Form 9-331 a (Feb. 1951)

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## (SUBMIT IN TRIPLICATE)

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

| Land  | Office | Santo | 70       |      |      |
|-------|--------|-------|----------|------|------|
| Lease | No.    | 20517 | <u> </u> |      |      |
| 11_14 | 341    | Livan | Oas      | Unit | m Sa |

## SUNDRY NOTICES AND REPORTS ON WELLS

| NOTICE OF INTENTION TO TEST WAT<br>NOTICE OF INTENTION TO RE-DRILL<br>NOTICE OF INTENTION TO SHOOT OF  | OR REPAIR WELL   | SUBSEQUENT REPORT OF ALTERING CASING SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR  |  |
|--|--|--|--|
| NOTICE OF INTENTION TO PULL OR NOTICE OF INTENTION TO ABANDON  |  | SUPPLEMENTARY WELL HISTORY   |  |
| (INDICA  | ATE ABOVE BY CHECK MARK  | NATURE OF REPORT, NOTICE, OR OTHER DATA)   |  |
| mllivan Gas Unit "B"   | 1  | Farmington, New Mexico December 1  | ., 19.   |
| ell No. <b>1</b> is locat  | ted 🤲 ft. from   | $\{N\}$ line and $\{T, F\}$ ft. from $\{E\}$ line of sec.  | 21   |
| E/4 of Section 21  | T-32-H   | B-10-W N.M.P.N.  | P 10   |
| (½ Sec. and Sec. No.)  | (Twp.) (1  | Range) (Meridian)  | 1  |
| (Field)  | (County or   | Subdivision) (State or Territory)  | 5- <del></del>   |
|  | o objective sands; show sizes<br>ing points, and all ot  | S OF WORK  s, weights, and lengths of proposed casings; indicate mudding joiner important proposed work)  R November 11. 1958 workover ris was   |  |
| willivan Gas Unit "B"<br>n the above well and<br>e a total depth of 5<br>ype liner Hanger wit<br>ack. Checked top co<br>ater and pumped in a<br>bove to 1200 pounds<br>er winute. Pumped i<br>RC tool up hele and  | o objective sands; show sizes ing points, and all oil well No. 1. Oil tubing was pullifold. Five inel in 110 sacks 65 ment in liner at 1200 pounds. breaking back to below at 1200 found packer no   | t, weights, and lengths of proposed casings; indicate mudding joiner important proposed work)  R November 11, 1758 workover rig was led. Well was then eleaned out with a liner was set at 4774-5600 with Bugel easent with 1-1/2 pounds Tuf Flut 5538' with 4-1/4" bit. Leaded holden RRC tool set at 4746'. Present 600 pounds and pumped in at 5-1/2 pounds with four barrels per minute holding. Ren RTTS tool set at 473  | moved<br>gas<br>irms ?<br>g per<br>a with<br>ed up                                       |
| willivan Gas Unit "B" in the above well and is a total depth of 5 'ype Liner Hanger wit sade. Checked top co meter and pumped in a phove to 1200 pounds 'er winute. Pumped i RC tool up hele and 'ested above with 250   | o objective sands; show sizes ing points, and all oil well Ho. 1. Oil tubing was pullifold. Five inel in 110 sacks 65 ment in liner at 1200 pounds. breaking back to below at 1200 found packer no 100 pounds which 1  | t, weights, and lengths of proposed casings; indicate mudding join her important proposed work)  R November 11, 1958 workover rig was led. Well was then eleaned out with a liner was set at 4794-5600 with Bugel easent with 1-1/2 pounds Tuf Plut 5538 with 4-1/4 bit. Leaded holden Ren RRC tool set at 4746. Process 600 pounds and pumped in at 5-1/2 pounds with four barrels per minute tholding. Ren RTTS tool set at 473 hold ek. Test below and pumped in a 100 sanks cament with 1-1/2 pounds   | moved<br>gas<br>res ?<br>g per<br>s with<br>wd up<br>barre.                              |
| willivan Gas Unit "B" in the above well and so a total depth of 5 ype Liner Hanger with each. Checked top conter and pumped in a bove to 1200 pounds for minute. Pumped if RC tool up hele and bested above with 250 bounds. Squeezed top lug per sack.  | o objective sands; show sizes ing points, and all oil well No. 1. Oil tubing was pull 1610'. Five inel in 110 sacks 65 ment in liner at 1200 pounds. breaking back to below at 1200 found packer no to pounds which is of liner with 1   | t, weights, and lengths of proposed casings; indicate mudding joiner important proposed work)  In November 11, 1958 workover rig was led. Well was then cleaned out with a liner was set at 4794-5600 with Bugel easent with 1-1/2 pounds Tuf Flut 5538' with 4-1/4" bit. Leaded holden Eas ERC tool set at 4746'. Present 600 pounds and pumped in at 5-1/2 pounds with four barrels per minute holding. Eas ETTS tool set at 473 held ek. Test below and pumped in a 100 aachs coment with 1-1/2 pounds (See reverse side)   | move<br>gas<br>ras ?<br>g per<br>s with<br>vd up<br>barro!<br>. Se<br>6.<br>t 120<br>Tuf |
| willivan Gas Unit "B" in the above well and is a total depth of 5 'ype Liner Hanger wit each. Checked top co mater and pumped in a above to 1200 pounds ' er winute. Fumped i RC tool up hele and 'ested above with 250 counds. Squeezed top 'lug per sack.  I understand that this plan of work                                 | o objective sands; show sizes ing points, and all oil well Ho. 1. Oil taking was pull (610). Five inel (610). Five inel (610) sacks 65 ment in liner at 1200 pounds. breaking back to below at 1200 found packer not to pounds which is of liner with it in the contractive approval in we must receive approval in we will be contracted to the contractive approval in we must receive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in the co | t, weights, and lengths of proposed casings; indicate mudding joiner important proposed work)  R November 11, 1958 workover rig was led. Well was then cleaned out with a liner was set at 4794-5600 with Bugel ement with 1-1/2 pounds Tuf Flut 5538 with 4-1/4 bit. Leaded hol Ben ERC tool set at 4746. Present 600 pounds and pumped in at 5-1/2 pounds with four barrels per minute holding. Ren RTTS tool set at 473 hold ek. Test below and pumped in a 100 sagks coment with 1-1/2 pounds  (See reverse side)  riting by the Geological Survey before operations may be comm   | move<br>gas<br>ras ?<br>g per<br>s with<br>vd up<br>barro!<br>. Se<br>6.<br>t 120<br>Tuf |
| willivan Gas Unit "B" in the above well and so a total depth of 5 ype Liner Hanger with each. Checked top conter and pumped in a bove to 1200 pounds for minute. Pumped if RC tool up hele and bested above with 250 bounds. Squeezed top lug per sack.  | o objective sands; show sizes ing points, and all oil well Ho. 1. Oil taking was pull (610). Five inel (610). Five inel (610) sacks 65 ment in liner at 1200 pounds. breaking back to below at 1200 found packer not to pounds which is of liner with it in the contractive approval in we must receive approval in we will be contracted to the contractive approval in we must receive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in we will be contracted to the contractive approval in the co | t, weights, and lengths of proposed casings; indicate mudding join her important proposed work)  R November 11, 1958 workover rig was led. Well was then cleaned out with liner was set at 4794-5600 with Bugel ement with 1-1/2 pounds Tuf Plut 5538 with 4-1/4° bit. Leaded holds and RRC tool set at 4746'. Presents 600 pounds and pumped in at 5-1/2 pounds with four barrels per minute holding. Ren RTTS tool set at 473 held ek. Test below and pumped in a 100 sacks coment with 1-1/2 pounds (See reverse side) riting by the Geological Eurvey before operations may be commerciated.  ORIGINAL SIGNED Extrapolation of the commerciation of the content with 1-1/2 pounds. | move<br>gas<br>rus ?<br>g per<br>s witi<br>ed up<br>barre.<br>. Se<br>6.<br>t 120<br>Tuf |
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| willivan Gas Unit "B" in the above well and o a total depth of 5 ype liner Hanger wit ack. Checked top co wter and pumped in a bove to 1260 pounds er minute. Pumped i RC tool up hole and ested above with 250 ounds. Squeezed top lug per sack.  I understand that this plan of work mpany Pan American                        | objective sands; show sizes ing points, and all of livell Ho. 1. Of tabing was pullifold. Five inel in 110 sacks 65 ment in liner at 1200 pounds. breaking back to below at 1200 found packer not liner with the control of liner with the line of liner with the line of liner with the line of lin | t, weights, and lengths of proposed casings; indicate mudding join her important proposed work)  R November 11, 1958 workover rig was led. Well was then cleaned out with liner was set at 4794-5600 with Bugel ement with 1-1/2 pounds Tuf Plut 5538 with 4-1/4° bit. Leaded holds and RRC tool set at 4746'. Presents 600 pounds and pumped in at 5-1/2 pounds with four barrels per minute holding. Ren RTTS tool set at 473 held ek. Test below and pumped in a 100 sacks coment with 1-1/2 pounds (See reverse side) riting by the Geological Eurvey before operations may be commerciated.  ORIGINAL SIGNED Extrapolation of the commerciation of the content with 1-1/2 pounds. | move<br>gas<br>res ?<br>g per<br>s with<br>wd up<br>berre.<br>. Se<br>6.<br>120<br>Tuf   |

Did not reverse out. Rem 6-1/4" lit and drilled essent 6760 - 94. Ren 6-1/4" bit to 596-56.

596-5408, 5428-50, 5460-84. Send-water fracked Foint Leckout some with 50,000 gallens water and 70,000 pends eard. Formation broke at 475 pends treating pressure 1495 pends. Average injection rate 74.7 berrels per minute. Set 9030' and tested with 1600 pends. Ferferaged drillable bridge plug at 5030' and tested with 1600 pends. Ferferaged collines some 4915-60, 4970-9000 with two shots per foot. Send-water fracked vith 40,000 gellens water and 49,000 pends send. Ferenties broke at 1160 pends. Treating presente 1150 rounds, average injection rate 66 berrels per minute. Treating presente 1150 rounds, average injection rate 66 berrels per minute. Italianced water with gas and drilled bridge plug. Cleaned out to 5538'. Two Italiance with tubing landed at 5531'. Fraliminary Fitet Tube Measurement 6540 MCFPD. Inch was released in Movember 23, 1958.