

THIS FORM IS TO BE SUBMITTED ALONG WITH FORM NO. 116 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT OF A DRY HOLE. SHOW INFORMATION CONCERNING THE WELL IN CHRONOLOGICAL ORDER, WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF HOLE WITH REASONS. LIST OPERATIONS, LOGS, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CORING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PROBLEMS SUCH AS OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF SHOES AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED PRIOR TO COMPLETION, SUBMERGED PUMP, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE N. M. Federal "N" WELL NO. 3  
SEC. 18 T. 30N R. 12W COUNTY San Juan  
STATE New Mexico FIELD  
A.P.R. NO. 60-358

ALL DEPTHS FROM TOP OF FIRST SUBMERGED PUMP OR OTHER DEPTH MEASUREMENT.

| Date   | Depth | Remarks                                                                                                                                                                                                                                                                                                                                                 |
|--------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4/5    |       | N.M. Federal "N" #3 was staked by San Juan Engineering Co. 1190' FNL & 1190' FNL, Sec. 18-T30N-R12W, San Juan County, N.M., Elev. 5933, Derrick Floor 5924', Ground Level 5924'.                                                                                                                                                                        |
| 4/9-11 |       | Preparing location & road by Younger Construction.                                                                                                                                                                                                                                                                                                      |
| 4/14   |       | Moved in rotary tools - Mondo Drilling Company                                                                                                                                                                                                                                                                                                          |
| 4/15   |       | Rigging up rotary tools., Spd 12 1/4" hole 7:30 P.M.                                                                                                                                                                                                                                                                                                    |
| 4/16   |       | Finished drilling surface hole to 360' @ 2:30 A.M. Ran 12 jts - 362.17' - of 8 5/8" @ 2 1/2" J-55 STD Thd csg, Rgs. 2, STAC, set at 356.23' w/325 ex reg neat ext w/2% CaCl <sub>2</sub> circ. 40 sacks at surface. Used Baker MDW shoe, 2 centralizers 90 ft apart, casinghead 11' below KDB, Best Life thread lubricant. <i>Paula Dunn</i><br>6:30 AM |
| 4/17   |       | WCE 24 hrs. Nipple up BOP & test csg to 1000# for 30 min.                                                                                                                                                                                                                                                                                               |
| 4/18   | 1913' | Trip for bit #1 @ 1913', progress 1913'. Straight hole test, 600' 1/4", 1100' 1/2", 1913' 1/2", Mud 9.2# 35 Vis 22 ML.                                                                                                                                                                                                                                  |
| 4/19   | 2930' | Progress 1937' sd & sh, top Flathead Cliffs 2045' plus 3689'. No show. Straight hole test 1/2" @ 2930'. Mud 9.0# 35 Vis 8 ML.                                                                                                                                                                                                                           |
| 4/20   | 3470' | Progress 520' sd & sh, Top Mesaverts 2835 plus 3099 - no show. Straight hole test 3/4" 1", Mud 9.3# 37 Vis 6 ML.                                                                                                                                                                                                                                        |
| 4/21   | 3880' | Progress 410' sd & sh. Straight hole test 3717' 1/4", Mud 9.4# 38 Vis 7 ML.                                                                                                                                                                                                                                                                             |
| 4/22   | 4181' | Progress 388' sd & sh. Straight hole test 4181' 3/4", Mud 9.3# Vis 90 7 ML.                                                                                                                                                                                                                                                                             |
| 4/23   | 4480' | Progress 418' sd & sh, straight hole test 4480' @ 4480', Mud 9.5#, 49 Vis 9 ML.                                                                                                                                                                                                                                                                         |
| 4/24   | 5080' | Progress 388' sh, @ 5080', Mud 9.4# Vis 45 8 ML.                                                                                                                                                                                                                                                                                                        |
| 4/25   | 5380' | Progress 310' sd & sh, 1/4" 5380', Mud 9.7#, 44 Vis 8 ML. Lost piece from cone & bearings on bit 5380'. Ran bit 5380' w/ junk basket.                                                                                                                                                                                                                   |
| 4/26   | 5780' | Progress 410' sh, Mud 9.8#, 47 Vis 8 ML. recovered piece of cone & bearings lost from bit 5380'.                                                                                                                                                                                                                                                        |
| 4/27   | 6090' | Progress 370' sd & sh, 1/4" 5770', Mud 9.7#, Vis 62 6 ML, slight fluorescence in wet sample between 5870' & 5980'. No fluorescence, no show in dry sample.                                                                                                                                                                                              |
| 4/28   | 6580' | Progress 430' sh, 1/2" 6350', Mud 9.7#, Vis 77 4.5 ML.                                                                                                                                                                                                                                                                                                  |
| 4/29   | 6670' | Progress 150' sd & sh, Lost circ 6625' for 2 hrs., total 300 bbls of mud. Regained 100% circ mud 9.4 Vis 94 6 ML.                                                                                                                                                                                                                                       |
| 4/30   | 6843' | Progress 173' sd & sh, 3/4" @ 6750', 9.4-9.7# Mud 100Vis 6 ML.                                                                                                                                                                                                                                                                                          |



10-1 00000

THIS FORM TO BE SUBMITTED ALONG WITH FORM NO. 114 NOT LATER THAN 10 DAYS AFTER WELL COMPLETION OR ABANDONMENT IF A NEW HOLE. SHOW HISTORICAL DETAILS IN CHRONOLOGICAL ORDER, WITH DATE, CONDITION AND DEPTH OF HOLE. SHOW CHANGES IN TYPE OF HOLE WITH REASONS. LIST CIRCULATION, ALLOWABLE, SURVEYS FOR DEVIATION FROM VERTICAL, DRILL STEM TESTS, CASING DEPTHS, ELECTRICAL SURVEYS, DESCRIPTION OF POSSIBLE PROBLEMS NOTED DURING OFF, DESCRIPTION OF CASING JOBS SHOWING TYPES OF CEMENT AND FLOAT EQUIPMENT, DETAILS OF CASING PULLED FROM TO COMPLETION, OBSERVED FISH, CRIP AND ABANDONING REASONS, PLUGS, ETC.

USE TYPEWRITER

# HISTORY OF WELL AT TIME OF COMPLETION

LEASE H.M. Federal WELL NO. 1  
 SEC. 10 T. 7N R. 12W COUNTY San Juan  
 STATE New Mexico FIELD  
 A.P.E. NO. 60-358

ALL DEPTHS FROM TOP OF HEAVY BENDING UNLESS OTHERWISE SPECIFIED

Date  
1960

TOTAL  
Depth

- 5/1 6875' Finished hole 3:00 P.M. 4/30/60, run Schl MB-Industries, GB-Sonic Logs. Schl ID (Rotary) 6874' - 1525.87' - 1 1/2" OD 11.64 J-55 8 MD, Rgs 2 Cag, ST&C & 165 jts - 538.76' - 1 1/2" OD 9.56 J-55 8 MD CFI Cag, ST&C (Thds off measure- ments) set at 6,875' w/325 ann 50-50, cement w/12 1/2" Gileonite per ex, plug down. Used 25 perches 12' apart, 10 centralizers 90' apart, Baker Flex Flow Float, Baker WDM shoe, casinghead 11' below KB. Plug down 3:00 P.M. 5/1/60. MOC 4 hrs, Nipple up 1 1/2" cag & install tree, run temp survey. Top art 5300' in Annulus. Top of art in cag 6542'. Top of Dakota 6562' (-628).
- 5/2 6875' - Wt & pickup 2 3/8" tbg & stand in derrick.
- 5/3 Press test cag to 2500' for 30 min - no leak. Run Lane Wells WFC log TH-6830'. Log from 6330' to 6830'. Lane Wells meas. flat w/Schl sonic log. Perf. 6564' to 6572', 6578' to 6582', 6608' to 6608', 6624' to 6630', 6642' to 6656', 6674' to 6680' w/2 Jet holes per fth. Total of 88 holes. Meas from Schl sonic log. Run 2 3/8" tbg in hole.
- 5/4 Run tbg to 6697', treat perf w/500 gallons Dowell BDA. Displace hole w/treated wtr. Spot acid across perf. Spgs said into formation @5080' @5 BFM. Press dropped to "0" immediately after acid was displaced. Palled tbg, rig up Dowell for ad wtr free treatment. Treat perf w/80,000 gal wtr & 80,000# 20-40 mesh ad. Used 2 1/2" of J-200 & 1 gal H2O2 per one thousand gal wtr. Break down formation w/wtr @3000' press dropped to 2300' @3 BFM. Pumped 25,000 gal & 25,000# ad @2300' - dropped 20 rubber balls. No increase in press. Pumped 25,000 gal & 25,000# ad @2300', dropped 20 rubber balls, press increased from 2300' to 2600', pumped 10,000 gal & 10,000# ad @2100', dropped 10 rubber balls, Press increased from 2100' to 2300', pumped 20,000 gal wtr & 20,000# ad @2100' final press on flash 2600', max press 3800' avg inj rate 43 BFM, immediate shut down press 1250', 5 min 1000', 15 min 700', 1 hr 500', 4 hr 250', open well to pit & bleed off press w/approx 150 BW. Run 206 jts 2 3/8" OD - BUE 4.7# J-55 tbg. The point 6547' w/pin collar. Nipple up well head. Well started flowing in pit 9 P.M. 5/1/60. Flow to pit in 10 hrs cag press increased from 150' to 250', tbg press 2300'. Flowing 14/16" choke. Released Bando Valg Rig 7 A.M. 5/4/60.
- 5/5 Flow to pit 24 hrs on 14/16" choke, tbg press 150' beginning 24 hr test, 100' cag press 150' after 24 hrs. Gauge 1200 MFPD plus estimated 10 BW & 1 bbl cond per hr. No condensate.
- 5/6 Flow to pit 24 hrs. 14/16" choke. Estimate 1500 MFPD plus estimated 10 BW & 1 bbl cond per hr. FIP 1000', FCP 1000', shut in 3 hrs, SIIP 1175', SICP 1200'.
- 5/9 SI 23 hrs, SIIP 1690', SICP 430', clean to pit 1 hr, produced estimated 10 bbls wtr & 1 bbl cond.
- 5/10 SI 27 hrs, SIIP 1980', SICP 1090', clean to pit 1 hr, prod an estimated 10 BW & 1 bbl cond per hr, FIP 1300', FCP 900'.

CORRECT

REVISION

APPROVED

SUPERINTENDENT



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1000

STATE SURVEY

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, DISINTEGRATED PION, SHOT AND ACIDIZING RECORDS, PLUGS, ETC.

USE TYPEWRITER.

HISTORY OF WELL  
AT TIME OF COMPLETION

LEASE N.M. Federal "N" WELL NO. 3  
SEC. 18 T. 30N R. 12W COUNTY San Juan  
STATE New Mexico FIELD  
A.P.E. NO. 60-358

ALL DEPTHS FROM TOP OF KELLY BUSHING UNLESS OTHERWISE SPECIFIED.

| Date | Total Depth                                                                                                                                                                |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5/11 | SI 22 hrs, SITP 1923#, SICP 1975#, clean to pit 1 hr, produced an est 10 BW & 1 bbl cond per hr.                                                                           |
| 5/12 | SI 23 hrs, SITP 1625#, SICP 1690#, flow to pit 1 1/2 hrs an est 10 BW & 1 bbl cond per hr, FTP 300#, FCP 950#.                                                             |
| 5/13 | SI 24 hrs, SITP 1925#, SICP 1950#.                                                                                                                                         |
| 5/16 | SI 21 hrs, SITP 1960#, SICP 1980#, clean to pit 2 hrs, est 10 BW & 1 bbl cond per hr, FTP 300#, FCP 700#, after 2 hrs flowing.                                             |
| 5/17 | SI 17 hrs, SITP 1900#, SICP 1940#, clean to pit 2 hrs, est 8 BW & 1 bbl cond per hr, FTP 300#, FCP 680#.                                                                   |
| 5/18 | SI 52 hrs, SITP 1975#, SICP 2000#, clean to pit 3 hr, est 5 BW & 1 bbl cond per hr, FTP 275#, FCP 675# after 3 hr. SI for 7 day SI press test.                             |
| 5/19 | SI for 7 day press test.                                                                                                                                                   |
| 5/20 | "                                                                                                                                                                          |
| 5/23 | "                                                                                                                                                                          |
| 5/24 | "                                                                                                                                                                          |
| 5/25 | "                                                                                                                                                                          |
| 5/26 | Ran 1 point back press test. SI 7 days, SITP 2040#, SICP 1545#, flow on 3/4" choke 3 hrs, FTP 300#, FCP 690#, Ga 2536 MCFFD, absolute potential 2786 MCFFD, Well complete. |

CORRECT

CHECKED

APPROVED

SUPERINTENDENT

