

STATE OF COLORADO  
OIL AND GAS CONSERVATION COMMISSION  
DEPARTMENT OF NATURAL RESOURCESRECEIVED  
JUL 27 1984  
OIL & GAS CONS. COMM.APPLICATION  
FOR PERMIT TO DRILL, DEEPEN, OR RE-ENTER AND OPERATE

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ RE-ENTER ☐

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

2. NAME OF OPERATOR TREND EXPLORATION LIMITED

3. ADDRESS OF OPERATOR 777 Grant Street, Suite #600 Denver, Colorado 80203

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At surface 440' FNL, 1423' FWL of NE/4 *measured from NE 1/4 sec lines 1235 FE*  
At proposed prod. zone 600' FNL, 1150' FWL of NE/4

5. LEASE DESIGNATION AND SERIAL NO. 1-16

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME BUCK PEAK

9. WELL NO. 2-16

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 16-T6N-R90W

12. COUNTY MOFFAT 13. STATE COLORADO

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 3 miles NW of Craig

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 600' @ btm hole 400' @ Surface

16. NO. OF ACRES IN LEASE\* 640

17. NO. OF ACRES AND/OR DRILLING UNIT ASSIGNED TO THIS WELL 160

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. @TD 1200'

19. PROPOSED DEPTH 8090' TVD

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6524.6' GL, @ TD 6503.1'

22. APPROX. DATE WORK WILL START 7-1-84

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	23#, 20#	+6770'	250 sx (355 cu ft)
6 1/4"	4 1/2"	11.6#	8090'	140 sx (275 cu ft)

24. IS SURFACE OWNER A PARTY TO LEASING AGREEMENT? YES ☐ NO ☒ *state lease*
- If NO, surface bond must be on file. Colorado Blanket Bond is on file with the State of Colorado
- \*DESCRIBE LEASE NOTE: THIS WELL IS BEING DRILLED AS A REPLACEMENT WELL FOR THE STATE 1-16 or an in-fill well. The prognosis is attached.

The lease is 640 acres of which 160 is dedicated to the State 1-16. ✓

OPER. NO. 89450  
DRLR. NO. 07675  
FIELD NO. 07675  
LEASE NO. 07675  
FORM CD. NBRR

24. SIGNED Jean M. Inuse TITLE Production Supervisor DATE 6/18/84

(This space for Federal or State Office use)

PERMIT NO. 84846 APPROVAL DATE JUL - 2 1984 EXPIRATION DATE OCT 30 '84

APPROVED BY William R. Smith TITLE DIRECTOR  
O & G Cons. Comm. DATE JUL - 2 1984

CONDITIONS OF APPROVAL, IF ANY:



00213144

See Instructions On Reverse Side

A.P.I. NUMBER

05 081 6590

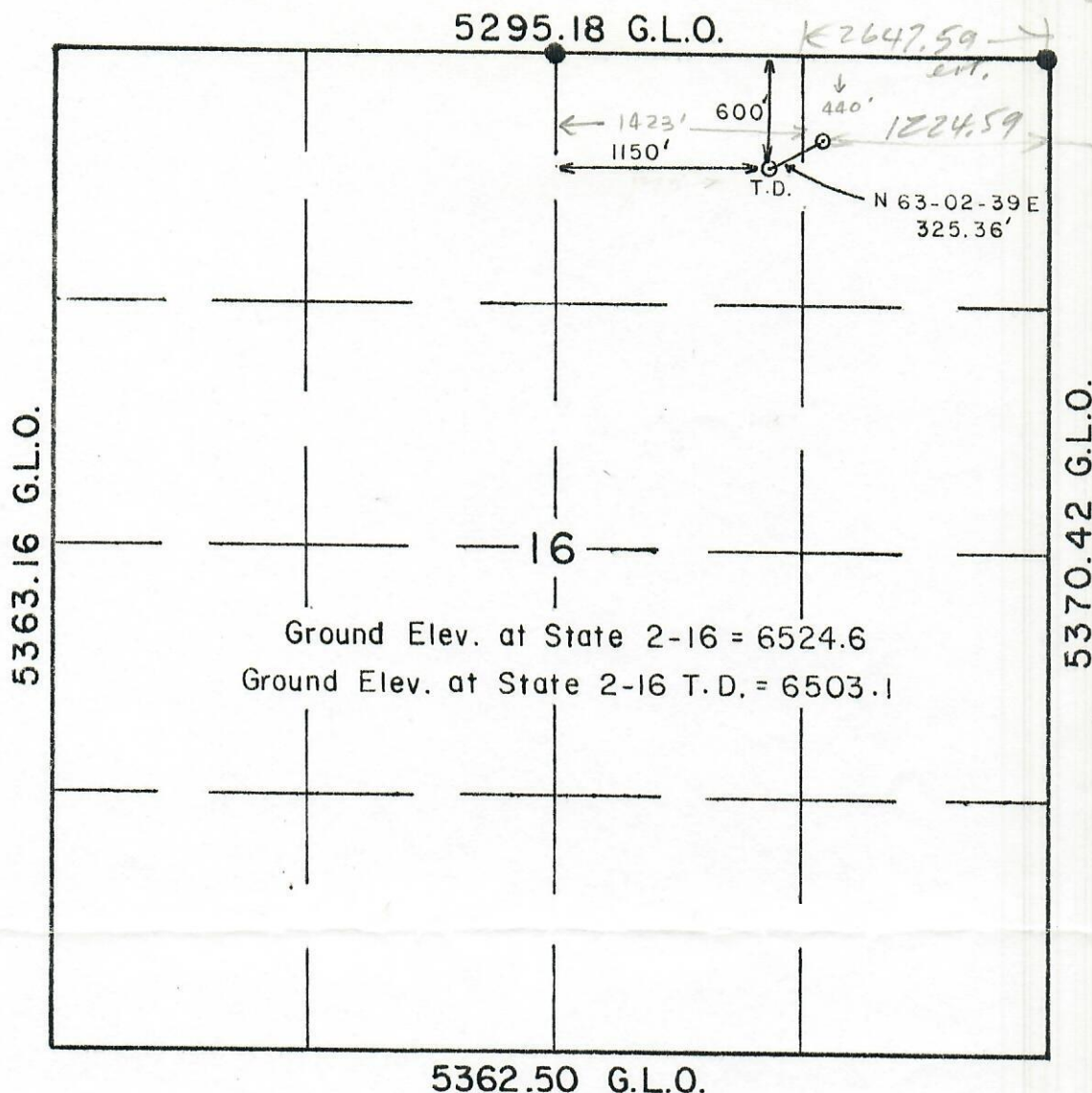


# R 90 W

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COLD. OIL & GAS CONS. COMM.



# T 6 N

● = Brass Cap found and used

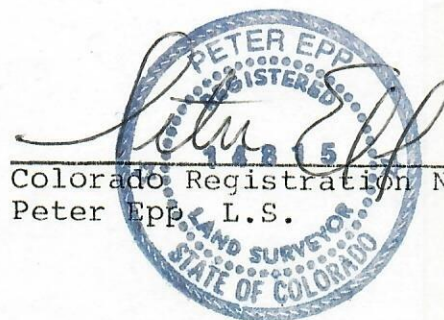
SCALE 1" = 1000'

E & C Consulting, Inc. of Craig, Colorado has in accordance with a request from TREND EXPLORATION of DENVER, COLORADO determined the location of State 2-16 to be 600 FNL and 1150 FWL, Section 16, Township 6 North, Range 90 West of the 6th P.M., Moffat County, Colorado.

I hereby certify that this plat is an accurate representation of a correct survey showing the location of State 2-16 .

DATE:

6-11-84



Colorado Registration No. 14815  
Peter Epp, L.S.

DRILLING PROGNOSIS  
State 2-16

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1. MI and drill mouse and rat hole. Set  $\pm$  40' of 13-3/8" conductor pipe and cement in place.
2. MI rig and spud 12-1/4" to  $\pm$  400'. Monitor cuttings to insure all coal beds will be behind surface pipe. Continue drilling if coal is still present @  $\pm$  400'. Circulate hole clean adding gel and lime as required to stabilize hole.
3. Run 9-5/8" surface casing and cement in place per attached Western Company cementing recommendation. Circulate cement to surface and drop plug. Use guide shoe and float collar on casing.
4. WOC  $\pm$  12 hours.
5. Install 9-5/8" x 10" 900 casing head. NU BOP etc.
6. Drill/out and run single shot surveys until build is sufficient to require directional survey.
7. Drill 8-3/4" hole to 6770' (Top of Niobrara) and monitor direction and angle as required. Drill with water running gel and lime sweeps to efficiently clean hole. Maintain viscosity @ 27-30 with MW @ 8.3 - 8.6. Annular velocity around drill pipe should be  $\pm$  120 ft/min. Start converting mud system to a Dispersall Basic "K" @  $\pm$  3100. Directional work may need to be performed depending on bottom hole location during the drilling of this interval.

NOTE: Top of Niobrara should be @  $\pm$  650' FNL and  $\pm$  1150' FWL.

8. Circulate and condition hole for intermediate logs per attached program.
9. Rig up and run 7" casing per attached program.
10. Cement per attached program using regular fill float collar and guide shoe.
11. Pick up 4-3/4" DC's and BHA and 3-1/2" DP. Charge rams in stack.
12. RU compressor and rotating equipment to drill with an aerated mud, if necessary. Lower MW to  $\pm$  8.6 ppg and commence drilling 6-1/4" hole. Drill to TD of 8090' TVD and circulate and condition for logs per attached program.
13. If productive, run 4-1/2" liner with accessories per attached program.



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Drilling Prognosis

State 2-16 - Page Two

14. Cement stages and volumes will be determined after log evaluation. Follow Mountain States prognosis for cementing procedure.
15. RD and move off.

## TREND EXPLORATION LIMITED

## DRILLING WELL PROGNOSIS

WELL NAME State 2-16  
 TYPE WELL Development - Niobrara  
 FIELD/AREA Buck Peak/Moffat County, Colorado

APPROX. LOCATION (SUBJECT TO SURVEY) Surface 440' FNL and 1423' FWL

EST. G.L. ELEVATION 6524' PROJECTED TD 8094' OBJECTIVE Niobrara

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COAL. OIL & GAS CONS. COM. 11

HOLE SIZE	CASING PROGRAM	LOGGING PROGRAMS	MAX DEV.	DEPTHS AND FORMATION TOPS	SPECIAL INSTRUCTIONS
RR	13-3/8"	GR (thru dsg)		$\pm 40'$	<p>SAMPLES: None planned.</p> <p>CORES: None planned</p> <p>DST's: None planned, unless required to complete open hole evaluation</p> <p>DEVIATION CONTROL See attached DIG program.</p> <p>CEMENT Circulate surface: Intermediate <math>\pm 1000'</math> above shoe liner. See attached programs.</p> <p>MUD See attached program            0'-3100' Water            3100 -6770' Dispersall Basic            6770 -8070' Dispersall Basic</p> <p>OTHER: Target area @ top of Niobrara is 650' FNL &amp; 1150' FWL with a <math>\pm 50'</math> radius tolerance. Fault A to be @ 700' FNL &amp; 1100' FWL @ -695' subsea depth.</p>
12 3/4"	9-5/8"	GR		$\pm 400'$	
		(thru dsg)		(Water Board) $+ 50'$	
				2265' $\pm$	
				Trout Creek	
				3414' $\pm$	
-3/4"	7"	GR/DIL/FDC		Mancos	
				4364' $\pm$	
				Morapos	
				6506' $\pm$	
				Bentonite Marker	
				$\pm 6770'$	
				Niobrara	
6 1/4"	4 1/2" Liner	GR/DIL/Sonic Acoustic Frac/Spec.		8094	

REGISTRAR:

*Rene Meun*

DATE

6-20-84

ENGINEERING APPROVAL:

OPERATIONS APPROVAL:

STATE 2-16  
CASING PROGRAM

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	<u>Hole Size</u>	<u>Casing Size</u>	<u>Depth</u>
Conductor	RR	13-3/8"	40' ±
Surface	12-1/4"	9-5/8"	400' ±
Intermediate	8-3/4"	9-5/8"	400' ±
Production	6-1/4"	4-1/2" Liner	8090'

PIPE DESIGN

	<u>Size</u>	<u>Interval</u>	<u>Amount</u>	<u>Type</u>
Conductor	13-3/8"	0- 40' ±	40' ±	61# K-55
Surface	9-5/8"	0- 400' ±	400' ±	36# K-55 ST&C
Intermediate	7"	0-3500'	3500'	20# K-55 LT&C
	7"	3500-5800'	2300'	23# K-55 LT&C
				(6-1/4" Special Drift)
	7"	5800-6800'	1000'	23# N-80 LT&C
				(6-1/4" Special Drift)
Production	4-1/2"	6500-8100	1500' ±	11.6# K-55 LT&C

LINER HANGER AND ACCESSORIES

Hanger - 4-1/2" x 7" LCS Double Cone Liner Hanger w/6' tiebacks for hanger.

Float Equipment = 4-1/2" Double Valve Float Shoe

1 - 4-1/2" Landing Collar

2 - 4-1/2" TAM Inflatable Casing Packer

3 - 4-1/2" Arrow Port Collar



# MOFFAT COUNTY PLANNING DEPARTMENT

MOFFAT COUNTY COURTHOUSE  
PHONE 303 824-8221

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JUL 16 1984

221 W. VICTORY WAY  
CRAIG, COLORADO 81625

COLORADO OIL & GAS CONS. COMM.

Date: July 12, 1984

Trend Exploration, Ltd.

777 Grant Street - Suite 600

Denver, CO 80203

Attn: \_\_\_\_\_

Re: Well No. 2-16

Buck Peak - Moffat County

Sect. 16 - T6N - R90W

Dear Gentlemen:

It has come to our attention that the above captioned project is proposed for a site located in Moffat County. You are hereby advised that, pursuant to Section 485(7) of the Moffat County Zoning Resolution, a drilling permit is not required. However, you are responsible for notifying the following entities of your intent to drill:

- Surface owner of the drilling site;
- Surface owner of the access road(s);
- Water District Commissioner, if water source is a flowing waterway;
- Water rights owner, if water source is a well, stock pond, irrigation ditch, etc.;
- County Road Department, if access is off of a County road;
- State Highway Department, if access is off of a State highway;
- County Planning Department - please include a copy of the Multi-Point Drilling Program or such other application information as may be required by the applicable State regulatory agency, an area map, and a completed Intent to Drill Data Sheet (copy attached).

WRS	
FJP	
HHM	
JAM	
ROC	
LAR	
CGM	
ED	

Please be advised that State Health Codes require that crew members be provided with sanitary facilities, ie., a Porta-John. Also, if living quarters are to be furnished, a Temporary Use Permit must be obtained from the County.

Please feel free to contact this office for any additional information you may need regarding drilling activity in Moffat County.

Yours truly,

*Richard L. Gibbons*

Richard L. Gibbons  
Director

RLG/gc

Attachment:

cc: Colorado Oil and Gas Conservation Commission