISTRATIVE APPROVAL GRANTED UNDER R 649-3-2-2

STIPULATIONS: \_\_\_\_\_

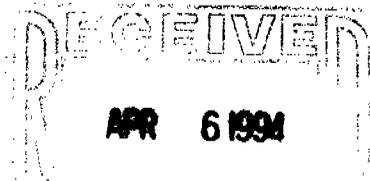
CONFIDENTIAL  
PERIOD  
EXPIRES  
ON 9-7-95

**COCHRANE RESOURCES, INC.**

Engineering  
Wellsite Supervision  
Lease Operating

P.O. Box 1656  
Roosevelt, Utah 84066  
Phone (801) 722-5081

April 4, 1994



Balcron Oil Company  
P.O. Box 21017  
1601 Lewis Avenue Building  
Billings, Montana 59104

Attn: Ron Santi

Re: Spacing order  
Coyote Basin Field

Dear Ron:

The spacing order for the Coyote Basin Field is stand up 80 acres established in 1967 by Board Order Cause No. 129-1. Since that time there have been at least nine exceptions granted to this spacing order including approximately 5 to Bacron before the unit was formed.

Cochrane Resources has formed out acreage in sections 3, 4, 8, and 9, of 8 South 25 East and the Farmee would like to drill a well in the SE - SW Sec 4, 8 S, R 25 E. Because the spacing order designates the well to be in the NE of SW, we are seeking an exception to the spacing order.

The State advises me that before granting an exception to the spacing order they would like to hear from the offset lease holders. Therefore I would like to request a letter from Balcron Oil Co., as unit operator, hopefully supporting this location. As working interest owners in the unit, Cochrane and McDonald have no objections.

Please advise if you have any questions.

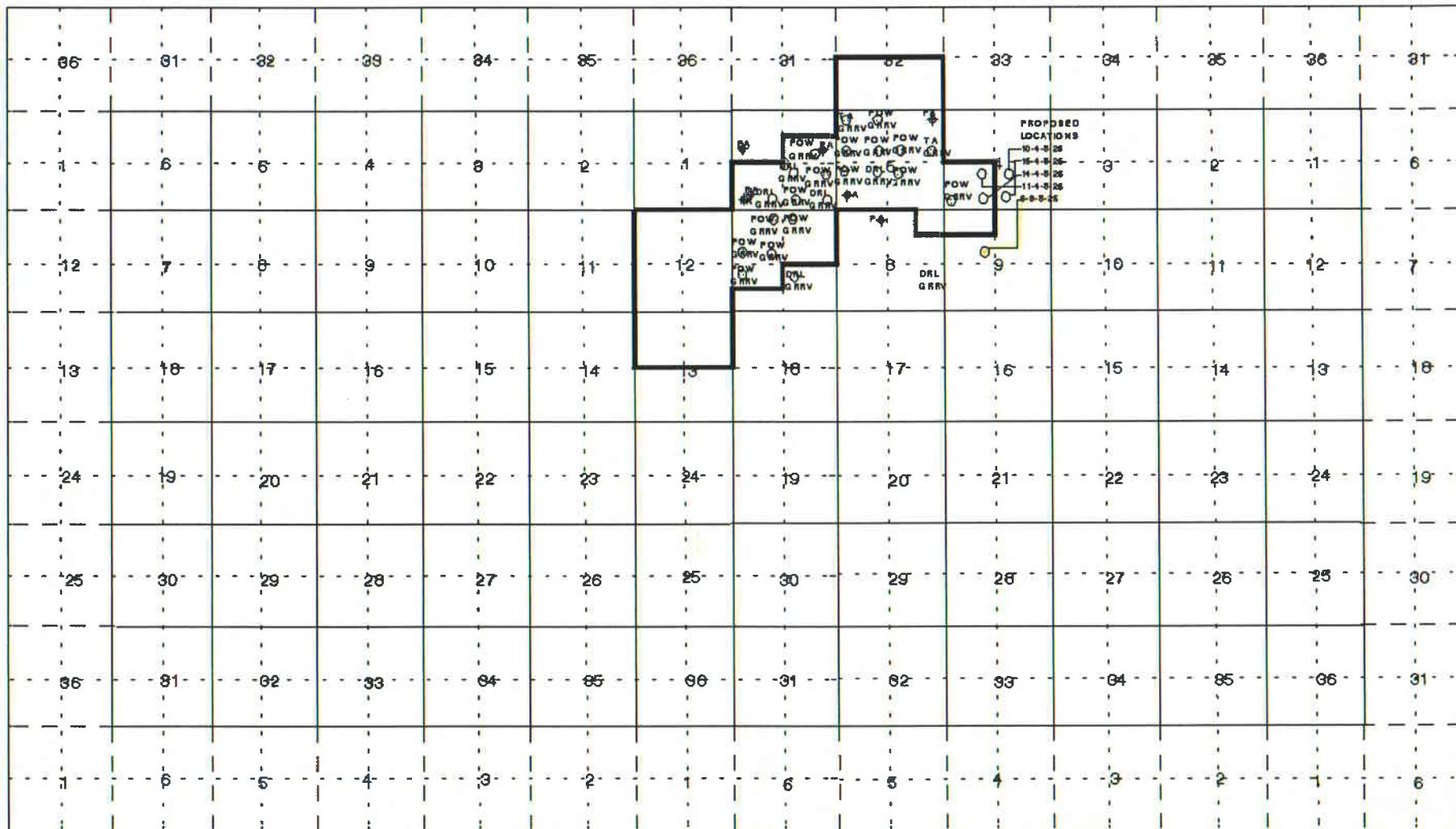
Yours truly,

Ken Allen

A handwritten signature in cursive script, appearing to read "Ken Allen".

CC: Ron Firth: State of Utah

# COYOTE BASIN



T  
8  
S

R 24 E

R 25 E  
GREEN RIVER POOL  
UINTAH COUNTY  
FIELD 570 ACTIVE



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

April 28, 1994

Chandler & Associates, Inc.  
555 17th Street, Suite 1850  
Denver, Colorado 80202

Re: East Coyote Federal #6-9-8-25 Well, 1989' FNL, 1848' FWL, SE NW, Sec. 9, T. 8 S., R. 25 E., Uintah County, Utah

Gentlemen:

Pursuant to Utah Admin. R. 649-3-2-2, Location and Siting of Wells and Utah Admin. R. 649-3-4, Permitting of Wells to be Drilled, Deepened or Plugged-Back, approval to drill the referenced well is hereby granted.

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

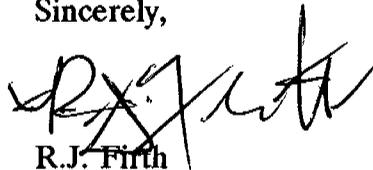
1. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
2. Notification to the Division within 24 hours after drilling operations commence.
3. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
4. Submittal of the Report of Water Encountered During Drilling, Form 7.
5. Prompt notification prior to commencing operations, if necessary, to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.

Page 2  
Chandler & Associates, Inc.  
East Coyote Federal #6-9-8-25 Well  
April 28, 1994

6. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production.

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-047-32490.

Sincerely,



R.J. Firth  
Associate Director

ldc  
Enclosures  
cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office  
WOI1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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       SINGLY ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR  
 555 Seventeenth Street (303)295-0400  
 Anaconda Tower, Suite 1850 Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 1989' FNL 1848 FWL (SE 1/4 NW 1/4)  
 At proposed prod. zone  
 Same

5. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 See Topo Map "A"

6. LEASE DESIGNATION AND SERIAL NO.  
 U-65735

7. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 N/A

8. UNIT AGREEMENT NAME  
 N/A

9. FARM OR LEASE NAME  
 East Coyote Federal

10. WELL NO.  
 #6-9-8-25

11. FIELD AND POOL OR WILDCAT  
 East Coyote Federal

12. SEC. T., R., N., OR S.E. AND SURVEY OR AREA  
 Sec. 9, T8S, R25E

13. COUNTY OR PARISH      14. STATE  
 Uintah      Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY ON LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 669'

16. NO. OF ACRES IN LEASE  
 1680

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.  
 2800' ±

19. PROPOSED DEPTH  
 4261'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DP, RT, GR, etc.)  
 5442 GR.

22. APPROX. DATE WORK WILL START\*  
 A.S.A.P.

43-047-32490

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24#	350'	(see attached drilling plan.)
7 7/8"	5 1/2"	15.5#	4261'	(see attached drilling plan.)

MAY 17 1994

- M.I.R.U.
- Drill to T.D. 4261'
- Run 5 1/2" casing if commercial production is indicated
- If dry hole, well will be plugged and abandoned as instructed by B.L.M.
- Well will be drilled with fresh water to 3900' then chem gel mud to T.D. mud will be in place to run 5 1/2" casing.

I hereby certify that I am responsible by the terms and conditions of the lease to conduct lease operations. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Chandler & Associates, Inc., B.L.M. Bond #2396118, with Reichart Silversmith.

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 prevention program, if any.

26. SIGNED Todd L. McDonald TITLE Petroleum Engineer DATE 3-21-94  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE MAY 11 1994  
 APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

NOTICE OF APPROVAL  
 See Instructions On Reverse Side

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Chandler & Associates, Inc.

Well Name & Number: East Coyote Fed. 6-9-8-25

API Number: 43-047-32490

Lease Number: U-65735

Location: SENW Sec. 09 T. 8S R. 25E

**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. 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 2M 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.

The Vernal District Office shall be notified, at least 24 hours prior to initiating the pressure tests, in order to have a BLM representative on location during pressure testing.

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 base of the usable water zone, identified at  $\pm$  3442 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

The Vernal District Office shall be notified at least 24 hours prior to the running and cementing of all casing strings, in order to have a BLM representative on location while running and cementing all casing strings.

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 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.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours prior to spudding the well.

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 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) 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 3162.7-4.

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 on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and within 500 feet downstream of the meter run or any production facilities. 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 months on new 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).

APD approval is valid 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 (801) 781-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
Petroleum Engineer

BLM FAX Machine (801) 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

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, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the 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. 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. Should mud holes develop, they shall be filled in and detours around them avoided.

The reserve pit shall not be lined unless porous soils are encountered or blasting is required to build the pit. If the pit requires a liner and a plastic nylon reinforced liner is used, it will be a minimum of 10 mil thickness with sufficient bedding (either straw or dirt) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O."

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with Onshore Order #7, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

Fencing Requirements

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

- a. 39-inch net wire shall be used with at least one strand of barbed 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 feet.
- e. All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

Drilling rigs and/or equipment used during drilling operations on this wellsite 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.)

Two or three silt catchment dams and basins will be constructed according to BLM specifications. A BLM representative will show the dirt contractor where the dams should be constructed.

If the operator wishes to do so, the access road can be flat bladed during the drilling phase. If the well becomes a producer, then the road would require upgrading.

A BLM representative will be present during the road construction to show the dirt contractor where to go to avoid prairie dog holes.

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: CHANDLER ASSOCIATES

WELL NAME: EAST COYOTE FEDERAL 6-9-8-25

API NO. 43-047-32490

Section 9 Township 8S Range 25E County UINTAH

Drilling Contractor CHANDLER

Rig # 7

SPUDDED: Date 7/25/94

Time \_\_\_\_\_

How ROTARY

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

Reported by LEON SCHULTZ

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

Date 8/1/94 SIGNED JLT

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM - FORM 6

OPERATOR Chandler & Associates, Inc.  
 ADDRESS 555 17th St, Suite 1850  
Denver, Co 80202

OPERATOR ACCT. NO. N3320

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999		43-047-32490	East Coyote Federal 6-9-8-25	SENW	9	8S	25E	Uintah	7/25/94	
WELL 1 COMMENTS: This well is drilled and abandoned as of 8/8/94.											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

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)



*[Signature]*  
 Signature  
 Manager of Operations 8/8/94  
 Title Date  
 Phone No. (303) 295-0400

SUBMIT IN DUPLICATE\*

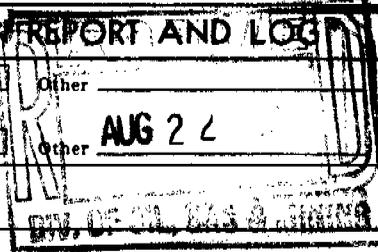
STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.  
U-65735  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A  
7. UNIT AGREEMENT NAME  
N/A  
8. FARM OR LEASE NAME  
East Coyote Federal  
9. WELL NO.  
6-9-8-25  
10. FIELD AND POOL, OR WILDCAT  
East Coyote Federal  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec 9-T8S-R25E

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. REVR.  Other \_\_\_\_\_  
2. NAME OF OPERATOR  
Chandler & Associates, Inc.  
3. ADDRESS OF OPERATOR  
555 17th St, Suite 1850 Denver, Co 80202  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface SE NW (1989'FNL & 1848'FWL)  
At top prod. interval reported below Same  
At total depth Same



12. COUNTY OR PARISH  
Uintah  
13. STATE  
Utah  
14. PERMIT NO.  
43-047-32490  
DATE ISSUED  
4-28-94  
15. DATE SPUDDED  
7-25-94  
16. DATE T.D. REACHED  
8-7-94 PA  
17. DATE COMPL. (Ready to prod.)  
N/A  
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
5442' GR 5454'KB  
19. ELEV. CASINGHEAD  
- - - -  
20. TOTAL DEPTH, MD & TVD  
4325'  
21. PLUG. BACK T.D., MD & TVD  
N/A  
22. IF MULTIPLE COMPL., HOW MANY\*  
N/A  
23. INTERVALS DRILLED BY  
- - - -  
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
N/A  
25. WAS DIRECTIONAL SURVEY MADE  
No  
26. TYPE ELECTRIC AND OTHER LOGS RUN  
DI-FL/GR CNL-CDL/GR 8-11-94  
27. WAS WELL CORRED  
Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	371	12 1/2	260 sx Class 'G'	----

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

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

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

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

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

35. LIST OF ATTACHMENTS  
Logs, Core Data, Cement Ticket

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records  
SIGNED [Signature] TITLE Manager-Production/Operations DATE 8/17/94

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

# INSTRUCTIONS

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

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

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

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

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

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

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

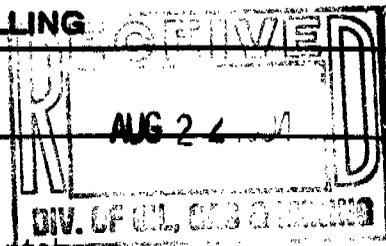
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
Uintah	Surface	1405'	Sand & Shale - Sands are wet	Uintah	Surface
Green River	1405'	4178'	Sand, siltstone, shale; abundant oil shale from 1405' - 3000'. Thin non-commercial oil-bearing sands	Green River	1405'
Wasatch	4178'	4325'	Shale & sandstone - appear wet	'X' Marker	3033'
Cored Interval	3954'	4015'		'Y' Marker	3444'
				'Z' Marker	3794'
				Wasatch	4178'
				TD	

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

NEAR. DEPTH	TRUE VERT. DEPTH
Surface	5454'
1405'	+4049'
3033'	+2421'
3444'	+2010'
3794'	+1660'
4178'	+1276'

**REPORT OF WATER ENCOUNTERED DURING DRILLING**



1. Well name and number: East Coyote Federal 6-9-8-25

API number: 43-047-32490

2. Well Location: QQ SENW Section 9 Township 8S Range 25E County Uintah

3. Well operator: Chandler & Associates, Inc.

Address: 555 17th St, Suite 1850

Denver, Co 80202

Phone: (303) 295-0400

4. Drilling contractor: Chandler Drilling Co

Address: Same

Phone: Same

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		No water flow encountered	

6. Formation tops:	Uintah	Surface
	<u>Green River</u>	<u>1405'</u>
	<u>Wasatch</u>	<u>4178'</u>
	<u>TD</u>	<u>4325'</u>

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/17/94

Name & Signature: D.M. (Don) Johnson Title: Manager-Production/Oper.

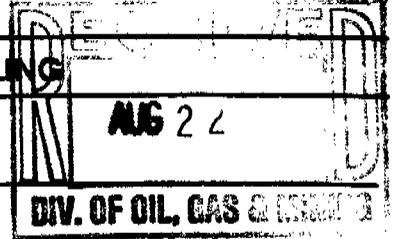
(7/93)



# THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

CUSTOMER <b>Chandler &amp; Assoc.</b>		DATE <b>8-8</b>	F.R.# <b>286275</b>	SER. SUP. <b>D. BAILEY</b>	TYPE JOB <b>P7A</b>								
LEASE & WELL NAME-OCSG <b>Payroll Fed 6-7-8-25</b>			LOCATION <b>7-85-25E</b>	COUNTY-PARISH-BLOCK <b>WINTAH UT</b>									
DISTRICT <b>Utah</b>		DRILLING CONTRACTOR RIG # <b>7</b>		OPERATOR <b>CHANDLER</b>									
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE		SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES						
	TOP	BTM					SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
Available Mix Water _____ Bbl.		Available Displ. Fluid _____ Bbl.				TOTAL		<b>55.6</b>	<b>32.5</b>				
HOLE			TBG-CSG-O.P.			TBG-CSG-D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT	TYPE	DEPTH	SHOE	FLOAT	STAGE
<b>9 7/8</b>	<b>10%</b>	<b>4325</b>	<b>4</b>	<b>14.4</b>	<b>FH</b>	<b>3592</b>	-	-	-	-	-	-	-
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH		TOP CONN		WELL FLUID			
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT		
<b>8 7/8</b>	<b>24</b>	<b>J-55</b>	<b>372</b>	-	-	-	-	<b>4"</b>	<b>FH</b>	<b>AND</b>	<b>7.1</b>		
CAL. DISPL. VOL.-Bbl.				CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
<b>35.7</b>	<b>11.2</b>	<b>2.2</b>	<b>TOTAL</b>	<b>BUMP PLUG</b>	<b>TO REV</b>	<b>SO. PSI</b>	<b>RATED</b>	<b>OP.</b>	<b>RATED</b>	<b>OP.</b>	<b>TYPE</b>	<b>WGT</b>	<b>WATER SOURCE</b>
							<b>6500</b>	<b>5200</b>			<b>MUD</b>	<b>7.1</b>	<b>R17</b>
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													
PRESSURE/RATE DETAIL							EXPLANATION						
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE		SAFETY MEETING: WPS CREW <input type="checkbox"/> CO. REP <input type="checkbox"/>						
	PIPE	ANNULUS					TEST LINES _____ PSI <b>7000</b>						
							CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/>						
<b>4:40</b>	-		<b>4</b>	-	<b>MUD</b>		<b>End hole</b>						
<b>4:51</b>	<b>200</b>		<b>4</b>	<b>8</b>	<b>MUD</b>		<b>Hole bit lost - 1270'</b>						
<b>4:57</b>	<b>200</b>		<b>4</b>	-	<b>MUD</b>		<b>Start flush</b>						
<b>5:00</b>	<b>200</b>		<b>4</b>	<b>10</b>	<b>MUD</b>		<b>End flush max rate @ 15.8'</b>						
<b>5:02</b>	<b>200</b>		<b>4</b>	-	<b>MUD</b>		<b>Start next plug #2</b>						
<b>5:10</b>	<b>50</b>		<b>3.5</b>	<b>17.2</b>	<b>MUD</b>		<b>End next</b>						
<b>5:10</b>	<b>50</b>		<b>6.5</b>	-	<b>MUD</b>		<b>Start disp</b>						
<b>5:14</b>	-		-	<b>35.7</b>	<b>MUD</b>		<b>End disp full hole</b>						
<b>8:45</b>	-		-	-	-		<b>R.T.H. top hole @ 3592' Rate @ 1270'</b>						
<b>11:19</b>	<b>150</b>		<b>4.6</b>	-	<b>MUD</b>		<b>Start flush</b>						
<b>11:16</b>	<b>150</b>		<b>4.6</b>	<b>10</b>	<b>MUD</b>		<b>End flush max rate @ 15.8'</b>						
<b>11:18</b>	<b>150</b>		<b>4.7</b>	-	<b>MUD</b>		<b>Start next</b>						
<b>11:24</b>	<b>150</b>		<b>4.5</b>	<b>17.2</b>	<b>MUD</b>		<b>End next</b>						
<b>11:24</b>	<b>150</b>		<b>6.5</b>	-	<b>MUD</b>		<b>Start disp</b>						
<b>11:26</b>	-		-	<b>11.2</b>	<b>MUD</b>		<b>End disp full hole to 460'</b>						
<b>1:33</b>	<b>50</b>		<b>4.0</b>	-	<b>MUD</b>		<b>Start flush</b>						
<b>1:36</b>	<b>50</b>		<b>4.0</b>	<b>5</b>	<b>MUD</b>		<b>Start next (75 sls)</b>						
<b>1:40</b>	<b>50</b>		<b>4.0</b>	<b>15.2</b>	<b>MUD</b>		<b>Start disp</b>						
<b>1:41</b>	-		-	<b>2.2</b>	-		<b>Start lower part to 60'</b>						
<b>4:00</b>			<b>1.0</b>	-	<b>MUD</b>		<b>Start next</b>						
<b>4:05</b>			-	<b>6</b>	<b>MUD</b>		<b>End next part to surface</b>						
							<b>Trans. Drill out &amp; Clean</b>						
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. <b>D. BAILEY</b>		CUSTOMER REP. <b>LEON SCHULTZ</b>				
<b>X-N</b>	<b>-</b>	<b>X-N</b>	<b>138</b>	<b>2</b>	<b>-</b>	<b>0</b>							

**REPORT OF WATER ENCOUNTERED DURING DRILLING**



1. Well name and number: East Coyote Federal 6-9-8-25

API number: 43-047-32490

2. Well Location: QQ SENW Section 9 Township 8S Range 25E County Uintah

3. Well operator: Chandler & Associates, Inc.

Address: 555 17th St, Suite 1850

Denver, Co 80202

Phone: (303) 295-0400

4. Drilling contractor: Chandler Drilling Co

Address: Same

Phone: Same

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		No water flow encountered	

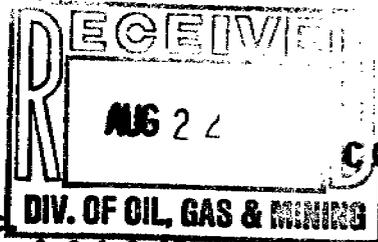
6. Formation tops:	Uintah	Surface
	<u>Green River</u>	<u>1405'</u>
	<u>Wasatch</u>	<u>4178'</u>
	<u>TD</u>	<u>4325'</u>

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/17/94

Name & Signature: D.M. (Don) Johnson Title: Manager-Production/Oper.

(7/93)



**CORE LABORATORIES**

Company : Chandler & Assoc.  
 Well : East Coyote Federal 6-9-8-25  
 Location : SE NW Sec 9 T8S R25E  
 Co., State : Uintah, Utah

Field : East Coyote  
 Formation : Green River  
 Coring Fluid : Water Base Mud  
 Elevation : 5442 GL

File No. : 57122-7891  
 Date : 6-Aug-1994  
 API No. :  
 Analysts: DF

**C O R E A N A L Y S I S R E S U L T S**

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md		OIL %	WATER %		
Core No. 1 3954.0-3954.6 Cut 0.6' Rec. 0.0'								
Core No. 2 3954.6-3955.0 Cut 0.4' Rec. 0.0'								
Core No. 3 3955.0-4015.0 Cut 60.0' Rec. 57.0'								
1	3955.0- 56.0	0.35	0.30	5.3	7.3	58.4	2.70	
2	3956.0- 57.0	37.0	37.0	10.2	15.9	21.3	2.66	
3	3957.0- 58.0	20.1	15.1	9.6	13.6	25.7	2.66	
4	3958.0- 59.0	0.81	0.50	10.1	18.0	34.5	2.68	
	3959.0- 70.0							Sltst -- No Analysis
	3970.0- 72.0							Sh -- No Analysis
5	3972.0- 73.0	0.45	0.12	8.0	1.1	41.4	2.67	
6P	3972.9- 74.0	0.03		8.5	13.5	37.2	2.68	
7	3974.0- 75.0	0.37	0.36	9.4	5.4	65.4	2.67	
	3975.0- 76.0							Sltst -- No Analysis
	3976.0- 77.0							Sh -- No Analysis
8P	3976.9- 78.0	0.03		8.4	8.7	75.6	2.68	
9	3978.0- 79.0	0.09	0.09	7.0	4.2	67.2	2.65	
10	3979.0- 80.0	0.09	0.06	5.0	0.0	46.5	2.66	
	3980.0- 84.0							Sh, Sltst -- No Analysis
	3984.0- 92.0							Sh -- No Analysis
	3992.0- 97.0							Sltst -- No Analysis

Preliminary Report 1 - 1

## CORE LABORATORIES

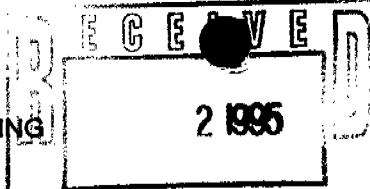
Company : Chandler & Assoc.  
 Well : East Coyote Federal 6-9-8-25  
 Location : SE NW Sec 9 T8S R25E  
 Co,State : Uintah, Utah

Field : East Coyote  
 Formation : Green River  
 Coring Fluid : Water Base Mud  
 Elevation : 5442 GL

File No.: 57122-7891  
 Date : 6-Aug-1994  
 API No. :  
 Analysts: DF

## CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	SATURATION (PORE VOLUME)		GRAIN DENSITY gm/cc	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md		OIL %	WATER %		
11	3997.0- 98.0	0.01	<.01	1.6	0.0	71.8	2.74	
12	3998.0- 99.0	0.03	0.01	3.0	0.0	82.8	2.74	
13P	3999.0- 00.0	<.01		9.8	0.0	73.8	2.82	
14	4000.0- 01.0	0.46	0.10	4.2	0.0	73.9	2.75	frac
	4001.0- 12.0							Sh -- No Analysis
	4012.0- 15.0							Lost core



**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER: Dry Hole		5. Lease Designation and Serial Number: U-65735
2. Name of Operator: Chandler & Associates, Inc.		6. If Indian, Allocated or Tribe Name: NA
3. Address and Telephone Number: 475 17th St, Suite 1000 Denver, Co 80202		7. Unit Agreement Name: NA
4. Location of Well Sec 9-T8S-R25E Footages: 1989'FNL and 1848'FWL (SENW) QQ, Sec.,T.,R.,M.:		8. Well Name and Number: 6-9-8-25 East Coyote Federal
		9. API Well Number: 43-047-32490
		10. Field and Pool, or Wildcat: East Coyote
		County: Uintah State: Utah

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input checked="" type="checkbox"/> Abandon * <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Other _____
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recomplete <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Reperforate <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
Approximate date work will start _____	Date of work completion _____
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. * Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Notice is hereby given that the well pad site was recently drilled and seeded per BLM specs in regard to this well. The access road was not rehabilitated in the event it may be used in the future for additional wells. If no further wells are planned in the area the road will be drilled and planted as required. Mr. Byron Tolman of the BLM in Vernal was notified prior to the start of the rehab process.

13.   
 Name & Signature: D.M. (Don) Johnson Title: Manager, Operations/Production Date: 4/6/95

(This space for State use only)

**CONFIDENTIAL**

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

**RECEIVED**

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

7/1994

5. LEASE DESIGNATION AND SERIAL NO.  
U-65735

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

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

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

7. UNIT AGREEMENT NAME  
N/A

2. NAME OF OPERATOR  
Chandler & Associates, Inc.

8. FARM OR LEASE NAME  
East Coyote Federal

3. ADDRESS OF OPERATOR  
555 17th St, Suite 1850 Denver, Co 80202

9. WELL NO.  
6-9-8-25

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface SE NW (1989'FNL & 1848'FWL)

10. FIELD AND POOL, OR WILDCAT  
East Coyote Federal

At top prod. interval reported below Same  
At total depth Same

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec 9-T8S-R25E

14. PERMIT NO. 43-047-32490      DATE ISSUED 4-28-94

12. COUNTY OR PARISH Uintah      13. STATE Utah

15. DATE SPUDDED 7-25-94      16. DATE T.D. REACHED 8-7-94      17. DATE COMPL. (Ready to prod.) N/A      18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 5442' GR 5454' KB      19. ELEV. CASINGHEAD - - - -

20. TOTAL DEPTH, MD & TVD 4325'      21. PLUG, BACK T.D., MD & TVD N/A      22. IF MULTIPLE COMPL., HOW MANY\* N/A      23. INTERVALS DRILLED BY ->      ROTARY TOOLS 0 - TD      CABLE TOOLS - - -

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

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DI-FL/GR      CNL-CDL/GR

27. WAS WELL CORRED  
Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	371	12 1/4	260 sx Class 'G'	----

29. LINER RECORD      30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

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

35. LIST OF ATTACHMENTS  
Logs, Core Data, Cement Ticket

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

SIGNED  TITLE Manager-Production/Operations DATE 8/17/94

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

# INSTRUCTIONS

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

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

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

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Uintan	Surface	1405'	Sand & Shale - Sands are wet
Green River	1405'	4178'	Sand, siltstone, shale; abundant oil shale from 1405' - 3000'. Thin non-commercial oil-bearing sands
Wasatch	4178'	4325'	Shale & sandstone - appear wet
Cored Interval	3954'	4015'	

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Uintan	Surface		5454'
Green River	1405'		+4049'
X' Marker	3033'		+2421'
Y' Marker	3444'		+2010'
Z' Marker	3794'		+1660'
Wasatch	4178'		+1276'
TD			



# THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

CUSTOMER <i>CHANDLER &amp; ASSOC.</i>		DATE <i>8-8</i>	F.R.# <i>286275</i>	SER. SUP. <i>D. BAILEY</i>	TYPE JOB <i>PTA</i>								
LEASE & WELL NAME-OCSS <i>ROYAL FLD 6-7-8-25</i>		LOCATION <i>9-85-25E</i>		COUNTY-PARISH-BLOCK <i>WINN 07</i>									
DISTRICT <i>UNION</i>		DRILLING CONTRACTOR RIG # <i>7</i>		OPERATOR <i>CHANDLER</i>									
MATERIAL FURNISHED BY WPS	TYPE OF PLUGS		LIST-CSG-HARDWARE		SQ MANI FOLD Y N	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES						
	TOP BTM						SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER	
Available Mix Water _____ Bbl.		Available Displ. Fluid _____ Bbl.		TOTAL							<i>55.6</i>	<i>32.5</i>	
HOLE			TBG-CSG O.P.			TBG-CSG D.P.			COLLAR DEPTHS				
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	DEPTH	SHOE	FLOAT	STAGE
<i>9 7/8</i>	<i>10%</i>	<i>4325</i>	<i>4</i>	<i>14.4</i>	<i>F.H</i>	<i>3592</i>	-	-	-	-	-	-	-
LAST CASING			PKR-CMT RET-BR PL-LINER			PERF. DEPTH			TOP CONN		WELL FLUID		
SIZE	WGT.	TYPE	DEPTH	BRAND & TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.	
<i>8 9/16</i>	<i>24</i>	<i>J-55</i>	<i>372</i>	-		-	-	-	<i>4"</i>	<i>FH</i>	<i>MUD</i>	<i>7.1</i>	
CAL. DISPL. VOL.-Bbl.			CAL. PSI	CAL. MAX PSI	OP. MAX	MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE	
TBG	CSG	TOTAL	BUMP PLUG	TO REV	SQ. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.		
<i>35.7</i>	<i>11.2</i>	<i>2.2</i>	-	-	-	<i>6500</i>	<i>5200</i>	-	-	<i>MUD</i>	<i>7.1</i>	<i>Rig</i>	
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:													

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	PSI
						CIRCULATING WELL-RIG <input checked="" type="checkbox"/> WPS <input type="checkbox"/>	
<i>4:48</i>	-		<i>4</i>	-	<i>MUD</i>	<i>Full hole</i>	
<i>4:51</i>	<i>200</i>		<i>4</i>	<i>8</i>	<i>MUD</i>	<i>Half hole after 100' @ 15.8'</i>	
<i>4:57</i>	<i>200</i>		<i>4</i>	-	<i>H2O</i>	<i>START FRESH</i>	
<i>5:00</i>	<i>200</i>		<i>4</i>	<i>10</i>	<i>H2O</i>	<i>END FRESH MIX MUD @ 15.8'</i>	
<i>5:02</i>	<i>200</i>		<i>4</i>	-	<i>CMT</i>	<i>START CMT plug #2</i>	
<i>5:10</i>	<i>50</i>		<i>3.5</i>	<i>17.2</i>	<i>MUD</i>	<i>END CMT</i>	
<i>5:10</i>	<i>50</i>		<i>6.5</i>	-	<i>H2O</i>	<i>START DISP</i>	
<i>5:14</i>	-		-	<i>35.7</i>	<i>MUD</i>	<i>END DISP back to 400'</i>	
<i>8:45</i>	-		-	-	-	<i>R.T.H. TEST CMT @ 3550' PROD. @ 1270'</i>	
<i>11:14</i>	<i>150</i>		<i>4.6</i>	-	<i>H2O</i>	<i>START FRESH</i>	
<i>11:16</i>	<i>150</i>		<i>4.6</i>	<i>10</i>	<i>H2O</i>	<i>END FRESH MIX MUD @ 15.8'</i>	
<i>11:18</i>	<i>150</i>		<i>4.7</i>	-	<i>CMT</i>	<i>START CMT</i>	
<i>11:24</i>	<i>150</i>		<i>4.5</i>	<i>17.2</i>	<i>CMT</i>	<i>END CMT</i>	
<i>11:24</i>	<i>150</i>		<i>6.5</i>	-	<i>H2O</i>	<i>START DISP</i>	
<i>11:28</i>	-		-	<i>11.2</i>	<i>MUD</i>	<i>END DISP back to 400'</i>	
<i>1:33</i>	<i>50</i>		<i>4.0</i>	-	<i>H2O</i>	<i>START FRESH</i>	
<i>1:36</i>	<i>50</i>		<i>4.0</i>	<i>5</i>	<i>CMT</i>	<i>START CMT (175 S/S)</i>	
<i>1:40</i>	<i>50</i>		<i>4.0</i>	<i>15.2</i>	<i>MUD</i>	<i>START DISP</i>	
<i>1:41</i>	-		-	<i>2.2</i>	-	<i>SHUT DOWN back to 60'</i>	
<i>4:00</i>			<i>1.0</i>	-	<i>CMT</i>	<i>START CMT</i>	
<i>4:05</i>			-	<i>6</i>	<i>CMT</i>	<i>END CMT CMT to 500'</i>	
<i>THANKS DARRYL &amp; CREW</i>							
BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP.
<i>Y-N</i>	-	<i>Y-N</i>	<i>138</i>	<i>2</i>	-	<i>0</i>	<i>D. BAILEY</i>
						CUSTOMER REP. <i>LEON SCHULTZ</i>	

**REPORT OF WATER ENCOUNTERED DURING DRILLING**

1. Well name and number: East Coyote Federal 6-9-8-25

API number: 43-047-32490

2. Well Location: QQ SENW Section 9 Township 8S Range 25E County Uintah

3. Well operator: Chandler & Associates, Inc.

Address: 555 17th St, Suite 1850

Denver, Co 80202

Phone: (303) 295-0400

4. Drilling contractor: Chandler Drilling Co

Address: Same

Phone: Same

5. Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		No water flow encountered	

6. Formation tops:	Uintah	Surface
	<u>Green River</u>	<u>1405'</u>
	<u>Wasatch</u>	<u>4178'</u>
	<u>TD</u>	<u>4325'</u>

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge. Date: 8/17/94

Name & Signature: D.M. (Don) Johnson Title: Manager-Production/Oper.

(7/93)  
