

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 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 "P" WELL NO. 1  
SEC. 30 T. 30N R. 15W COUNTY San Juan  
STATE New Mexico FIELD Undesignated  
A.F.E. NO. 161

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

Location staked by James P. Leese, October 3, 1960, 252' PNL & 756' VEL

10-1 to 6 Younger Construction Company building road & location.  
10-7-60 Aspen Drilling Company MINT  
10-8-60 Aspen Drilling Company MINT  
10-9,10-60 WOC @ 145', Bit #1, Dev. 3/4 deg. @ 145'. Spud 12 1/4" hole 5 A.M., Cement 8-5/8" 2 1/2" J-55 csg. @ 140' w/100 sx. reg. plus 2 1/2" CaCl2, Circ 20 sx @ surf. PD 6:45 P.M.  
10-11-60 Drlg. 545', Prog. 400', Bit #1, 7-7/8" in @ 145', Dev. 3/4 deg. @ 263', 1 deg. @ 378'.  
10-12-60 Drlg. 1005', Prog. 460', Bit #3 in @ 990', Dev 1 1/2 deg @ 685', 1 1/4 deg. @ 950'.  
10-13-60 Drlg. 1350', Prog. 345', Sd & Sh, Bit #4 in @ 1192, Dev. 1 1/2 deg. @ 1192', 1 1/4 deg. @ 1340'.  
10-14-60 Drlg. 1935', Prog. 585', Sd & Sh, Bit #5 in @ 1412', Dev. 1-3/4 deg. @ 1724'.  
10-15,16,17-60 Drlg. 3290', Prog. 310', Dev. 2 1/4 deg. @ 2921', 1-3/4 deg @ 3229'.  
10-18-60 On bottom circ. @ 3449', Lost circ. @ 3449' for 7-3/4 hrs. Lost est. 350 bbl mud, Regained 100 per cent circ, wt. 9.0 lb.  
10-19-60 Drlg. 3675' Sh, Prog. 226', Lost additional 100 bbl. mud @ 3449', Regained circ, Lost 60 bbl. mud @ 3586', Now have full returns, wt. 9.2 lb.  
10-20-60 Circ. to Cond hole @ 3950', Losing approx. 10 Per cent returns, Prep to run Sch. ES-Ind & Sonic logs as soon as hole is in condition, Will set 5 1/2" csg. @ T.D.  
10-21-60 RTD 3960', Schl TD 3960', Ran ES-Inductions & Sonic logs. Top Mancos 2695, plus 2555. Top Upper Gallup 3838, plus 1412', Projected top of Verde Gallup 4003'. Projected top of HS Canyon Sd 4088', Running 5 1/2" csg. to T.D.  
10-22,23,24-60 RTD 3960', Cemented 5 1/2" 1 1/2" J-55 class ST&C csg. @ 3960' w/100 sx 50-50 pos, Released Aspen Drlg. Co., 8 A.M. 10-22-60, WOC & MORT - Top cement by Temp. Survey 3700'.  
10-25-60 MICT, Signal Oil Field Service, Cardwell spudder.  
10-26-60 Drlg. shoe @ 3960', bailed hole clean & drilled out float and cement to 3955' KB, Bailed hole down & test shoe for 1 hr., Dry test.  
10-27-60 Drlg @ 4020', Prog 60', Hd HL Sd hole dry, No show of oil.  
10-28-60 Drlg. @ 4072', Prog. 52', Test Verde Gallup, frac Sh @ 4057', 1st hr. bail 8 gal. oil, 2nd hr. bail 12 gal. oil, 3rd hr. bail 12 gal. oil, Est. top HS Canyon Sd 4088', KB Meas.  
10-29-30-31-60 Prep. to swab test thru tbg, Drld to 4082', 150' oil in hole in one hr. Fluid level 450' in 3 hrs., Bail 3 BOPH, could not lower fluid level, 38.3 Deg. API corrected to 60 Deg. F, Deepen to bubble tool TD of 4115', KB Meas, Drlg, line parted & lost tools in hole, Rec. tools after 6 hrs. fishing, Ran Sch GR-Sonic log over open hole, Top HS Canyon Sd 4090' Sch Meas, Fluid level 1250' oil in 48 hrs., Ran 4" OD Hydril PJ liner over open hole, Top liner 3929' KB, uncemented, Ran 2-3/8" 4.7 J-55 tbg. to top of liner, Will swab test thru tbg.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 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

New Mexico Federal "pp" 1  
LEASE 30 T. 30N R. 15W WELL NO. San Juan  
SEC. COUNTY  
STATE New Mexico FIELD Undesignated  
A.F.E. NO.

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 2 -

- 11-1-60 Swab well down, Rec. 20 BLO, Swab test 1st hr. 4.5 BLO, 2nd hr. 3.2 BLO, 3rd hr. 2.0 BLO, 4th hr. 1.0 BLO, next 8 hrs, swab approx. 1 BOPH Will continue swab test & prep to frac open hole thru liner w/oil & sand.
- 11-2-60 Swab test 5 hrs, Rec no new oil, Prep to frac.
- 11-3-60 CO sand w/sd pump @ 3840', Start sand-oil frac. down csg., Displace 12,000 gal. oil plus 19,000 lb. sd @ 1500 lb max. press, Dowell union on injection line failed necessitating shutting down, could not pump into csg. after starting again, went in hole w/2-7/8" CO Sd pump Found top of sd @ 3800', Sd pumped for 12 hrs., Sd entering csg. @ approx. same rate.
- 11-4-60 CO sd. in 4" liner to 3980'.
- 11-5-60 Flowing to tank @ 30 BPH, Lack 920 BLO, layed down 2-7/8" MIDCO sd pump Ran 2-3/8" Cavins hydrostatic bailer, Could not CO below 3980', Ran 2 1/2" of 2-1/16" hydrill PJ tbg. on bottom of 2-3/8" tbg, Found top of sd @ 3980, Circ & run tbg. to bottom of liner @ 4103', Circ. 2 hrs., pull tbg.
- 11-6,7-60 Pump down 5 1/2" csg. @ 40 BPH @ 1200 lb, start sd @ 1 lb/gal., displace approx. 1000 gal. & 1000 lb. from csg. & screened out, run tbg. w/2 1/2 ft. 2-1/16" PJ on bottom, found sd bridge @ 3200', top of solid sd @ 3800', Circ & CO to top of slots in liner @ 4010', Well commenced flowing, Flow to tank 3 hrs., Rec 120 BLO, Used total of 1040 BLO.
- 11-8-60 Prep to pull tbg. & run sd pump, flowed to tank 2 hrs. & died, pulled tbg. above liner, swab 16 hrs. last 8 hrs swab 10.5 BLO per hr, Rec total 215 BLO, Lack 705 BLO.
- 11-9-60 Running Sd pump @ 4095 KB, Pulled tbg, Ran MIDCO Sd pump, found top of sd @ 4030' KB, CO to 4104 KB, 2500' oil in hole, csg. swab & Sd pump alternately, lowered fluid to 1500' oil in hole, pulled 7' sd into liner, Rec 46 BLO, lack 659.
- 11-10-60 Prepare to set pumping unit. Pulled csg. swab 1 time, Rec. 10 BLO, Lack 649. Sand pump to T.D., Run 2-3/8" tbg. set @ 3903', Ran 1 1/2" pump on 3/4" sucker rods, Complete @ 11 PM. 11-9-60.
- 11-11-60 Moved out cable tools, set Nat'l 57-D pumping unit, POP @ 4 P.M., pumped 38 BLO in 16 hrs., lack 611 BLO.
- 11-12,13-60 Pump 91 BLO in 40 hrs., Engine down 8 hrs., Lack 520 BLO.
- 11-14-60 Pump 28 BLO in 24 hrs., Lack 492 BLO, Pump appears to be gas locking.
- 11-15-60 Pump 28 BLO in 24 hrs., Lack 464 BLO.
- 11-16-60 Pump 22 BLO in 24 hrs., Lack 442 BLO, will ck fluid level today.
- 11-17-60 Pump 20 BLO 24 hrs., Lack 422 BLO, Checked fluid level at 3700 ft.
- 11-18-60 Pump 3 BLO in 24 hrs., Lack 419 BLO.
- 11-19,20,21-60 Sd pumping Sd & Sh from liner @ 4090'. SI 30 hrs., Checked fluid level @ 2700' or 1000', inr in 30 hrs., pull tbg. & rods, Top of sd in liner @ 4065', Will clean out liner & refrac using gelled crude oil, Lack 419 BLO from 1st frac.

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 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 "P" WELL NO. 1  
SEC. 30 T. 3N R. 15W COUNTY San Juan  
STATE New Mexico FIELD Undesignated  
A.F.E. NO. \_\_\_\_\_

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 3 -

11-22-60 Prep to frac thru liner w/gelled crude oil & sd, sd-pumped sd & sh from liner to 4103', sh apparently had worked up between liner & cas. & fallen into liner.

11-23-60 Prep to run sd pump after frac, fraced thru liner w/30,000 gal. Dowell petrogel plus 53,000# 10-20 mesh sd, BD formation @ 400#, Max & final press 2000 lb., overflush w/100 bbl. oil, avg. inj. rate 46 bbl per minute. Immediate SIP 400#, 15 min SIP 300#, 6 hr. SIP 150 lb., Lack 127 1/2 BLO from all treatments, Will clean out liner & run tbg. & rods.

11-24-60 Ran sd pump, found 100' of sd in liner, sd pumped for 12 hrs. Clean out 15' to 4070', sd entering liner @ same rate as removal. Ran 2 1/4" 2-1/16" FJ tbg. on 2-3/8" EUE tbg. Rev. circ to bottom of liner, pull tbg., Lack 115 1/2 BLO from all treatments.

11-25-60 Run 2-3/8" tbg to 3903, run pump & rods & POP.

11-25-60 Pump 12 1/2 BLO in 7 hrs., Lack 1130

11-27-60 Pumped 75 BLO in 2 1/2 hrs., Lack 1055

11-28-60 Pumped 70 BLO in 2 1/2 hrs., Lack 985

11-29-60 Pumped 13 1/2 BLO in 2 1/2 hrs., Lack 851 BLO

11-30-60 Pumped 110 BLO in 2 1/2 hrs., Lack 741 BLO

12-1-60 Pumped 98 BLO in 22 hrs., Lack 643 BLO

12-2-60 Pumped 58 BLO in 2 1/2 hrs., Lack 585 BLO

12-3-60 Pumped 60 BLO in 2 1/2 hrs., Lack 525 BLO

12-4-60 Pumped 30 BLO in 2 1/2 hrs., Lack 495 BLO

12-5-60 Pumped 30 BLO in 2 1/2 hrs., Lack 465 BLO

12-6-60 Pumped 30 BLO in 2 1/2 hrs., Lack 435 BLO

12-7-60 Pumped 29 BLO in 2 1/2 hrs., Lack 406 BLO

12-8-60 Pumped 32 BLO in 2 1/2 hrs., Lack 370 BLO

12-9-60 Pumped 21 BLO in 2 1/2 hrs., Lack 353 BLO

12-10-60 Pumped 19 BLO in 2 1/2 hrs., Lack 334 BLO

12-11-60 Pumped 19 BLO in 2 1/2 hrs., Lack 315 BLO

12-12-60 Pumped 19 BLO in 2 1/2 hrs., Lack 296 BLO

12-13-60 Pumped 21 BLO in 2 1/2 hrs., Lack 275 BLO

12-14-60 Pumped 20 BLO in 2 1/2 hrs., Lack 255 BLO

12-15-60 Pumped 19 BLO in 2 1/2 hrs., Lack 236 BLO

12-16-60 Pumped 17 BLO in 2 1/2 hrs., Lack 219 BLO

12-17-60 Pumped 15 BLO in 2 1/2 hrs., Lack 204 BLO

12-18-60 Pumped 12 BLO in 2 1/2 hrs., Lack 192 BLO

12-19-60 Pumped 3 BLO in est. 5 hrs., eng. died, lack 189 BLO

12-20-60 Pumped 17 BLO in 2 1/2 hrs., Lack 172 BLO

12-21-60 Pumped 13 BLO in 2 1/2 hrs., Lack 159 BLO

12-22-60 Pumped 14 BLO in 2 1/2 hrs., Lack 145 BLO

12-23-60 Pumped 3 BLO in est. 5 hrs., eng. died, Lack 142 BLO

12-24-60 Pumped 3 BLO in 2 1/2 hrs.

12-25-60 Pumped 10 BLO in 2 1/2 hrs.

12-26-60 Pumped 10 BLO in 2 1/2 hrs.

CORRECT \_\_\_\_\_

ENGINEER

APPROVED \_\_\_\_\_

SUPERINTENDENT

*E. D. Ramsey*

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 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 WELL NO. 1  
SEC 30 T. 30N R. 15W COUNTY San Juan  
STATE New Mexico FIELD Undesignated  
A.F.E. NO. \_\_\_\_\_

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

- 4 -

12-27-60 Pumped 8 BLO in 24 hrs., Lack 111 BLO  
12-28-60 Pumped 6 BLO in 12 hrs., Lack 105 BLO  
12-29-60 MI Sayers Well Servicing pulling unit, pull rods & tbg., pump stuck, ck sd in liner @ 4085' or 30' of sd in liner, Release pulling unit.  
12-30-60 SI, Lack 105 BLO  
12-31-60 thru  
1-1,2,3-60 SI  
1-4-61 MI J.P. "Bum" Gibbins cable tool unit.  
1-5-61 Rig up cable tools, Ran 210' 2-1/16" FJ tbg. on bottom of 2-3/8" tbg, found top of sd @ 4067' in 4" liner or 28' of sd in liner, circ 0.1 to bottom of liner.  
1-6-61 Preparing to pull liner, circ to 4099' in 4" liner, tbg. plugged with Sh, pulled tbg. ran releasing spear, hyd jars, drill collars on 2-3/8" tbg.  
1-7,8,9-60 Cleaning out @ 4030' with drilling tools & sand pump, pulled 2-3/8" tbg, fishing tools & 4" hydril FJ liner. Ran cable tool bit, found top of shale and sand savings @ 4021' or 95' above T.D. Drill & sand pump to 4027', csg. swab 45 BLO, Hole caved 3990'.  
1-10-61 Cleaning out Sh & sd @ 4065', Est. 1500' oil in hole.  
1-11-61 Cleaning out Sh & sd @ 4110', Hole continuing to cave.  
1-12-61 Cleaning out sd & Sh @ 4107', Swab total of 150 BLO, Lack 152 BLO from all jobs, 1400' oil in hole, Will continue cleaning out Sh & swabbing.  
1-13-61 Clean out sd & Sh to CTB 4115', Swab 28 BLO, Lack 124 BLO, Fluid level dropped, 200' oil in hole.  
1-14,15,16-61 Pump 18 BLO in 12 hrs., lack 106 BLO, set 186' 4" Hydril FJ liner on bottom 4115', Run tbg, pump, and rods, POP, release J.P. "Bum" Gibbins cable.  
1-17-61 Pump 20 BLO in 24 hrs., Lack 86 BLO from all jobs.  
1-18-61 Engine died, no rec., Lack 86 BLO  
1-19-61 Pump 15 BLO in 24 hrs., lack 71 BLO  
1-20-61 Pump 17 BLO in 24 hrs., Lack 54 BLO  
1-21-61 Pump 24 BLO in 24 hrs.  
1-22-61 Pump 7 BLO in 24 hrs.  
1-23-61 Pump 3 BLO in 24 hrs., Lack 20 BLO  
1-24-61 Pump no fluid  
1-25-61 Check fluid level - 1500' fluid in hole after approx. 40 hrs. SI, Jarred stuck valve in pump loose. Well now pumping.  
1-26-61 Pump 15 BLO in 24 hrs., Rec all load oil from all jobs plus 3 BNO.  
1-27-61 Pump 17 Bbl oil in 24 hrs. - New oil  
1-28-61 Pump 15 Bbl oil in 24 hrs.  
1-29-61 Pump 3 Bbl oil, Eng died  
1-30-61 Pump 15 Bbl oil in 24 hrs.  
1-31-61 Pump 18 Bbl oil in 24 hrs.  
2-1-61 Potential test - Pump 18 Bbl oil, no wtr., in 24 hrs., gas TSTM, Well Complete

CORRECT

ENGINEER

APPROVED

SUPERINTENDENT