

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa FeLease No. 079238Unit Belack

## SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

April 18, 1958

Well No. 13-C(W) is located 960 ft. from N line and 800 ft. from E line of sec. 29SE Sec. 29  
(1/4 Sec. and Sec. No.)27N 01  
(Twp.) (Range)N.M.P.M.  
(Meridian)Blanco Mt. & So. Blanco P.C.  
(Field)San Juan  
(County or Subdivision)New Mexico  
(State or Territory)The elevation of the derrick floor above sea level is 6395 ft.

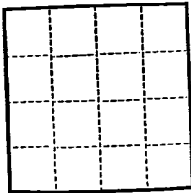
## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

On 4-12-58. Total Depth 4429'  
Run 109 joints 7 3/8", 2-55, 26.44, casing (4417') set at 4428' with 250 sacks  
regular cement, w/150 sk. (200 ft.) Silicate, followed with 50 sacks reg. cement  
w/25 CaCl.

Raid 1000' for 30 minutes.

Top of cement by temperature survey at 2310'.  
Perf. 2310' against w/150 sk. Wash-top of cement @ 1950'



(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-B358.4  
Approval expires 12-31-60.

Land Office **Santa Fe**  
Lease No. **079232**  
Unit **Bolack**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<b>Water Frac.</b>	<b>X</b>

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 5, 1958

Well No. **13-C** is located **960** ft. from **S** line and **800** ft. from **W** line of sec. **29**

**SW** **Sec. 29** **27N** **8W** **N.M.P.M.**  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Blanco Ext. & Co. Blanco P.C.** **San Juan** **New Mexico**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **6395** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

4-25-58. Total Depth 4825'. Plug back T.D. 4780'. Water fractured Point Lookout perforated intervals w/2 dyna jets/ft. 4630-40; 4650-60; 4670-80; 4690-4710; 4722-40; 4750-62 with 41,244 gallons water and 50,000# sand. B.D.P. 1775#, max. pr. 1775#, avg. tr. pr. 1500#. I.R. 64.5 B.P.M. Flush 9,000 gallons. Dropped 7 sets of 20 balls each for 8 stages.

4-25-58. Total Depth 4825'. Temporary Bridge Plug at 4455'. Water fractured Pictured Cliffs perforated intervals w/2 dyna jets/ft. 2378-88; 2394-2420 with 42,250 gallons water and 40,000# sand. B.D.P. 1400#, max. pr. 1400#, avg. tr. pr. 1200#. I.R. 73.8 B.P.M. Flush 5000 gallons. Dropped 3 sets of 18 balls each for 4 stages.

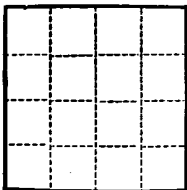
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **El Paso Natural Gas**

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa Fe  
Lease No. 079232  
Unit Dolack



SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED  
MAY 7 1958  
U.S. GEOLOGICAL SURVEY  
NEW MEX

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
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NOTICE OF INTENTION TO ABANDON WELL	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 5, 1958

Well No. 13-C is located 960 ft. from S line and 800 ft. from W line of sec. 29

SW Sec. 29  
(1/4 Sec. and Sec. No.)

27N  
(Twp.)

6W  
(Range)

R.M.P.M.  
(Meridian)

Blanco Nat. Gas. Blanco P.C.  
(Field)

San Juan  
(County or Subdivision)

New Mexico  
(State or Territory)

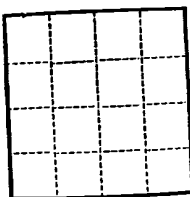
The elevation of the derrick floor above sea level is 6300 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

4-23-58. Total Depth 4830'.

Run 14 joints 5 1/8", 15.50#, J-55 casing (431') set from 437 1/2' to 1825' with  
75 sacks regular cement, 75 sacks Fomina, 6% gel, 1/8" Floccula/sk, followed  
by 50 sacks Mast cement.



(SUBMIT IN TRIPLICATE)  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R268.4  
Approval expires 12-31-60.

Land Office **Santa Fe**  
Lease No. **079232**  
Unit **Bolack**

RECEIVED

MAY 26 1958

SUNDRY NOTICES AND REPORTS ON WELLS

U.S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
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NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 22, 1958

Well No. **13-C(FM)** is located **960** ft. from **S** line and **800** ft. from **W** line of sec. **29**  
**SW** **Sec. 29** **27N** **7W** **N.M.P.M.**  
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**Alamosa Ert. & South** **San Juan** **New Mexico**  
 (Field) (County or Subdivision) (State or Territory)  
**Alamosa P.C.**

The elevation of the derrick floor above sea level is **6395** ft.

DETAILS OF WORK

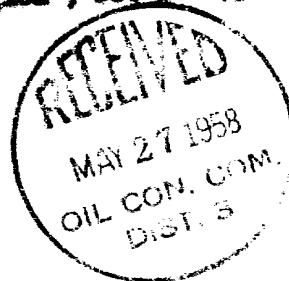
(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spud date 3-11-58.

On 3-13-58. Total Depth 173'.

Run & joints 10 3/4", 32.75#, spiral weld casing (162') set at 173' with 150 sacks regular cement, circulated to surface.

Held 500# for 30 minutes.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 8, 1958

El Paso Natural Gas Company		Bolack No. 13-C (M)	
960S, 800W; 29-27-8		San Juan New Mexico	
Mesa Verde		Blanco	
Flowmeter	Set At: Feet	Flowmeter	Set At: Feet
7-5/8	4417	2"	4751
4630	4740	4830 g/o 4780	Shut-in 6/24/58
Sand Water Frac.		Flow Through Tubing	
		X	

Choke Pressure (C)		5-1/2 liner 4374 - 4825	
.75	12.365		
Flow Pressure (PC) 673	PSIG 12 PSIA 685	Shut-in Pressure (MV) 1113	PSIG 12 PSIA 1125
Flow Pressure (F) 170	PSIG 12 PSIA 182	Working Pressure (Pw)	PSIG 12 PSIA 341 (Calc.)
Temperature (T) 76	.75	Flow (From Tables) 1.020	Gravity .722

Final SIPC (PC) 676

Packer at 4441  
1-1/4" at 2413

CHOKE VOLUME - Q C x P<sub>c</sub> x F<sub>w</sub> x F<sub>g</sub> x F<sub>g</sub>

Q 12.365 (182)(.9850)(.9129)(1.020)

2064

MCF D

$$Q = \left( \frac{P_c^2 - P_w^2}{P_c - P_w} \right)^{1/n}$$

$$Q = \left( \frac{1265625 - 1149344}{1265625 - 1149344} \right)^{1/n}$$

$$(1.1011)^{.75} (2064) = (1.0749)(2064)$$

2219

MCF D

R. R. Davis



Lewis D. Galloway  
L. D. Galloway