

UTAH OIL AND GAS CONSERVATION COMMISSION

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

LAD per BLM

DATE FILED 9-14-89
 LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-37806 INDIAN

DRILLING APPROVED: 10-4-89

SPUDED IN:
 COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:
 GRAVITY A.P.I.

GOR:
 PRODUCING ZONES:

TOTAL DEPTH:
 WELL ELEVATION:

DATE ABANDONED: LAD 11-28-90

FIELD: WILDCAT
 UNIT: RANGE CREEK II
 COUNTY: EMERY

WELL NO. RANGE CREEK 3-7 API NO. 43-015-30234

LOCATION 2212' FSL FT. FROM (N) (S) LINE, 997' FEL FT. FROM (E) (W) LINE. NESE 1/4 - 1/4 SEC. 7

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
18S	16E	7	CHEVRON USA INCORPORATED				

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
 2. NAME OF OPERATOR
 Chevron U.S.A. Inc., Room 13097

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5. LEASE DESIGNATION AND SERIAL NO.
U-37806

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

3. ADDRESS OF OPERATOR
P.O. Box 599, Denver, CO 80201

8. FARM OR LEASE NAME
Range Creek

4. LOCATION OF WELL (Report location clearly and in accordance with any State regulations)
 At surface 2212' 2,200' FSL & 700' FEL NESE
 At proposed prod. zone 997' wrong footages - see plat - revision being sent.

9. WELL NO.
#3-7

10. FIELD AND POOL, OR WILDCAT
*wildcat Cedar Mountain-Buckhorn

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 7, T18S, R16E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
9 miles east of Woodside, Utah

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

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
700' east to u.l. 4,580' west to u.l.

16. NO. OF ACRES IN LEASE
2,521

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL DRILLING COMPLETED OR APPLIED FOR ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
6,553' Buckhorn

20. ROTARY OR CABLE TOOLS
RT

21. ELEVATIONS: (Show whether DF, RT, GR, etc.)
G.L.: est. - 6,320', K.B.: est. - 6,340'

22. APPROX. DATE WORK WILL START*
ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	P.E.	80'	T.D. to Surface
12 1/4"	9 5/8"	36	500'	T.D. to Surface
7 7/8"	5 1/2"	15.5	6,553'	T.D. to Surface

This 320 acre development well will be drilled to a depth of 6,553' to test the Dakota and Buckhorn formations. Completion procedure to be submitted by Sundry Notice.

- Attachments: Certified Plat
Drilling Program
Chevron Class III BOPE w/Rotating Head
Geologic Program
Multipoint Surface Use Plan - to follow

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

24. SIGNED John R. Watson TITLE Technical Assistant DATE 9/5/89

(This space for Federal or State office use)
 PERMIT NO. 43-015-30234
 APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

APPROVED BY John R. Base TITLE WELL SPACING: R1615-2-3 DATE 10-4-89

CONDITIONS OF APPROVAL, IF ANY:
 *See Instructions On Reverse Side
 Mailed 9/6/89

T18S, R16E, S.L.B.&M.

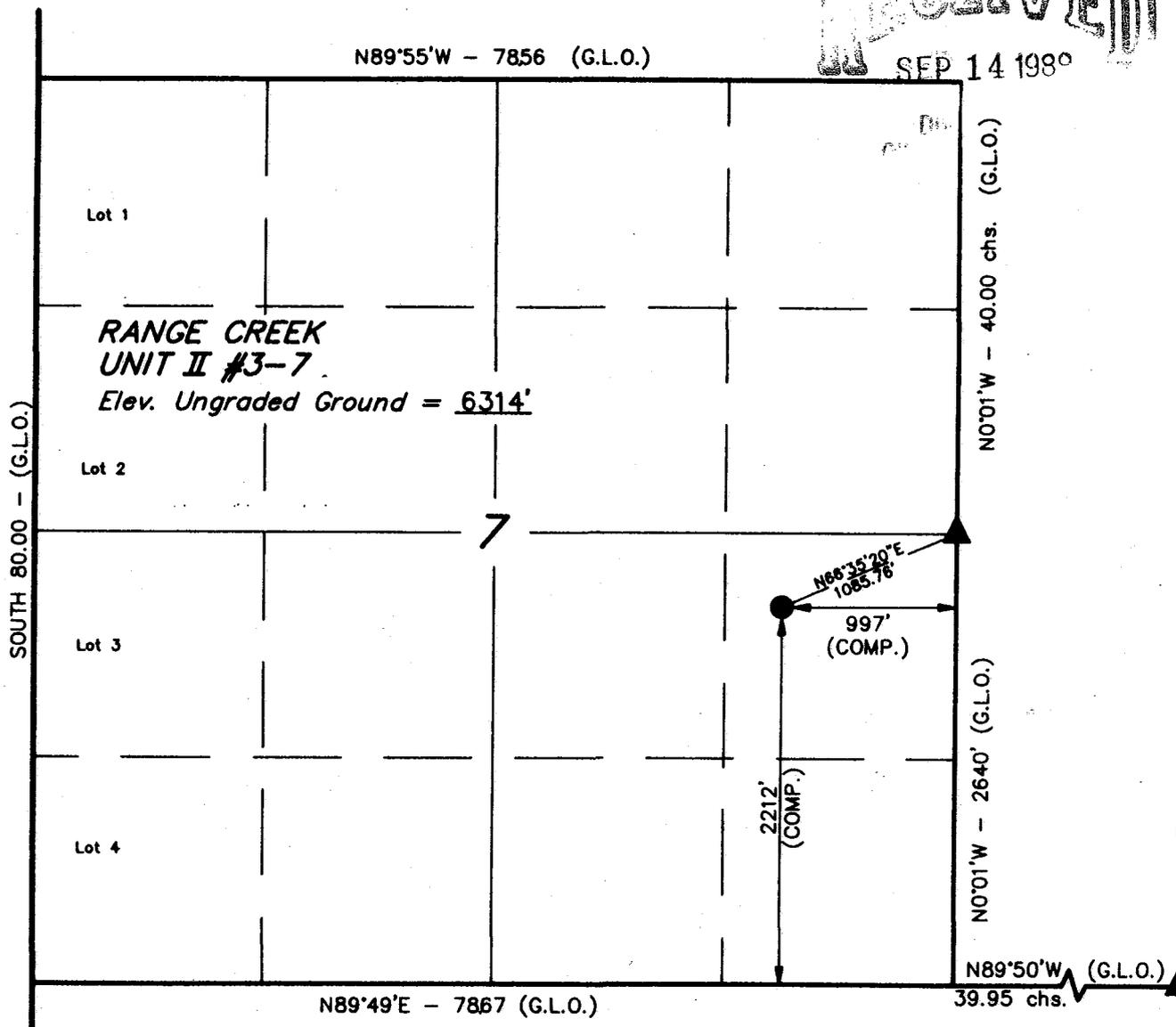
CHEVRON U.S.A. INC.

WELL LOCATION, RANGE CREEK UNIT II #3-7, LOCATED AS SHOWN IN THE NE 1/4 SE 1/4 OF SECTION 7, T18S, R16E, S.L.B.&M. EMERY COUNTY, UTAH.

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BASIS OF ELEVATION

SPOT ELEVATION AT THE SIDE OF THE ROAD IN THE SE 1/4 NE 1/4 OF SECTION 7, T18S, R16E, S.L.B.&M. TAKEN FROM THE TURTLE CANYON QUADRANGLE, UTAH, EMERY COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6340 FEET.



CERTIFICATE OF REGISTERED LAND SURVEYOR
 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. 5708
 STATE OF UTAH

▲ = SECTION CORNERS LOCATED. (Brass Caps)

NOTE:

BASIS OF BEARING IS THE STRAIGHT LINE BETWEEN THE EAST 1/4 CORNER OF SECTION 7 & THE NORTH 1/4 CORNER OF SECTION 17, T18S, R16E, S.L.B.&M. WHICH IS ASSUMED FROM G.L.O. INFORMATION TO BEAR S44°53'21"E A MEASURED DISTANCE OF 3719.79'.

UINTAH ENGINEERING & LAND SURVEYING
 P. O. BOX 1758 - 85 SOUTH - 200 EAST
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 7-17-89
PARTY D.A. R.D. T.D.H.	REFERENCES G.L.O. PLAT
WEATHER HOT	FILE CHEVRON U.S.A. INC.

DRILLING PROGRAM

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DIVISION OF
OIL, GAS & MINING Dev

Field Range Creek Well #3-7

Location NE 1/4 SE 1/4, 2200 FSL, 700 FEL Sec. 7, T18S, R16E, Emery Co., Utah

Drill X Deepen _____ Elevations: GL Est 6320' KB Est 6340'

Directional/Straight Hole: Proposed Measured TD 6553' TVD 6553'

KOP _____ ~~_____~~ Max Angle _____ Avg Angle _____
Target Location _____ Bearing from Surface _____

1. Conductor Hole

Hole Size 20" Proposed Depth 80' Casing Size, Weight & Grade 16" P.E.

2. Surface Hole

Hole Size 12 1/2" Proposed Depth 500' BOPE N/A

Mud Program: Type FW/Ge1 MW 8.9-9.0 FV 35-45 WL N/C Other _____

Potential Hazards: None
Electric Logging Program: None
Core/DST Program: None

Casing Program:
Size 9-5/8" Grade K-55 Weight 36#/ft Thread ST&C Section Length 500'

Cement Program: Lead Slurry _____
Tail Slurry Class G or H "NEAT" - to surf
WOC Time 8 hrs. Casing Test 1500 psi Shoe test MWE N/A PF _____

3. Intermediate Hole

Hole Size N/A Proposed Depth _____ BOPE _____

Mud Program: Type _____ MW _____ FV _____ WL _____ Other _____

Potential Hazards: _____
Electric Logging Program: _____
Core/DST Program: _____

Casing Program:
Size _____ Grade _____ Weight _____ Thread _____ Section Length _____

Cement Program: Lead Slurry _____
Tail Slurry _____
WOC Time _____ hrs. Casing Test _____ psi Shoe test MWE _____ PF _____

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4. Oil String/Liner Hole

Hole Size	8 1/2"	Proposed Depth	6553'	BOPE	OIL, CHEV & ANCO	Class III w/rotating head
Mud Program:	Type	MW	FV	WL		Other
	Air/Air-Mist/Foam					Base of surf to T.D.
	2% KCL	8.5	28-30	N/C		Load hole @ T.D. to log & run casing.
Potential Hazards:	Hydrocarbon gas					
Electric Logging Program:	BHC w/GR, Cal.; LDT-CNL w/GR, Cal.; Dipmeter; DLL-MSFL-GR					
Core /DST Program:	Open hole through: Upper Dakota (5895-5935'), Basal Dakota (6065-6145')					
Casing Program:	and Buckhorn (6370-6403')					
	Size	Grade	Weight	Thread	Section Length	
	5 1/2"	K-55	15.5 #/ft	LTC	Surf to T.D.	
Cement Program:	Lead Slurry	Class G or H w/16% gel to surf.				
	Tail Slurry	Class G or H to 500' above productive interval				
WOC Time	24	hrs.	Casing Test	2,000	psi	

5. Auxiliary Equipment

Mud Logging Unit @	Base of surf. to T.D.	Rotating Head @	Surf. csg
Geolograph @	Spud	Degasser @	-
Visulogger @	-	Desilter @	-
Adj. Choke @	Surf. csg	Centrifuge @	-
PVT & Flowmeter @	-	Mud Cleaner @	-
Trip Tank @	-	H ₂ S Safety Equip. @	N/R
Other:	Water for dust abatement below surf csg.		

6. Drill String Design

Surface Hole:

BHA 12 1/4" bit, bit sub w/float, 15-6 1/2" DC's

Drill Pipe 4 1/2" 16.60 Grade E designed f/100,000# overpull per API RP 7G

Intermediate Hole:

BHA N/A

Drill Pipe _____

Oil String/Liner Hole:

BHA 7-7/8" bit, bit sub w/float, 20-6 1/2" DC's

Drill Pipe 4 1/2" 16.60 Grade E designed f/100,000 # overpull per API RP 7G

7. Other

Inspect BHA after 200 rotating hours.

In "straight" holes run inclination surveys every 500 feet.

Gyro Surveys _____

Check drilling breaks for flow below - feet.

Fill drill pipe every - stds when running float.

8. General Remarks

Attached

9. Geologic Program

Attached

Prepared By Mark J. Miller Date 7/10/89 Drilling Superintendent [Signature] Date 7/13/89

DRILLING PROGRAM ATTACHMENT

GENERAL REMARKS

1. Applicable Federal and State Regulations will be adhered to during the drilling of this well.
2. The drilling rig is to be level and the kelly centered over the hole before drilling operations commence. Check periodically during the drilling of the well to insure the rig stays level.
3. Prior to spud insure all toolpushers, drillers and crews are thoroughly familiar with and understand the Chevron procedure for handling well kicks.

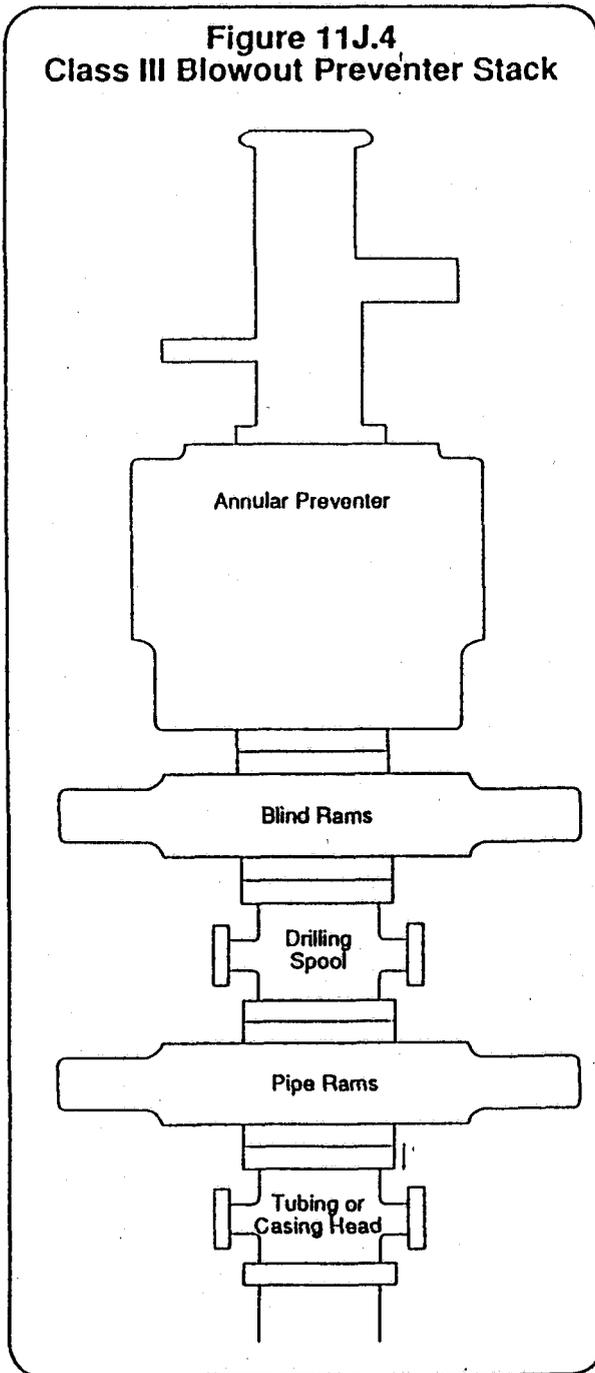
In H₂S environments Chevron's contingency plan for your location is to be read, understood and adhered to. All personnel are to be thoroughly familiar with the use of air packs, the air supply system, locations of air packs and what to do in the event of sour gas to surface.
4. Test BOPE before drilling out and every seven days thereafter. Perform low pressure test (200 psi) and high pressure test. High pressure test should be 70% of BOPE working pressure or 70% of burst of last casing string, whichever is less. Record BOP tests on Tour Reports. Notify applicable Federal and State Regulatory Agencies 24 hours in advance of BOPE tests and record notification and names on Tour Reports.
5. Do not reuse ring gaskets. Replace with new Rx or Bx ring gaskets.
6. Separate full opening safety valves and inside BOP's are required for each size drill pipe in use. Test weekly with BOPE.
7. Run full open valve below kelly that can be run in the hole if necessary. Do not use this valve as a mud saver sub.
8. BOP controls are to remain in the open position during drilling operations.
9. Hold pit drills for each crew at least once every seven days and record on Tour Reports.
10. On trips fill the annulus before hydrostatic pressure drops 75 psi or every 5 stds of drill pipe, whichever is first. Use trip tanks to measure hole fill-up and monitor at all times.
11. Use drill pipe floats at all times unless your supervisor instructs otherwise.
12. Have wear ring installed in wellhead before tripping or rotating. Remember to remove wear ring before running casing or when testing BOPE.

13. Casing rams are to be installed and bonnets tested on last trip out before running casing.
14. Run pilot and thickening time tests with rig mixing water for all cement slurries prior to cementing operations.
15. Casing should be tested to 1,500 psi or 0.2 psi/ft., whichever is greater, prior to drilling out and recorded on Tour Reports. Discuss the test pressure with your supervisor and reference DM-49 before testing.
16. Drill out slick beneath each casing string. Drill deep enough to bury stabilization to be picked up.
17. Do not drill with hardbanded pipe inside of casing.
18. Do not run full gauge stabilizers. Run stabilizers 1/16" to 1/8" undergauge.
19. When necessary to work pipe, keep pipe moving up and down. Rotating alone is not considered sufficient.
20. Install and test full lubricator on all logging runs unless instructed otherwise by supervisor.
21. Fully describe damaged or lost equipment on Tour Reports.

E. CLASS III BLOWOUT PREVENTER STACK:

The Class III preventer stack is designed for drilling or workover operations. It is composed of a single hydraulically operated annular preventer on top, then a blind ram preventer, a drilling spool, and a single pipe ram preventer on bottom. The choke and kill lines are installed onto the drilling spool and must have a minimum internal diameter of 2". All side outlets on the preventers or drilling spool must be flanged, studded, or clamped. An emergency kill line may be installed on the wellhead. A double ram preventer should only be used when space limitations make it necessary to remove the drilling spool. In these instances, the choke manifold should be connected to a flanged outlet between the preventer rams only. In this hookup, the pipe rams are considered master rams only, and cannot be used to routinely circulate out a kick. The Class III blowout preventer stack is shown to the right in Figure 11J.4.

**Figure 11J.4
Class III Blowout Preventer Stack**



4. CHOKE MANIFOLDS

A. GENERAL CHOKE MANIFOLD SPECIFICATIONS

The following general specifications apply to all classes of choke manifold.

1. All choke manifold components which may be exposed to well pressure must have a working pressure rating equal to or greater than that of the preventer stack in use.
2. Choke manifolds should be placed outside the rig substructure when possible.
3. Choke lines should be run in a straight line with a minimum of turns. All turns must be targeted in the direction of flow.
4. Choke lines should be securely staked or anchored to reduce vibrations while circulating.
5. Bloop lines must not have restricted internal diameters and should vent well clear of the rig.
6. All valves must be of full-opening gate valve construction. Low torque ball valves should not be installed.
7. All gauges should be rated for drilling service.
8. New metal rings are to be used each time a flange is assembled. Flange grooves are to be well cleaned and dry. API RX or BX rings are required. Use of API R rings will not be permitted.

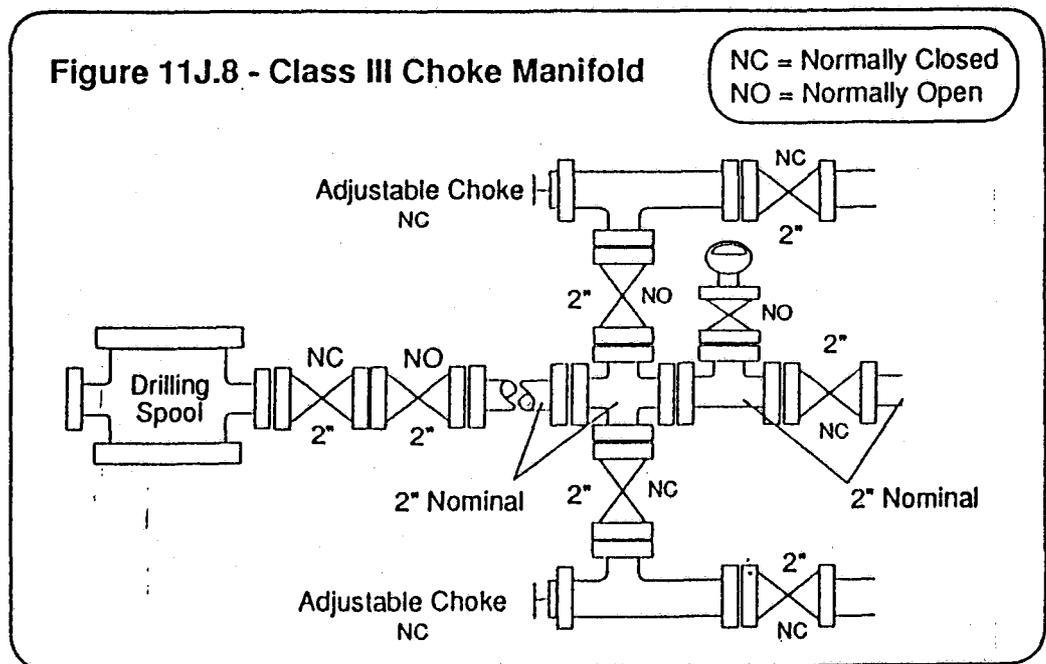
B. CLASS I CHOKE MANIFOLD

None required

D. CLASS III CHOKE MANIFOLD

The Class III choke manifold is suitable for Class III workovers and drilling operations. The Standard Class III choke manifold is shown in Figure 11J.8 below. Specific design features of the Class III manifold include:

1. The manifold is attached to a drilling spool or the top ram preventer side outlet.
2. The minimum internal diameter is 2" (nominal) for outlets, flanges, valves and lines.
3. Includes two steel gate valves in the choke line at the drilling spool outlet. The inside choke line valve may be remotely controlled (HCR).
4. Includes two manually adjustable chokes which are installed on both side of the manifold cross. Steel isolation gate valves are installed between both chokes and the cross, and also downstream of both chokes.
5. Includes a blooey line which runs straight through the cross and is isolated by a steel gate valve.
6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
7. Returns through the choke manifold must be divertible through a mud-gas separator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.
8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.



6. Includes a valve isolated pressure gauge suitable for drilling service which can display the casing pressure within view of the choke operator.
7. Returns through the choke manifold must be divertible through a mud-gas separator and then be routed to either the shale shaker or the reserve pit through a buffer tank or manifold arrangement.
8. If the choke manifold is remote from the wellhead, a third master valve should be installed immediately upstream of the manifold cross.

5. KILL LINES

A. INTRODUCTION

The kill line is an emergency line used for high pressure pumping into a closed-in well when circulation down the drillpipe cannot be established. This situation most often occurs when there is no pipe in the hole at all or if the drillstring becomes plugged and bullheading is required.

The primary kill line is manifolded to the rig standpipe and is the first choice for pumping into the well. In addition, a remote kill line may be installed which branches off from the primary kill line and runs to the cementing unit (offshore installations) or to a safe location distant from the rig (land installations). Sometimes, an emergency kill line will be installed onto the wellhead, but these are not normally used unless the primary and remote kill lines become inoperative.

Chevron recommends two minimum kill line arrangements; the type "A" kill line and the type "B" kill line. The type "A" kill line is suitable for installation on Class II wells, and the type "B" kill line is designed for Class III, IV and V wells.

Kill lines are an integral piece of well control equipment and must be installed, inspected, tested and maintained in the same manner as other pieces of well control equipment.

B. GENERAL KILL LINE SPECIFICATIONS

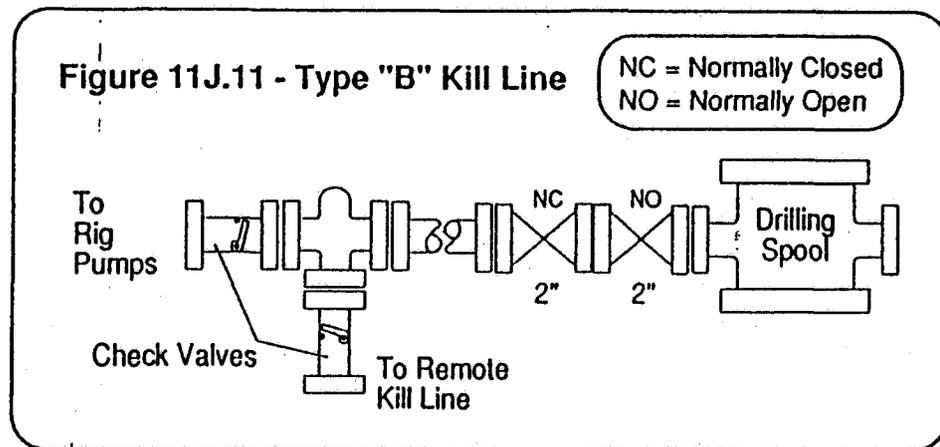
The following general specifications apply to all kill lines.

1. All kill line components which may be exposed to well pressure must have a working pressure rating equal to or greater than that of the preventer stack in use.
2. The minimum nominal internal diameter of all kill line components is 2" (includes lines, fitting, and valves).
3. Kill lines should be run in a straight line with a minimum of turns. All turns must be targeted in the direction of pumping into the well.
4. Kill lines should be securely anchored to reduce vibrations while circulating.
5. All kill line valves installed on drilling wells must be of full-opening gate valve construction.
6. All gauges should have the proper pressure rating and be designed for drilling service.

D. TYPE "B" KILL LINE — CLASS III, IV, AND V WELLS

The type B kill line described below in Figure 11J.11 is the minimum recommended hookup for installation on all Class III, Class IV and Class V wells. Specific design features of the type B kill line include:

1. The preferred kill line connection to the well is at the drilling spool, however, a preventer side outlet may be used when space restrictions exclude the use of a drilling spool. In all cases, the kill line must be installed below the uppermost blind rams so the well can be pumped into with no pipe in the hole.
2. The arrangement includes two - 2" (nominal) gate valves installed at the drilling spool and an upstream fluid cross. The outside valve may be hydraulically remote controlled.
3. Two pump-in lines should be attached to the fluid cross. The primary kill line should be routed to the rig standpipe where it can be manifolded to the rig pumps. The remote kill line should be run to a safe location away from the rig or to the rig cementing unit. The remote kill line should have a loose end connection for rigging-up a high pressure pumping unit.
4. Both the primary kill line and the remote kill line must include a 2" check valve which is in working condition while drilling. If a check valve is crippled for testing purposes, the flapper or ball must be re-installed and tested before drilling resumes.
5. The primary kill line must include a pressure gauge which can display the pump-in pressure on the rig floor.
6. Any lines which are installed at the wellhead are designated as "emergency kill lines" and should only be used if the primary and remote kill lines are inoperable.



E. Special Equipment

1. Rotating and Stripper Heads

These units provide a rotating sealing element, so that drilling operations can be continued while the well is pressured. Their pressure ratings are low (2,000-3,000 psi), but they serve a variety of purposes. They are made for sealing a particular pipe size, are self-energizing, and require no external pressure control. In the absence of an annular preventer, these allow protection while handling drill collars or if running casing with the well under pressure.

These units are frequently used on top of ram preventers with low-pressure hookups. However, the practical pressure limit is often considered to be closer to 1,000 psi, provided the rubber seal is in good condition. Strippers are not designed to be drilled through; however, the stripper body may be the lower unit of a rotating BOP (rotating head). These units have rotating seal elements that seal around the kelly joint or any large element except bits and reamers (stabilizers).

Rotating heads have many uses. Wells can be drilled in with oil, light mud, foam, or gas. When drilling is with oil, foam or gas, the units seal the top of the hole around the kelly, with fluids and cuttings diverted out through the "blooey line". Reverse circulation also requires the use of a rotating head. Because annular preventers are not suited to continued drilling, they are often placed below a rotating head in tight formation areas, to allow drilling to continue when circulating out trip gas or allowing some gas to be made while drilling. Most field people consider 500-700 psi as the maximum practical pressure without leakage. A truly high-pressure rotating preventer is not yet available.

Stripping can be accomplished until the cross-sectional areas and pressures overcome weight. Then the pipe must be snubbed.

GEOLOGIC PROGRAM

Field/Area Range Creek Unit II Expl/Dev Dev

Well Name Range Creek Unit #3-7

Location: Sec 7 TWP 18S Range 16E
 Co Emery State UT
 Surface 2200 FSL 700 FEL
 Bottom Hole 2200 FSL 700 FEL

Elevation: GL estimated 6320 Surveyed _____
 KB estimated 6340 Surveyed _____

Total Depth 6553 Fm at TD Morrison

Objectives: Primary Basal Dakota
 Secondary Upper Dakota Buckhorn

Coring:	Formation	Estimated Depth	Amount
Interval/on show	<u>None</u>	_____	_____
Interval/on show	_____	_____	_____
Interval/on show	_____	_____	_____
Interval/on show	_____	_____	_____
Interval/on show	_____	_____	_____

Drill Stem Testing Open hole through Basal Dakota 6065-6145
Upper Dakota 5895-5935
Buckhorn 6370-6403

Mud Logging 2-man unit base surface casing to T.D.

Electric logging:	Surface	Intermediate	Total Depth
1) DIL-SP	_____	_____	_____
2) DIL-MSFL-SP	_____	_____	_____
3) BHC w/GR, Cal.	_____	_____	<u>TD to surf. casing</u>
4) LDT-CNL w/GR, Cal.	_____	_____	<u>TD to surf. casing</u>
5) FDC-CNL w/GR, Cal.	_____	_____	_____
6) Dipmeter	_____	_____	<u>TD to surf. casing</u>
7) Velocity survey	_____	_____	_____
8) RFT	_____	_____	_____
9) DLL-MSFL-GR	_____	_____	<u>TD to surf. casing</u>
10)	_____	_____	_____
11)	_____	_____	_____

All runs from TD to either base of surface casing or overlap with previous log run unless otherwise noted.

GEOLOGIC PROGRAM (Continued)

Tops:

Formation	Estimated Depth, datum	Sample Depth, datum	Log Depth, datum
Mesaverde	Surface (+6320)		
Mancos	2445 (+3895)		
Upper Dakota	5895 (+ 445)		
Basal Dakota	6065 (+ 275)		
Cedar Mountain	6145 ((+ 195)		
Buckhorn	6370 (- 30)		
Morrison	6403 (- 63)		
TD.	6553 (- 213)		

Correlation Wells:

Correlative Zones with Subject Well

	Fm	Interval	
1) Gulf	Basal Dakota	6020-6092	Primary objective
Range Creek #1			XXXXXX
6-18S-16E	Upper Dakota	5850-80	Secondary objective
	Buckhorn	6322-56	XXXXXX
2) Gulf	Basal Dakota	6006-90	Primary objective
Norris #1			XXXXXX
8-18-S-16E	Upper Dakota	6835-65	Secondary objective
	Buckhorn	6314-46	XXXXXX

DIVISION OF INTEREST:

Working Interest Partners:

Chevron	100 %				

Others Receiving Data:

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REMARKS:

Prepared by K. M. Koskelin
 Reviewed by _____
 Formation Evaluation Analyst

Date July 7, 1989
 Date _____

Approved G. L. Smedley

Date 7/13/89

CHEVRON U.S.A. INC.
RANGE CREEK 3-7
SEC 7, T 18S, R 16E
EMERY COUNTY, UTAH

Multipoint Surface Use Plan

1. Existing Roads

A. See Exhibit A. We do not plan to change, alter or improve upon any existing state or county road.

B. The proposed location lies approximately 9 miles east of Woodside, Utah. The route to the location from Price, Utah is shown on attached Topographic Map "A".

2. Planned Access Roads

See Exhibit B. Approximately 500' of new access road will be required.

- A. Width: 18' travel surface.
- B. Maximum grade: No greater than 8%.
- C. Turnouts: None, avoid blind corners.
- D. Drainage Design: Roads to be placed and constructed so that minimal drainage alterations will be made. Water will be diverted around well pad as necessary.
- E. No major cuts and fills.
- F. Surfacing Materials: Gravel if necessary (see item 6-a).
- G. Other: No gates, cattleguards or fence cuts.

3. Location of Existing and/or Proposed Facilities

A. See Map "B".

B. Installation of production facilities will be addressed at a later date if the well is a producer.

C. Disturbed areas no longer needed for operations will be graded back to as near original state as possible. Drainage channels will be returned to original state and the areas will be reseeded.

D. A blooie pit 25'x20 x10' deep will be constructed approximately 150' from the center hole. A line will be placed on the surface from the center hole to the burn pit. The pit will be fenced on four sides to protect livestock.

5. Location and Type of Water Supply

A. Water will be purchased from a private source in the area.

6. Source of Construction Materials

A. All construction materials needed for this location will come commercially from the Price area. Access roads as shown on Map "A".

7. Methods for Handling Waste Disposal

A. Cuttings will be settled out in the reserve pit. The reserve pit will not be lined. The pit will be fenced with a 32" - 48" woven wire to protect wildlife and domestic animals.

B. Drilling fluids will be retained in reserve tanks utilizing maximum recirculation during drilling operations. Following drilling, the liquid waste will be evaporated, the remainder worked into the deep subsoil of the pit, and the pit filled in and returned to natural grade.

C. In the event fluids are produced, any oil will be retained until sold in tankage and any water produced will be retained until its quality is determined. The quality and quantity of water produced will then determine the necessary disposal procedure.

D. Sewage will be disposed of in a 1,000 gallon fiber glass insulated holding tank, which is to be placed in the vicinity of the trailers on the well location. Arrangements will be made for the tanks to be emptied periodically and the sewage hauled to a disposal system in Wellington or Price. The sewage will be hauled by an authorized hauling firm.

E. Trash will be contained in a portable metal container and hauled periodically to an approved disposal site.

F. After the rig has moved from the wellsite, all waste material will be removed to an approved disposal site.

8. Ancillary Facilities

A. Four trailers will be needed on the location to house the tool pusher, drilling rep, mud engineer, and geologist. In the event of winter drilling, a fifth trailer will be needed to house personnel needed for road maintenance.

9. Wellsite Layout

A. Four to six inches of topsoil will be removed from the location and stockpiled. Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil stockpiles will be located as shown on Exhibits C and D.

B. Pits will not be lined.

C. Access to the well pad will be as indicated on Exhibit B.

10. Plans for Restoration of Surface

A. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum. Any rock encountered in excavation will be disposed of beneath backfill to return surface to its present appearance and provide soil for seed growth.

B. The topsoil will be evenly distributed over the disturbed areas and reseeded.

C. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.

D. Any oil accumulation on the pit will be removed, burned or overhead flagged as dictated by then existing conditions.

E. The well will be completed during 1990. Rehabilitation will commence following completion of the well. If the wellsite is to be abandoned, all disturbed areas will be recontoured to the natural contour as is possible.

11. Surface Ownership

A. The wellsite and access road will be constructed on BLM land. The operator shall contact the Bureau of Land Management in Price, Utah at (801) 637-4584 between 24 and 48 hours prior to construction activities.

12. Other Information

A. The well is located on fairly level, rocky ground. The topsoil in the area is sandy shale. Vegetation is sparse due to the arid climate and includes scrub oak, sage brush and native grasses. Fauna includes deer, rabbits and other small rodents.

B. Surface use activities other than the oil well facilities consists livestock grazing.

C. An archeological survey will be required on the wellsite and access road to determine whether any historic sites are present.

13. Company Representative

Mr. D. F. Forsgren
P.O. Box 599
Denver, Colorado 80201
(303) 930-3439

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

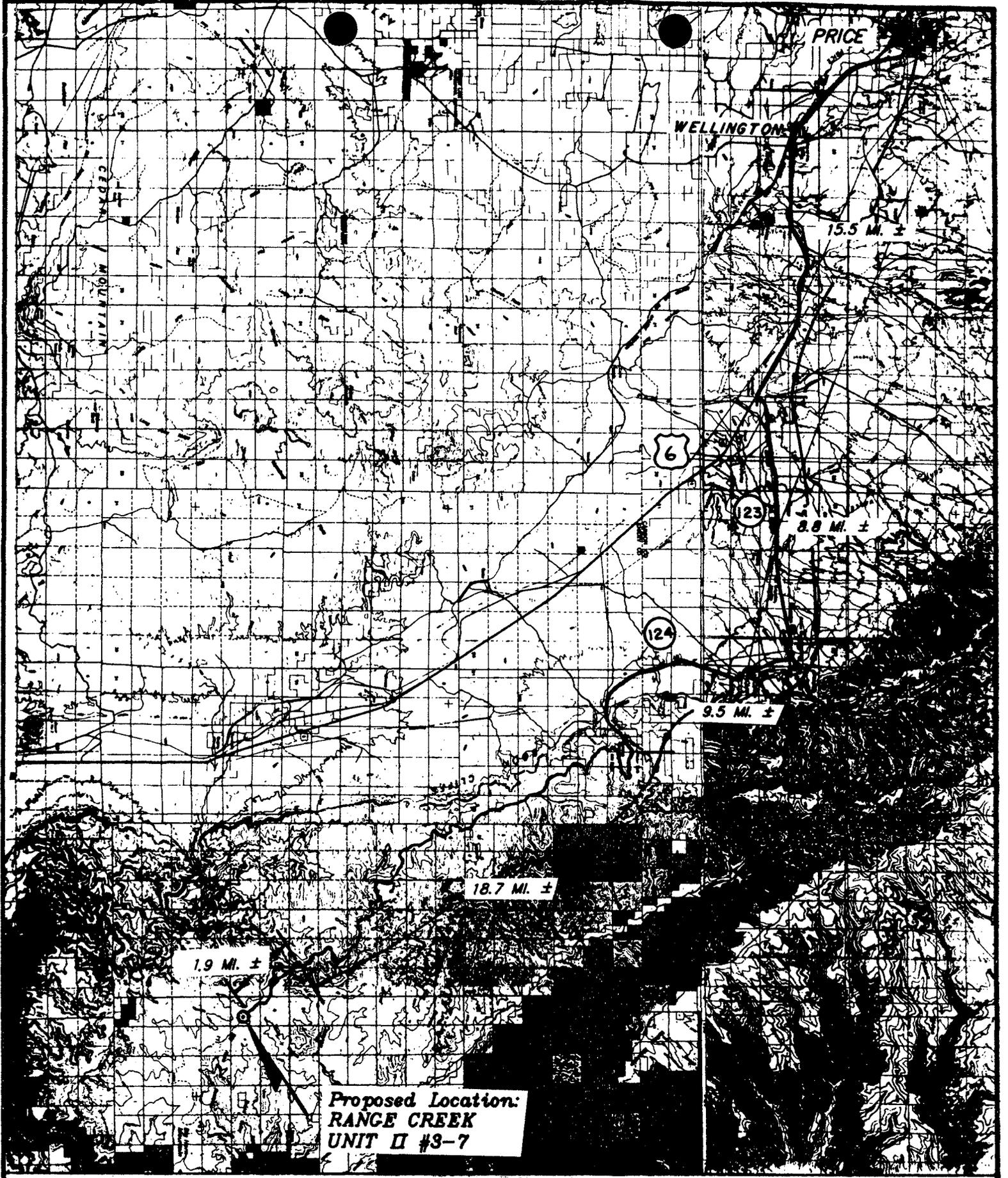
9/11/89

Date

Dean D. Forsgren

D. F. Forsgren
Environment, Safety, Fire and Health
Coordinator

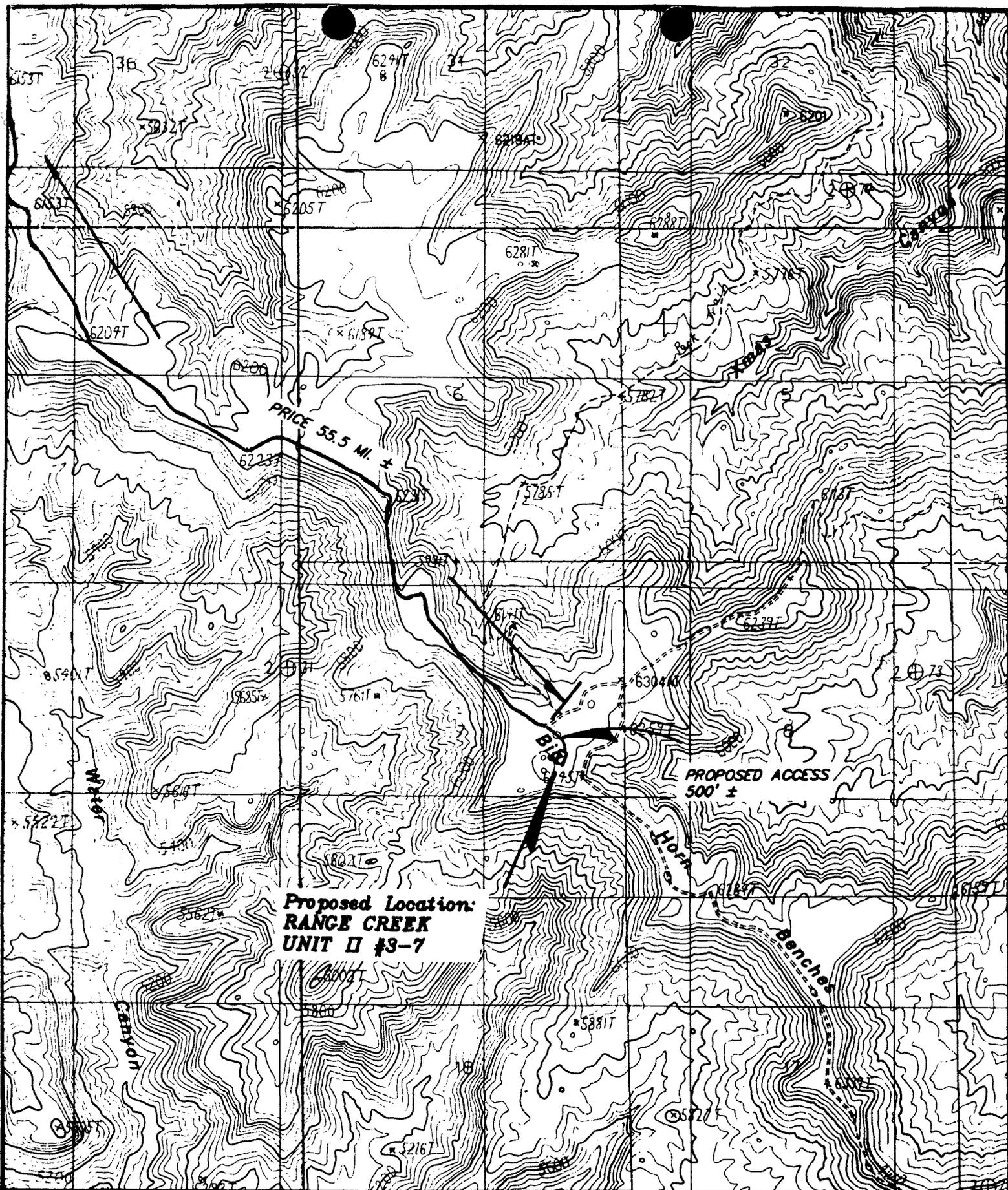
- Exhibit A - Proposed Location and Access Road
- Exhibit B - Proposed Location
- Exhibit C - Location Layout, Cut and Fill
- Exhibit D - Facilities Layout



TOPOGRAPHIC
MAP "A"



CHEVRON U.S.A. INC.
RANGE CREEK UNIT II #3-7
SECTION 7, T18S, R16E, S.L.B.&M.



**Proposed Location:
RANGE CREEK
UNIT II #3-7**

**TOPOGRAPHIC
MAP "B"**



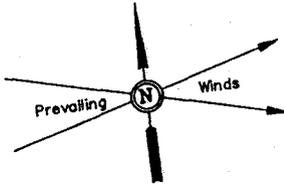
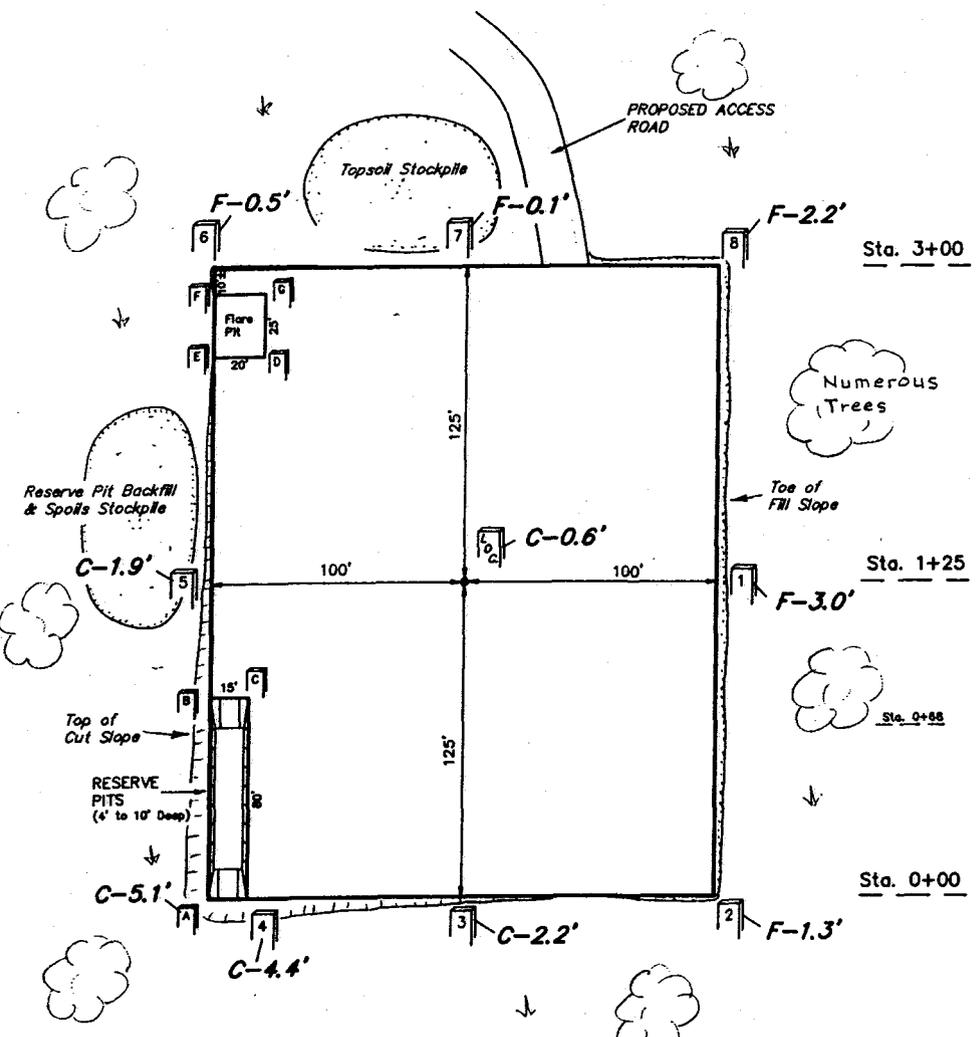
SCALE: 1" = 2000'

CHEVRON U.S.A. INC.

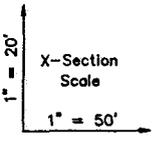
**RANGE CREEK UNIT II #3-7
SECTION 7, T18S, R16E, S.L.B.&M.**

Exhibit "C"

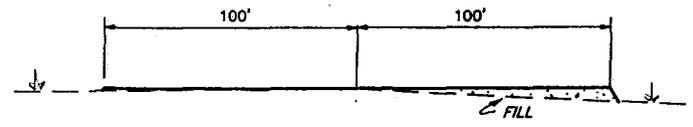
CHEVRON U.S.A., INC.
 LOCATION LAYOUT FOR
 RANGE CREEK UNIT II #3-7
 SECTION 7, T18S, R16E, S.L.B.&M.



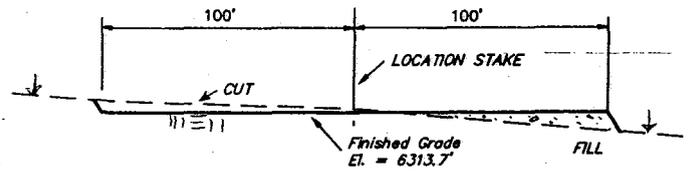
SCALE: 1" = 50'
 DATE: 7-17-89



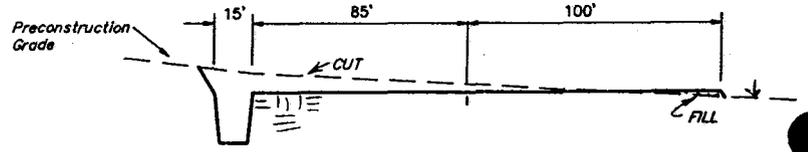
TYP. CROSS SECTIONS
 TYP. LOCATION LAYOUT



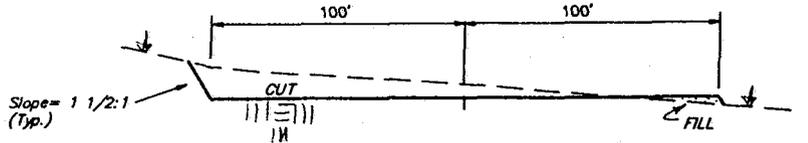
STA. 2+50



STA. 1+25



STA. 0+68



STA. 0+00

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 926 Cu. Yds.
Pit Volume (Below Grade)	= 302 Cu. Yds.
Remaining Location	= 1,168 Cu. Yds.

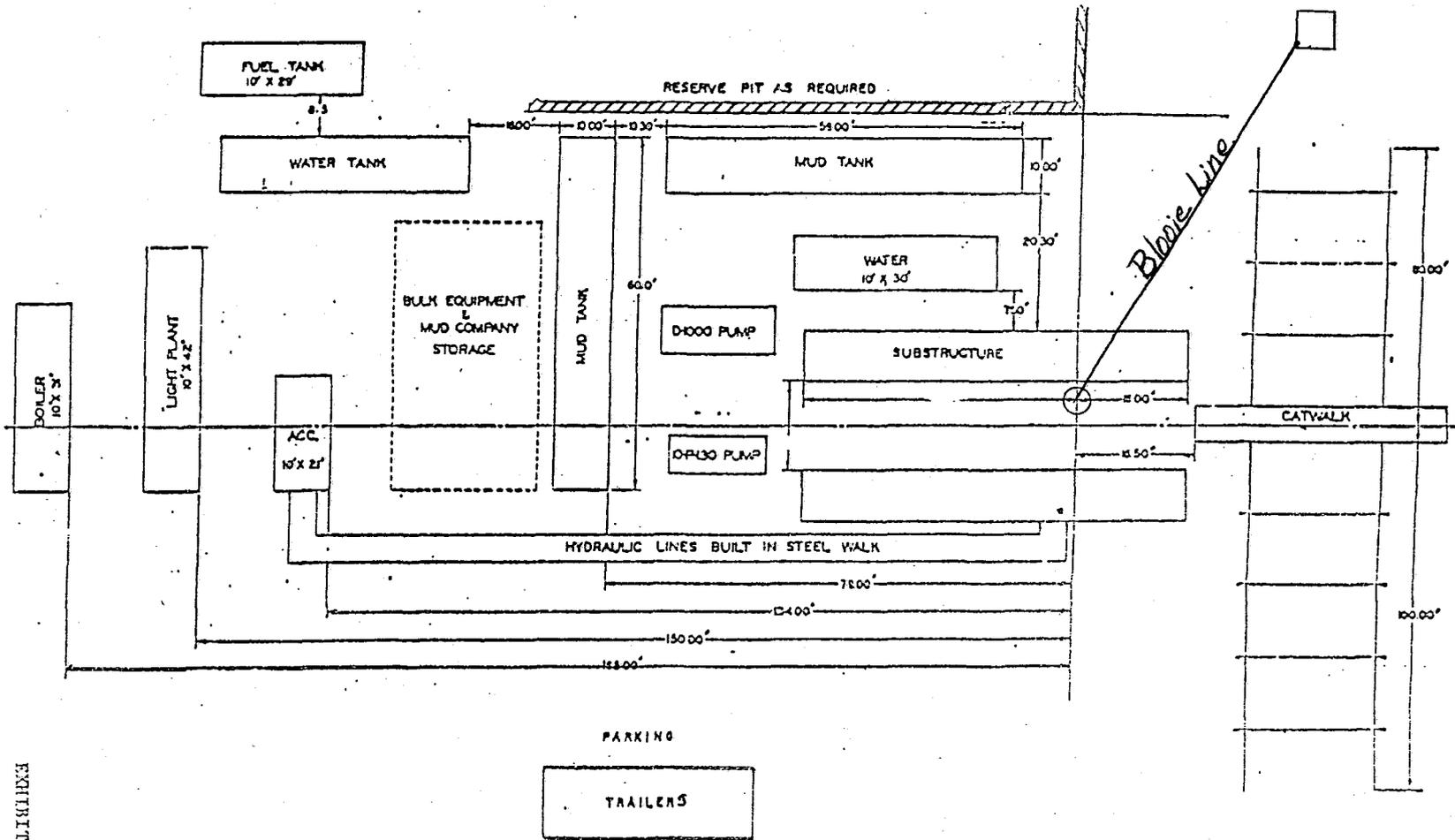
EXCESS MATERIAL AFTER 5% COMPACTION	= 1,098 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,077 Cu. Yds.

TOTAL CUT	= 2,396 CU.YDS.
FILL	= 1,233 CU.YDS.

EXCESS UNBALANCE (After Rehabilitation)	= 21 Cu. Yds.
---	---------------

Elev. Ungraded Ground at Loc. Stake = 6314.3'
 Finished Grade Elev. at Loc. Stake = 6313.7'

UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East Tropic, Utah



OPERATOR Chevron USA Inc. (No210) DATE 9-15-89

WELL NAME Range Creek 3-7

SEC NESE 7 T 18S R 16E COUNTY Emery

43-015-30234
API NUMBER

Federal
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'
Need Water Permit
New Unit - Range Creek II (Has been submitted to the BLM, not approved)
Unit Approved eff. 9-27-89. (This is the first of two obligation wells)

APPROVAL LETTER:

(Range Creek Unit does not involve any of sec. 7)

SPACING: R615-2-3

Range Creek II
UNIT

R615-3-2

N/A
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1. Water Permit

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

SUBMIT IN TRIPLICATE*
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

LCR

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Chevron U.S.A. Inc., Room 13097		8. FARM OR LEASE NAME Range Creek	
3. ADDRESS OF OPERATOR P.O. Box 599, Denver, CO 80201		9. WELL NO. #3-7	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2,212' FSL, 997' FEL		10. FIELD AND POOL, OR WILDCAT Cedar Mountain Dakota Buckhorn	
14. PERMIT NO.		12. COUNTY OR PARISH Emery	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) Un Gr: 6,314'		13. STATE UTAH	

SEP 25 1989
OIL GAS

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	Revise APD <input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion, on Well Completion or Recompletion Report and Log form.)	

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

Footages shown on APD dated 9-5-89 should be changed to 2,212' FSL & 997' FEL as shown on plat.

OIL AND GAS	
DRN	RJF
JRB	GLH
DTS	SLS
MICROFILM	
FILE	

2-TCR 9-26-89

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

SIGNED J.P. Watson TITLE Technical Assistant DATE 9-15-89

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

October 4, 1989

Chevron U.S.A. Incorporated
P. O. Box 599
Denver, Colorado 80201

Gentlemen:

Re: Range Creek 3-7 - NE SE Sec. 7, T. 18S, R. 16E - Emery County, Utah
2212' FSL, 997' FEL

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule R615-2-3, Oil and Gas Conservation General Rules, subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

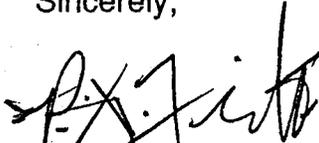
In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-015-30234.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

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

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

MICROFILM

OPERATOR CHEVRON USA INC. LEASE _____
WELL NO. RANGE CREEK # 3-7 API 43 015 30234
SEC. 07 T. 18S. R. 16E. CONTRACTOR _____
COUNTY EMERY FIELD WILDCAT / RANGE CREEK

DRILLING/COMPLETION/WORKOVER:

<input type="checkbox"/> APD	<input checked="" type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> BOPE
<input type="checkbox"/> SAFETY	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> SURFACE USE	<input type="checkbox"/> PITS
<input type="checkbox"/> OPERATIONS	<input type="checkbox"/> OTHER		

SHUT-IN _____ / TA _____ :

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> SAFETY
<input type="checkbox"/> OTHER			

ABANDONED:

<input type="checkbox"/> MARKER	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> REHAB.	<input type="checkbox"/> OTHER
---------------------------------	---------------------------------------	---------------------------------	--------------------------------

PRODUCTION:

<input type="checkbox"/> WELL SIGN	<input type="checkbox"/> HOUSEKEEPING	<input type="checkbox"/> EQUIPMENT*	<input type="checkbox"/> FACILITIES*
<input type="checkbox"/> METERING*	<input type="checkbox"/> POLL. CONTROL	<input type="checkbox"/> PITS	<input type="checkbox"/> DISPOSAL
<input type="checkbox"/> SECURITY	<input type="checkbox"/> SAFETY	<input type="checkbox"/> OTHER	

GAS DISPOSITION:

<input type="checkbox"/> VENTED/FLARED	<input type="checkbox"/> SOLD	<input type="checkbox"/> LEASE USE
--	-------------------------------	------------------------------------

LEGEND: Y - YES OR SATISFACTORY
N - NO OR UNSATISFACTORY
NA - NOT APPLICABLE

*FACILITIES INSPECTED: LOCATION,

REMARKS: DPL - LOCATION STAKED, NO ROAD OR SPUD

ACTION: OK

INSPECTOR: M.D. LAINE DATE 5/24/90

RECEIVED

NOV 26 1990

3162 (U-065)
(U-37806)

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

DIVISION OF
OIL, GAS & MINING

NOV 23 1990

Chevron U.S.A., Inc.
P. O. Box 599, Room 13097
Denver, Colorado 80201

Re: Application for Permit to Drill
Well No. Range Creek 3-7
NESE Sec. 7, T. 18 S., R. 16 E.
Emery County, Utah
Lease U-37806

43-015-30234

Gentlemen:

The Application for Permit to Drill the referenced well was received September 12, 1989. We are in receipt of your letter dated June 28, 1990 requesting us to withdraw the above referenced application.

In view of the foregoing, this office is returning your Application for Permit to Drill unapproved. At a future date, if you intend to drill at this location a new application must be submitted.

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

Sincerely yours,

/S/ WILLIAM C. STRINGER

Assistant District Manager
Mineral Resources

Enclosure:
Application for Permit to Drill

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

VButts:vb:11/21/90



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

November 28, 1990

Chevron U.S.A., Inc.
P.O. Box 599 Room 13097
Denver, Colorado 80201-0749

Gentlemen:

Re: Well No. Range Creek 3-7, Sec. 7, T. 18S, 16E, Emery County, Utah
API No. 43-015-30234 LA

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

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

Sincerely,

Don Staley
Administrative Supervisor
Oil and Gas

DME/lde

cc: R.J. Firth
Bureau of Land Management - Moab
Well file

WOI196