

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Santa Fe**
Lease No. **081226-B**
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.....
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)

October 23rd, 1957

Well No. 3 is located 1820 ft. from N line and 2130 ft. from E line of sec. 4
NW/4 SE/4 Sec. 4 30N 16W N.M.P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Undesignated San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5553 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)

10-2-57 Pulled tubing and ran packer. Kicked well off flowing
 through tubing. Flowed an average of 20 BOFH for 12
 10-6-57 hours. Ran El Paso Natural Gas Company bomb in
 tubing and reduced rate of flow to 9.07 BOFH. Shut
 well in for 24 hours. Pulled bomb. Calibration
 readings attached. Kicked well off through casing.
 Flowed 3,760 barrels of oil in 36 hour period.
 Well stabilized and showed no decline in last 12
 hours. Killed well and ran tubing.

Well produced 384 barrels of oil first 24 hours
 flowing through tubing, 1 1/2" bottom hole choke.

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

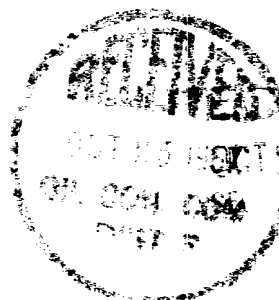
Company TOM BOLACK
 Address 1010 North Dustin
Farmington, New Mexico

By [Signature]
 Title _____



**BOTTOM HOLE PRESSURE SURVEY AND PRODUCTION
TEST ON BOLACK #3**

<u>Time</u>	<u>Hours</u>	<u>Extension</u>	<u>Pressure psig</u>	<u>Production - Bbls/Hr.</u>
12 Noon	0	.315	178	
1:00 PM	1	.320	182	15.03
2:00	2	.400	230	13.36
3:00	3	.400	230	Pump oil from tanks
4:00	4	.410	236	11.69
5:00	5	.410	236	16.70
6:00	6	.410	236	
7:00	7	.412	237	
8:00	8	.415	238	
9:00	9	.420	240	10.02
10:00	10	.420	240	9.19
11:00	11	.420	240	7.52
12 Midnight	12	.425	245	8.35
1:00 AM	13	.425	245	10.02
2:00	14	.425	245	10.02
3:00	15	.425	245	10.02
4:00	16	.428	246	8.35
5:00	17	.429	247	8.35
6:00	18	.430	248	8.35
7:00	19	.430	248	10.02
8:00	20	.430	248	8.35
9:00	21	.430	248	Shut in
10:00	22	.430	248	
11:00	23	.430	248	
12 Noon	24	.430	248	
1:00 PM	25	.430	248	
2:00 PM	26	.430	248	
3:00	27	.430	248	
4:00	28	.430	248	
5:00	29	.430	248	
6:00	30	.432	249	
7:00	31	.435	250	
8:00	32	.435	250	
9:00	33	.435	250	
10:00	34	.435	250	
11:00	35	.435	250	
12 Midnight	36	.435	250	
1:00 AM	37	.438	251	
2:00	38	.438	251	
3:00	39	.440	252	
4:00	40	.445	256	
5:00	41	.445	256	
6:00	42	.445	256	
7:00	43	.445	256	
8:00	44	.445	256	



The average production from the 8th hour through the 20th hour was 9.07 bbls/hour at a bottom hole pressure of 245 psig.

The productivity index is:

$$P.I. = \frac{217.20 \text{ B/D}}{256 - 245} = 16.71$$

The absolute open flow if the sand face pressure could be reduced to atmospheric pressure would be:

$$q = 16.71 (258 - 12) = 4,110.66 \text{ bbls. per day.}$$

3/ Joe Dudenhoeffer
El Paso Natural Gas Company
Engineering Department

WATER HOLE PRESSURE SURVEY AND PRODUCTION
TEST ON NO. 2

Time	Pressure (psi)	Production (bbl/day)	Pressure (psi)
12:00 PM	415	0	415
1:00 PM	420	1	420
2:00	400	2	400
3:00	400	3	400
4:00	410	4	410
5:00	410	5	410
6:00	410	6	410
7:00	415	7	415
8:00	415	8	415
9:00	430	9	430
10:00	430	10	430
11:00	430	11	430
12:00	430	12	430
12:00 AM	435	13	435
1:00 AM	435	14	435
2:00	435	15	435
3:00	435	16	435
4:00	435	17	435
5:00	435	18	435
6:00	435	19	435
7:00	435	20	435
8:00	435	21	435
9:00	435	22	435
10:00	435	23	435
11:00	435	24	435
12:00 PM	435	25	435
1:00 PM	435	26	435
2:00 PM	435	27	435
3:00	435	28	435
4:00	435	29	435
5:00	435	30	435
6:00	435	31	435
7:00	435	32	435
8:00	435	33	435
9:00	435	34	435
10:00	435	35	435
11:00	435	36	435
12:00	435	37	435
1:00 AM	435	38	435
2:00	435	39	435
3:00	435	40	435
4:00	435	41	435
5:00	435	42	435
6:00	435	43	435
7:00	435	44	435
8:00	435	45	435

Pump off from tanks
11.00
10.70

10.00
9.70
9.40
9.10
8.80
8.50
8.20
7.90
7.60
7.30
7.00
6.70
6.40
6.10
5.80
5.50
5.20
4.90
4.60
4.30
4.00
3.70
3.40
3.10
2.80
2.50
2.20
1.90
1.60
1.30
1.00
0.70
0.40
0.10
Shut in



The average production from the test hole through the 20th hour was 0.07 bbl/day at a bottom hole pressure of 435 psi.

The productivity index is:

$$P.I. = \frac{217.50 \text{ bbl/d}}{435 - 10.71} = 0.51$$

The absolute open flow if the sand face pressure could be reduced to atmospheric pressure would be:

$$Q = 16.71 (435 - 10.71) = 6,110.66 \text{ bbl/d}$$

Joe Badger
El Paso Natural Gas Company
Engineering Department