

ONE-POINT BACK-PRESSURE TEST REPORT

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 8-26-82		Lease No. or Serial No.	
Company: Ladd Petroleum Corporation				Connection		Allottee	
Field: Basin Dakota		Reservoir: Dakota		Location		Unit	
Completion Date: 8-11-82		Total Depth: 6434'		Plug Back TD: 6393'		Elevation: 5803' GL	
Csg. Size: 4 1/2" ID		Wt.: 10.5 lb/ft		d: 4.052"		Set At: 6434'	
Perforations: From 6184'		To 6316'		Well No.: 1E		Form or Lease Name: Butte	
Tbg. Size: 1 1/2" ID		Wt.: 2.9 lb/ft		d: 1.610"		Set At: 6245'	
Perforations: From		To		Seg. 8		Top - 30N 13W	
Type Completion (Describe): single gas				Packer Set At		Country or Parish: San Juan	
Producing Thru tubing		Reservoir Temp. F: 155		Mean Annual Temp. F: 6405		Base Press. - P _a : 12.2 psia	
L		H		G _s : .65		% CO ₂ : 0 % N ₂ : 0 % H ₂ S: 0	
Prover		Motor Run		Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow, Hr.
NO.	Prover Line Size	Choke Orifice Size	Press. psig	Diff. h _w	Temp. F	Press. psig	Temp. F	Press. psig	Temp. F	
SI						1320		1330		7 days
1.	9/16" pos. choke					110	65	560		3 hrs.

NO.	Coefficient (24-Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor, F _t	Gravity Factor, F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mcfd
1.	6.8979		122	.9952	.9608	1.011	814

NO.	P _i	Temp. R	T _g	Z
1.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl
 API Gravity of Liquid Hydrocarbon _____ deg.
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 Critical Pressure _____ psia
 Critical Temperature _____ R

$$P_c = 1342 \quad P_c^2 = 1,800,964$$

NO.	P _i	P _i ²	P _c ² - P _i ²	P _w	P _w ²	P _c ² - P _w ²	P _o	P _o ²	P _i ² - P _o ²
1.				572	327,184	1,473,780			

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right] = \left[\frac{1,800,964}{1,473,780} \right] = 1.22$$

$$\log \left[\frac{P_c^2}{P_c^2 - P_w^2} \right] =$$

$$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^{.75} = 1.16$$

$$n \log \left[\frac{P_c^2}{P_c^2 - P_w^2} \right] =$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$$

If subsurface pressure data are used, substitute P_i for P_c and P_o for P_w in above formulas.

$$AOF = \frac{946}{1.16} \text{ Mcfd}$$

$$n = .75$$

$$\text{angle of degrees} = 53^\circ$$

(Source of n)

Commission _____
 Company W. H. Zachary By W. H. Hall
 Others _____

Form BPT 6

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

NO. OF COPIES RECEIVED	
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U.S.O.B.	
LAND OFFICE	
TRANSPORTER	OIL
	NATURAL GAS
OPERATOR	
PRODUCTION OFFICE	

Operator Ladd Petroleum Corporation	
Address 830 Denver Club Bldg., Denver, Colorado 80202	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well ☒	Change in Transporter of:
Recompletion ☐	Oil ☐ Dry Gas ☒
Change in Ownership ☐	Casinghead Gas ☐ Condensate ☐

If change of ownership give name
and address of previous owner _____

DESCRIPTION OF WELL AND LEASE

Lease Name Butte	Well No. 1E	Pool Name, Including Formation Basin Dakota	Kind of Lease State, Federal or Fee	Lease No. NMO9867A
Location				
Unit Letter <u>M</u> : <u>600</u> Feet From The <u>south</u> Line and <u>612</u> Feet From The <u>west</u>				
Line of Section <u>18</u> Township <u>30N</u> Range <u>13W</u> , NMPM, <u>San Juan</u> County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☒	Address (Give address to which approved copy of this form is to be sent)					
Shell Oil Company	P.O. Box 1509, Midland, Texas 79702					
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒	Address (Give address to which approved copy of this form is to be sent)					
El Paso Natural Gas Co.	P.O. Box 1492, El Paso, Texas 79999					
If well produces oil or liquids, give location of tanks.	Unit M	Sec. 18	Twp. 30N	Rge. 13W	Is gas actually connected? no	When Nov. 1982

If this production is commingled with that from any other lease or pool, give commingling order number: _____

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					
Date Spudded 7/17/82	Date Compl. Ready to Prod. 8/31/82		Total Depth 6434' KB		P.B.T.D. 4390' KB			
Elevations (DE, RAB, ST, GR, etc.) 5815' RKB	Name of Producing Formation Dakota		Top Oil/Gas Pay 6184'		Tubing Depth 6255'			
Perforations					Depth Casing Shoe 263'			

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4"	8 5/8"	263'	145
7 7/8"	4 1/2"	6434'	1000

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D 814	Length of Test 3 hrs.	Bbls. Condensate/MMCF 6.14	Gravity of Condensate 58° API
Testing Method (prior back pr.)	Tubing Pressure (shut-in) 1320	Casing Pressure (shut-in) 1330	Choke Size 9/16" pos. choke

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Mike Zachry Mike Zachry
(Signature)
Production Engineer
(Title)
9-2-82
(Date)

OIL CONSERVATION DIVISION

APPROVED _____, 19____
BY _____
TITLE _____

This form is to be filed in compliance with RULE 1104.
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
All sections of this form must be filled out completely for allowable on new and recompleted wells.
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.
Separate Forms C-104 must be filed for each pool in multiple completed wells.

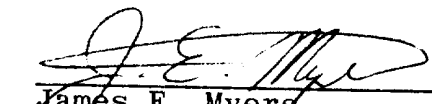
Well Name: Butte #1-E

Location: SW/SW Sec. 18-T30N-R13W
San Juan County, New Mexico

<u>Depth</u>	<u>Deviation</u>
265'	1/4°
782'	1/2°
1212'	3/4°
1735'	3/4°
2530'	1/2°
3050'	1°
3364'	3/4°
3884'	1°
4374'	1°
4865'	1-1/4°
5331'	1°
5882'	1-1/4°
6267'	1-3/4°
6434' (TD)	1-3/4°

All of the above deviation surveys are true and correct.

410 seal
or stamp


James E. Myers
Drilling Engineer
Ladd Petroleum Corporation

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

LOCATION and
Elevation PlatForm C-102
Revised 10-1-79STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

All distances must be from the outer boundaries of the Section.

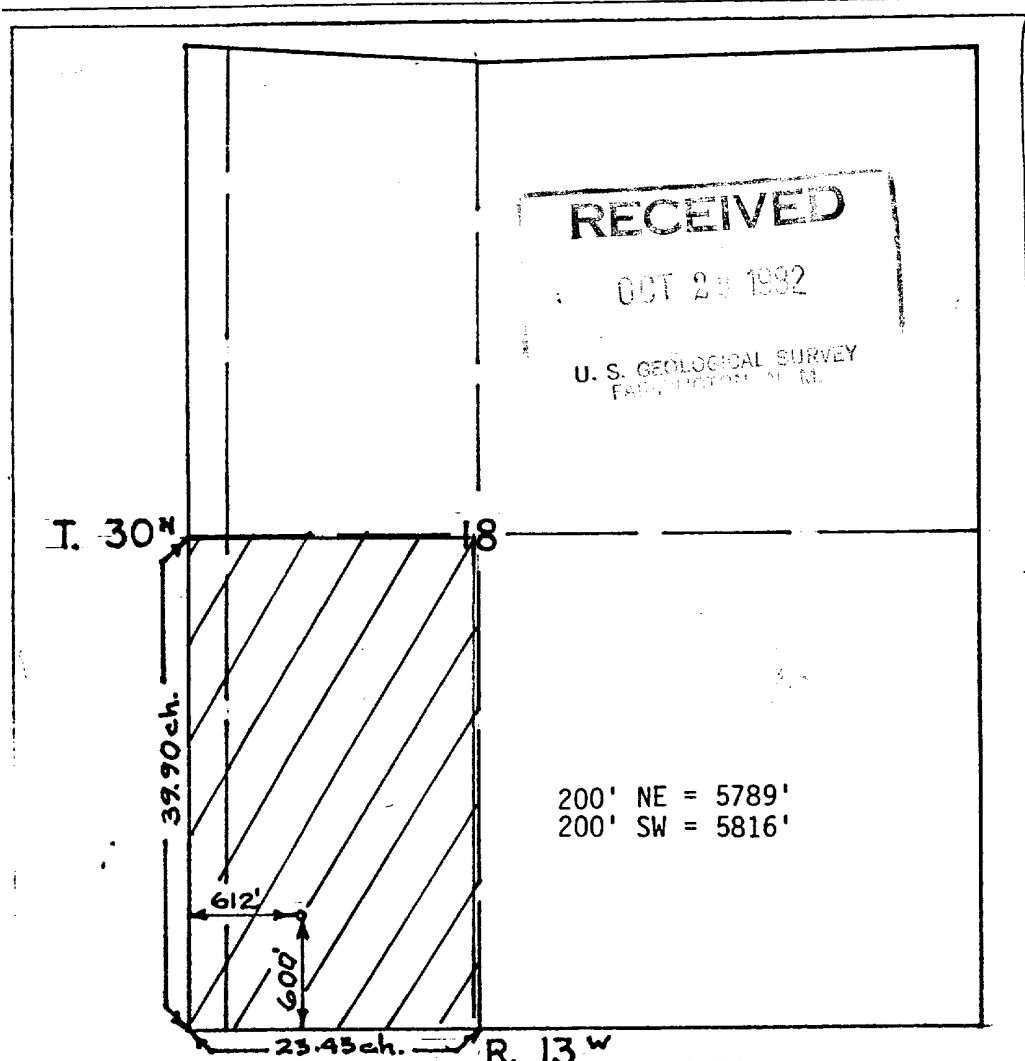
Operator Ladd Petroleum		Lease NM-09867-A		Well No. #1 E Butte	
Unit Letter M	Section 18	Township 30^N	Range 13^W	County San Juan	
Actual Postage Location of Well:					
600' feet from the South line and		612' feet from the West line			
Ground Level Elev. 5803'	Producing Formation Dakota	Pool Basin Dakota		Dedicated Acreage: 316.82 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Division.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

George Lapaseotes
Name **George Lapaseotes**
Position **President, Powers Elevation**
Agent Consultant for

Company
Ladd Petroleum Corporation
Date
February 9, 1982

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
February 9, 1982
Professional Engineer
6844
SERVO G. HUDDLESTONE
REGISTERED LAND SURVEYOR
6844

Sec. 30: Lot 7

Sec. 31: E/2

Sec. 31: Lots 1, 2, 3, 4,
E/2 W/2

