

THIS FORM TO BE SUBMITTED ALONG WITH FORM 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A DRY HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF MUD WITH REASONS. LOST CIRCULATION, BLOWOUTS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PRODUCING ZONES Cased off, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SIDETRACKED FISH, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL AT TIME OF COMPLETION

LEASE N.M. Federal "NN" WELL NO. 4
SEC. 7 T. 30N R. 12W COUNTY San Juan
STATE N.M. FIELD Bisti Lower Gallup
A.P.E. NO. 158

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

Location staked by James P. Leese, September 28, 1960, 1070' FNL & 1190' FEL.

9-24 to 10-4-60 Younger Construction Company building road & location.

10-6-60 Honda Drilling Co. MIRT
10-7-60 Honda Drilling Co. MIRT
10-8-60 Spud 12 1/2" hole @ 8:00 P.M.
10-9,10-60 WT 1000', Made 365', Bit No. 1, Dev. 1/2 degree @ 365', Cement 8-5/8" 24# J-55 csg. @ 362' w/325 sx reg. plus 2% CaCl₂, Circ. 30 sx @ surf., PD 10:15 A.M.
10-11-60 Drilling 1772', Prog. 1407', Dev. 1/2 degree @ 1200'.
10-12-60 Drilling 2570', Prog. 798', Dev 1/2 degree @ 2561'.
10-13-60 Drilling 3300', Prog. 730', Sd & Sh, Dev 1/2 degree @ 3090'.
10-14-60 Drilling 3730', Prog. 430', Sd & Sh, Dev 1/2 degree @ 3675'.
10-15,16,17-60 Drilling 5000', Prog. 300', Lost approx. 250 bbl mud @ 4748', Regained 100 per cent circ. Dev 1-3/4 degrees @ 4748'.
10-18-60 Drilling 5310', Prog. 310', Sd & Sh, Wt. 9.6#, Dev 1 1/2 degrees @ 5270'.
10-19-60 Drilling 5588', Twisted off @ 5168', Going in hole w/overshot, Made 278', Wt. 9.6#.
10-20-60 Prog. 312', Wt. 10.0#, Vis. 60 sec., WL 5.
10-21-60 Drilling 5190', Prog. 210', Dev 1/2 degree @ 5175, Lost 200 bbl mud @ 5150', Now have full returns, Wt. 9.8, Vis 60, WL 5.
10-22,23,24-60 Drilling @ 6808', Prog. 83', Lost cone from Bit No. 17, Ran JB w/Bit #18 and recovered cone. Top Dakota 639', Wt. 9.7, Vis 70, WL 4.
10-25-60 Drilling @ 6865, Prog. 57', Wt 9.4, Vis 123, WL 5, Est. RTD 6890', Will run Lane Wells ES induction & GR-Sonic logs.
10-26-60 Drilling @ 6901, Made 36', Ran Lane Wells ES-Induction, GR-Acoustic log @ RTD 6887', LWTD 6887, Top Dakota 6702 (-685), Dakota zones 1, 2 & 3 appear productive & comparable to N. M. Federal "NN" No. 3,
10-27-60 Circ. to cond. hole @ RTD 6970', Prog. 33', Attempted to run ES-Induction log on new hole, hit bridge @ 6070', Wt. 9.2#, Vis 245, WL 2.2, Will run log & set csg. @ RTD.
10-28-60 Running 1 1/2" csg., RTD 6970, Made 0 ft, Ran LW ES-Induction over LWR 83', LWTD 6969, Top Morrison 6946'.
10-29,30,31-60 SI - Prep to MI swab unit, Set 1 1/2" 11.6 J-55 csg. @ 6961', w/325 sx 50-50 Per mix w/12.5 PD gilsonite sk. PD 9:50 A.M. 10-28-60, Top cement by temp. survey 5400', Run LW PFC log, 3' high to ES-Induction log, Perf/ 5706-19, 6725-36, 6756-60, 6773-6785, 6850-60, LW ES-Induction was, w/4 jet holes per ft., Run 2-3/8" tbg., Treat perf w/500 gal Dolell BDA, Displace acid @ 3300', PD, Pull tbg, Free perf w/80,000 gal. Dolell slick wtr. plus emulsion preventing chem-W-23, plus 80,000 20-40 mesh sd. in four stages separated by total of 150 rubber balls, Avg. Inj. rate 35 BPM @ 2200' to 3300', 10 min. SIP 900', 3 hrs, SIP 300', Bleed off press. Run 2-3/8" tbg to 6696', Release Honda Drilling Co. rig.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

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Don't

11-1-60 M. J. P. "Bum" Gibbins swab unit, Pull swab twice, well commenced flowing, Flow to pit on 32/64" CK, Est. 750 MCFPD plus 50 bbl frac. wtr/hr. FTP 300#, FCP 700#.

11-2-60 Flow to pit 24 hrs on 40/64" CK, Est. 1000 MCFPD plus est. 20 BW & 1 bbl. cond. per hr. FTP 180#, FCP 500#.

11-3-60 Flow to pit 24 hrs on 48/64" CK, Est. 1250 MCFPD plus est. 1250 MCFPD plus est. 10 bbls frac wtr. & 1 bbl cond. per hr., FTP 150#, FCP 425#.

11-4-60 Flow to pit 24 hrs. on 40/64" CK, Est. 1500 MCFPD plus est. 5 BW & 1 bbl cond. per hr, FTP 160#, FCP 380#.

11-5,6,7-60 SI 24 hrs, SI 1875#, SICP 1875#, Flow to pit 1 hr, SI 23 hrs, SITP 2000#, SICP 2025#.

11-8-60 SI 24 hrs., SITP 2050#, SICP 2100#, Flow to pit 30 min, SI because of wind change.

11-9-60 SI 48 hrs., SITP 2100#, SICP 2150#.

11-10-60 SI 72 hrs., SITP 2150#, SICP 2150#.

11-11-60 SI

11-12,13,14-60 SI 48 hrs., SITP 2150#, SICP 2150#.

11-15-60 SI 72 hrs.

11-16-60 SITP 2150#, SICP 2150#, SI for 7 days, SI press test.

11-17-60 SI for 7 days, SI press test.

11-18-60 SI for 7 days, SI press test.

11-19,20,21-60 SI for 7 days, SI press test.

11-22-60 SI for 7 days SI press buildup.

11-23-60 SI for 7 days, SI press buildup.

11-24,25,26,27, 28-60 Ran 3 hr. not flowing 3323 MCF rate @ end of 3 hrs, AOF 3800 MCF. Complete

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ENGINEER

APPROVED

E. J. Lemons