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SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐
SINGLE ZONE ☒ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
CHEVRON U.S.A. INC.

3. ADDRESS OF OPERATOR
P. O. BOX 599, DENVER, COLORADO 80201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface 2640' FSL and 660' FEL (NESE) Elongated Section

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
± 10 Miles Southwest of Yampa, Colorado

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE
2,291

17. NO. OF ACRES ASSIGNED
TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. ± 4,995'

19. PROPOSED DEPTH
5,600'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL 9,304'

Sawatch

22. APPROX. DATE WORK WILL START*
September, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	100'	To Surface
12 1/4"	9 5/8"	47#	1,380'	To Surface
8 1/2"	5 1/2"	15.5#	5,600'	To Surface

It is proposed to drill this exploratory well to a depth of 5,600' to test the Sawatch Formation.

Attachments: Certified Plat
Drilling Program
Chevron Class III BOPE and Diverter
Multipoint Surface Use Plan

100% EY2 NE
100% NESE rest of
75% of section 19

3 - BLM
2 - STATE
1 - ALF
1 - FF

1 - LIT 16700
1 - Sec 124C

DELR. NO. 99999
FIELD NO. 99999

LEASE NO. 374 WTE
FORM CD.

Completion procedure to be submitted by Sundry Notice.

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 R. Brown TITLE Engineering Assistant DATE August 8, 1984

(This space for Federal or State office use)

PERMIT NO. 841109 APPROVAL DATE AUG 15 1984 Expiration DEC 13 '84

APPROVED BY William R. Smith TITLE DIRECTOR DATE AUG 15 1984
CONDITIONS OF APPROVAL, IF ANY: D & G Cons. Comm.



02358325

A.P.I. NUMBER

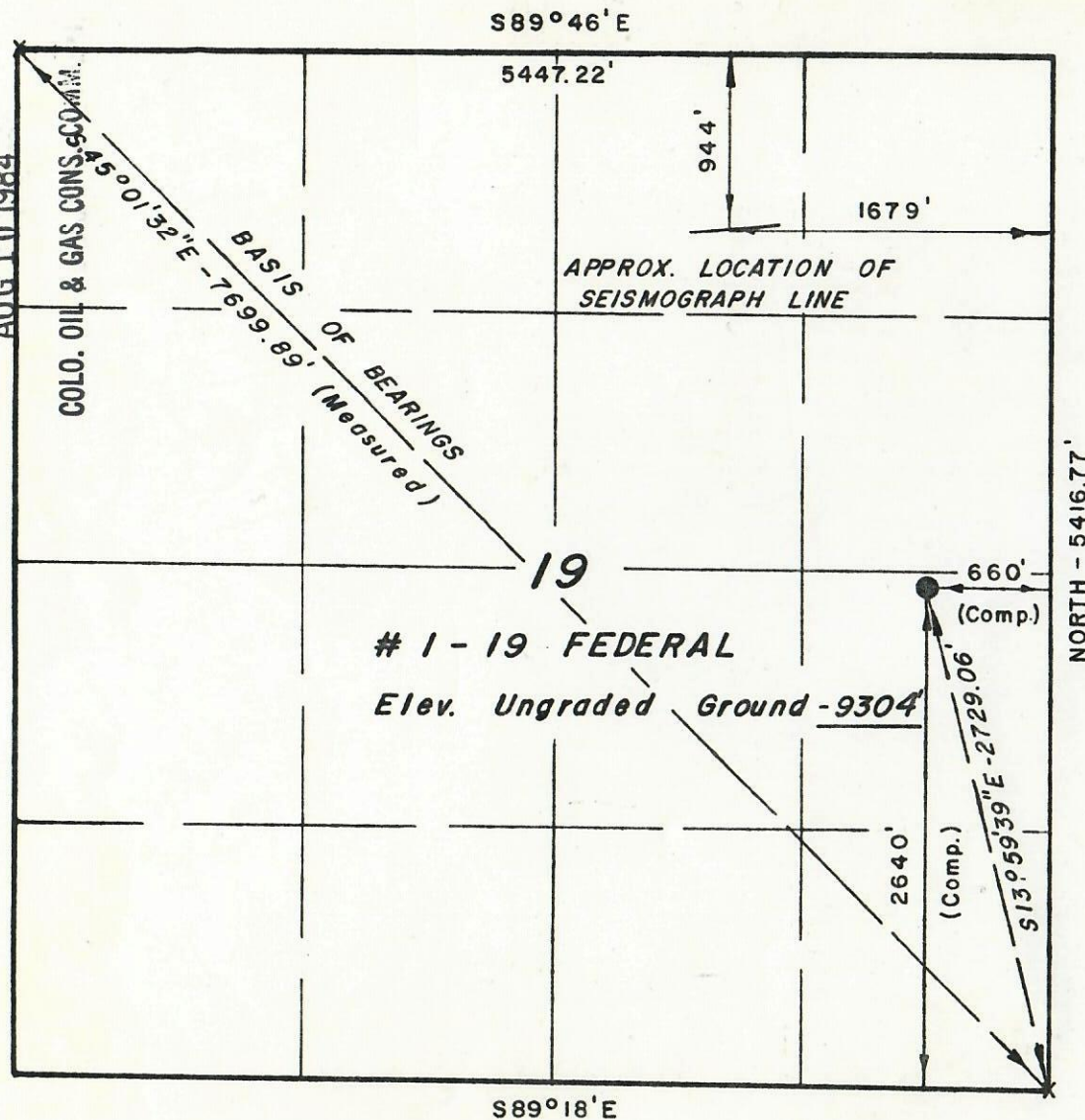
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CHEVRON U.S.A. INC.

Well location, # 1-19 FED,
located as shown in the NE 1/4
SE 1/4 Section 19, T1N, R85W,
6th P.M. Routt County, Colorado.



X = Section Corners Located



THIS IS TO CERTIFY THAT THE ABOVE PLAY 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.

REGISTERED LAND SURVEYOR
REGISTRATION NO 5839
STATE OF COLORADO

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

SCALE	1" = 1000'	DATE	7 / 31 / 84
PARTY	L.D.T. T.H. S.B.	REFERENCES	GLO Plat
WEATHER	Warm	FILE	CHEVRON

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DRILLING PROGRAM

COLO. OIL & GAS CONS. COMM.

Field Egeria Creek Area Well Chevron-Federal 1-19 Exp/Dev Exp.

Location 660' FEL and 2640' FSL, Sec. 19; T-1N; R-85W; Routt Co., Colorado

Drill X Deepen Elevations: GL 9304' KB 9324' est.

Directional/Straight Hole: Proposed Measured TD 5600' Straight Hole TVD 5600'

KOP Build Max. Angle Avg. Angle

Target Location Bearing from Surface

1. Conductor Hole

Hole Size 20" Proposed Depth 100' Casing Size, Weight & Grade 16", 65#, H-40

2. Surface Hole

Hole Size 12 1/4" Proposed Depth 1380 BOPE Diverter System

Mud Program: Type MW FV WL Other

Gyp Mud + 8.5 40 Less than 10cc

Potential Hazards: Swelling, wtr. sensitive shales

Electric Logging Program: None

Core/DST Program: None

Casing Program:

Size	Grade	Weight	Thread	Section Length
<u>9 5/8"</u>	<u>N-80</u>	<u>47#/ft</u>	<u>LT & C</u>	<u>1380'</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

Cement Program: Lead-Slurry Cement to surface; tailored for depth and temperature

Tail-Slurry

WOC Time 12 hrs. Casing Test 1500 psi Shoe test MWE 10.0 PPG

3. Intermediate Hole N.A.

Hole Size Proposed Depth BOPE

Mud Program: Type MW FV WL Other

Size	Grade	Weight	Thread	Section Length
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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Potential Hazards:

Electric Logging Program:

Core/DST Program:

Casing Program:

Size	Grade	Weight	Thread	Section Length
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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Cement Program: Lead Slurry

Tail Slurry

WOC Time hrs. Casing Test psi Shoe test MWE PPG



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Page 2

Drilling Program

COLO. OIL & GAS CONS. COMM Well Chev.-Fed. 1-19

4. Oil String/Liner Hole

BOPE will be tested to 2,500 psi
 Hole Size 8 1/2" Proposed Depth 5600' BOPE 5,000 psi W.P. Chevron Class III
 Mud Program: Type MW FV WL Other
Dispersed 9.0 40 10cc or less

Potential Hazards: Water sensitive shales. Possibility of thin salt and/or Anhydrite sections.Electric Logging Program: DIL; BHC; CNL-FDC; HDT & Check ShotCore/DST Program: 7 cores; 3 DST's Anticipated on Shows

Casing Program:

Size	Grade	Weight	Thread	Section Length
<u>5 1/2"</u>	<u>K-55</u>	<u>15.50</u>	<u>LT & C</u>	<u>5600'</u>

Cement Program: ~~Lead Slurry~~ Cement to Surface; tailored for depth and temperature.
~~Tail Slurry~~ Vol. to be calc. from open hole caliper

WOC Time 24 hrs. Casing Test 1500 psi

5. Auxiliary Equipment

Mud Logging Unit @	<u>Spud</u>	Rotating Head @	<u>N/A</u>
Geolograph @	<u>Spud</u>	Degasser @	<u>Spud</u>
Visulogger @	<u>N/A</u>	Desilter @	<u>Spud</u>
Adj. Choke @	<u>1380</u>	Centrifuge @	<u>Spud</u>
PVT & Flowmeter @	<u>Spud</u>	Mud Cleaner @	<u>Spud</u>
Trip Tank @	<u>Spud</u>	H ₂ S Safety Equip. @	<u>N/A</u>
Other:	<u>Mud-Gas separator @ 1380'. Inside BOPE and Full opening safety valve @ Spud.</u>		

6. Drill String Design

Surface Hole:

BHA Bit; bit sub w/Float, 2-D.C.; IBS; Sufficient D.C. for 40,000# Available bit wt.Drill Pipe API premium class designed for 100,000# overpull per API RP7G 10th ed.Intermediate Hole: N/A

BHA

Drill Pipe

Oil String/Liner Hole:

BHA Bit; bit sub w/Float; 2-D.C.; IBS; Sufficient D.C. for 50,000# Available bit wt.Drill Pipe API premium Class designed for 100,000# overpull per API RP7G 10th ed.

7. Other

Inspect BHA after 200 rotating hours.In "straight" holes run inclination surveys every 240 feet.Gyro Surveys None anticipatedCheck drilling breaks for flow below 1380 feet.Fill drill pipe every 5 stds when running float.

8. General Remarks

Attached

9. Geologic Program

Attached

Prepared By S. L. IceDate 7-19-84

Drilling Superintendent


 Date 7/20/84

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GEOLOGIC PROGRAM

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COLO. OIL & GAS CONS. COMM.

Field/Area EGERIA CREEK Expl/ EXPLORATION

Well Name CHEVRON FEDERAL #1-19

Location: Sec 19 TWP 1 N Range 58W
Co Routt State Colorado
Surface 2640' FSL and 660' FEL
Bottom Hole 2640' FSL and 660' FEL

Elevation: GL estimated Surveyed 9304'
KB estimated Surveyed 9324' Est.

Total Depth 5600' Fm at TD PreCambrian

Objectives: Primary Paleozoic
Secondary Mesozoic

Coring:	Formation	Estimated Depth	Amount
Interval/		2060	180
Interval/		2660	120
Interval/		5170	120
Interval/on show			
Interval/on show			

Drill Stem Testing Estimate 3 DST's

Mud Logging Two man unit Surface to TD

Electric logging:	Surface	Intermediate	Total Depth
1) DIL-SP			
2) DIL-MSFL-SP	X		X
3) BHC w/GR, Cal.	X		X
4) LDT-CNL w/GR, Cal.	X		X
5) FDC-CNL w/GR, Cal.			
6) Dipmeter	X		X
7) Velocity survey			X
8) RFT			
9)			
10)			
11)			

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



Aug 10 1984

COLO. OIL & GAS CONS. COMM.

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[illegible]

Correlative Zones with Subject Well

	Fm	Interval	
1)			Primary objective zones to be cored.
			Zone to be DST.
2)			Primary objective zones to be cored.
			Zones to be DST.

Working Interest Partners:

Chevron	100%				
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	%	%	%	%	%

H₂S is not expected. Chevron will drill the well as a tight hole.

Prepared by J. A. H. H. H.
Reviewed by J. A. H. H. H.
Formation Evaluation Analyst

Date 8/8/84
Date 8-8-84

Approved [Signature]

Date 8/8/84

FLOW LINE
FILL UP LINE

ANNULAR
PREVENTER

BLIND RAMS

2"-4" STEEL VALVES

"E"

DRILLING
SPOOL

"B"

"C"

4" LINE

3" or 4" STEEL VALVE

DRILL PIPE
RAMS

WHILE DRILLING, BOTH
VALVES ARE KEPT CLOSED

UNCOUPLLED
HALF UNION

2" STEEL VALVES

CASING SPOOL SHOULD BE
POSITIONED SO THAT THESE
VALVES ARE DIRECTLY UNDER
THE BARREL OF THE RAM
PREVENTER.

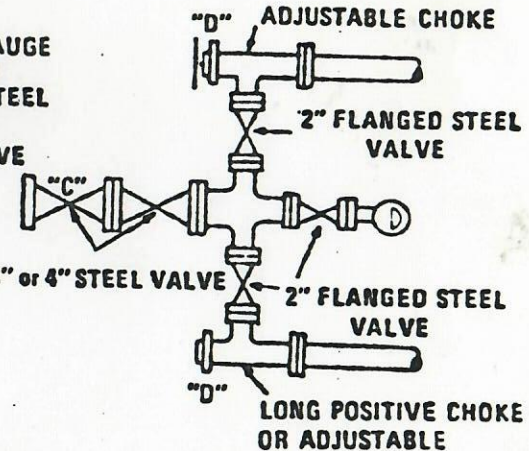
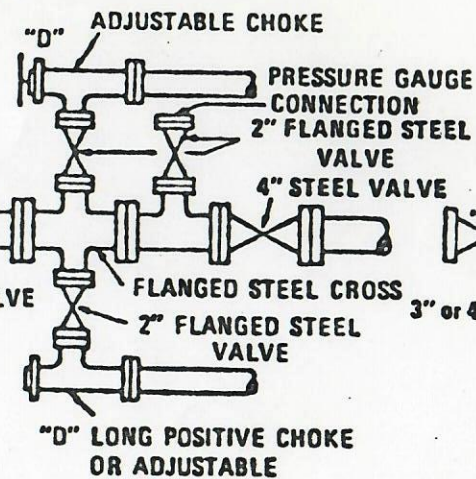
HYDRAULIC VALVE

FIGURE 4
THREE PREVENTER HOOKUP
CLASS III

(PRESSURE RATING 3-5000 PSI AS REQUIRED)

EMERGENCY FLOW HOOKUP

ALTERNATE CHOKE MANIFOLD



AN EXTRA SET OF DRILL PIPE RAMS AND BONNET SEALS
WILL BE ON LOCATION AT ALL TIMES.

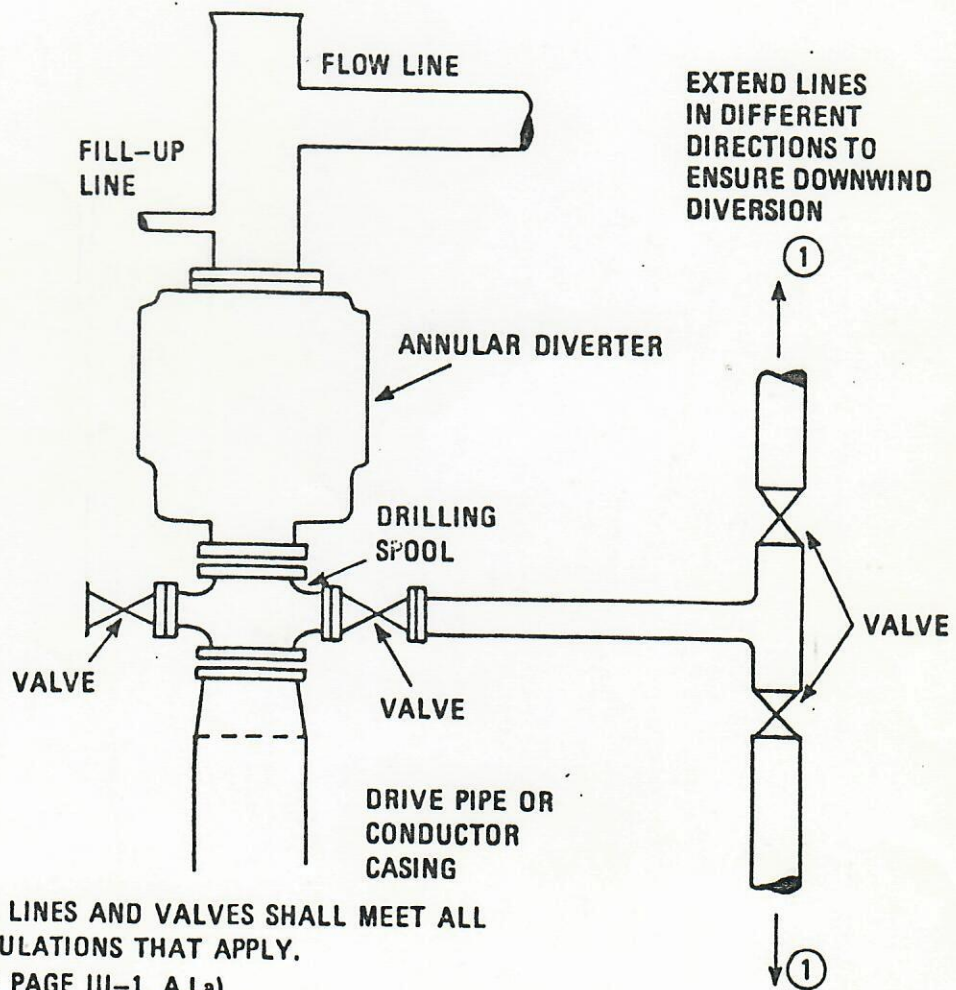
Chevron U.S.A. Inc.
ROCKY MTN. PRODUCTION DIVISION



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LE 81-7511
Revision 4 (1982)

FIGURE III-1
DIVERTER-PREVENTER HOOKUP



NOTE: ALL LINES AND VALVES SHALL MEET ALL
REGULATIONS THAT APPLY.
(SEE PAGE III-1, A.I.a)

