-16-27N-71

## SAN JUAN 28-7 UNIT 166M (AWS 10/3/2001) **Initial Completion** Daily Summary W Dist. (ft) State/Province ounty RIO ARRIBA NEW MEXICO NMPM-27N-7W-16-E 1725.0 800.0 300392673600 atitude (DMS) Spud Date Rig Release Date Ground Elev (ft) 36° 34' 33.5496" N 107° 35' 9.2004" W 9/17/2001 9/27/2001 6640.00 Ops This Rpt Held safety mtg. RU schlumberger wireline and mast truck.PU CBL logging tools and RIH and tag @ 7587'. RU stinger pressure pump and load csg. Put 1000# on csg. Run CBL w/GR/CCL/VDL from 7587' to 1400'. TOC @ 1700' and falls completely out of cement @ 1630'.POOH w/ wireline.Pressure test csg. to 4300#. Bleed down. PU TDT logging tools. RIH and tag @ 7587'. Run TDT 10/3/2001 w/ GR/CCL from 7587' to 2000,' POOH and RD services companys.Secure well and SDFN. Held safey mtg. MiRU unit #10. And equipment.ND frac valve, NU bop. TIH picking up w/ bit ,bit sub and 214 jts 2 3/8" tbg. Tag @ 10/11/2001 7616'. RU swivel and drill 3'. to 7619'. Circulate clean . Secure well and SDFN 7616'. RU swivel and drill 3'. to 7619'. Circulate clean. Secure well and SDFN. Held safety mtg. Pressure test csg to 4200# Open well and POOH w/ 241 jts. tbg., bit sub and bit. RD BOP, RU Frac valve. RU Blue jet wireline and RIH and tag @ 7621'. Pull gr/ccl log from 7621' to 7200'. POOH, RD wireline. Secure well. RD unit and equipment. MO location. Will do rigless frac work and move rigback in for clean out. Held safety mtg. RU Blue jet wireline. PU 3 1/8" csd. hole guns w/ 12g 306T 90^ pp charges and RIH and perforate the Dakota sands as follows: 7390'-7405',7410'-7430',7480'-7500', 7520'-7538', 7544-7562', 7568'-7578',7582'-7598',7602'-7613'. All shots are 2 SPF 0/12/2001 10/17/2001 for a tot of 256, .34" holes.RD wireline.Held pre- job safety mtg. RL ,Stinger isolation tool. RU BJ Services frac unit. Pressure test lines to 4800#. Set and test pop-off @ 3820#. Sart B/D , Formation broke @ 2400#. Pumped @ 40 bpm & 3400#.S/D ISDP= 1500, FG= 65 psi/ft Swap to 15% HCL @ 10 bpm & 1710#. Pumped 1000 gal.Start pre-pad w/ 4600# 100 mesh sand @ .25 ppg.@ 36 bpm & 3250#. Sart pad @ 58 bpm & 3332#. Start .5 # sand @ 58 bpm & 3360#. Start 1# sand @ 50 bpm & 3267#, Start 1.5# sand @ 50 bpm & 3254#. Called flush @ 1 ppg . Flushed w/ 113 bbl . Av. Rate = 54 bpm , Av psi= 3250#. 100,000# 20/40 brady, 4600# 100 mesh. ISDP= 2200#.Fluid to recover=3681 bbl. RD service companys . Secure well and SDFN. Held safety mtg. SICP=0#. MI key rig # 10 and equipment. MI and spot air unit. RU unit. ND master valve. NU BOP. Secure well and 11/5/2001 Held safety mtg. SICP=0#. RU Pump, pit and blewie lines. RU Quadco and test BOP. Blind and pipe rams would not test. Wait for 11/6/2001 new ram blocks. Install and re-test. Test was no good. Door pin for ram blocks is leaking. Called for new BOP from knight oil tools. Secure well and SDFN Held safety mtg. ND BOP, NU new BOP. RU Quadco and test BOF. Test was good. PU MS,SN and TIH w/ 114 jts 2 3/8" tbg. and 11/7/2001 unload well w/ air mist. After relieving the hydrostatic head the well started unloading on its own. SD air mist and let the well clean up. Well is unloading sand and fluid. Secure well and SDFN. Held safety mtg. SICP=2100#. Bleed csg. down and kill tbg. w/10 bbl kcl. TIH picking up off of float w/ 127 jts 2 3/8" tbg. Tag fill @ 11/8/2001 7596'. C/O to PBTD of 7621'. Circulate clean for remainder of the day. POOH w/ 3 its. Secure well and SDFN. Held safety mtg. SICP= 2150#. Bleed csg down and kill tbg. w/ 10 bbl kcl. Land well @ 7525 ' w/ 238 its 2 3/8" A cond. tbg. RD, BOP 11/9/2001 RU master valve. Open tbg. and let well flow for a 4 hr. stabilized test. TEST DAKOTA SANDS AS FOLLOWS: DK PERFS FROM 7390' TO 7613' 2 3/8" TBG. LANDED @ 7525 w/KB TESTED W/ 1/2" CHOKE. COEFICIANT OF 6.6 SICP=850# FLOWING TBG. PSI=480# PRODUCTION= 3168 MCFPD 20 BWPD 2 BOPD SAND PRODUCTION 0 BBL CONDENSATE TEST WITNESSED BY T. MONK W/ KEY ENERGY SERVICES. SIW waiting for facilities to be built.RD unit and equipment. Move unit off location. Turn over to operator and EPNG.



| AN OUAN                      | I 28-7 UNIT 166M (AWS 10/3/2001) Initia<br>Daily Summary   | I Com  | pletic   |  |  |  |  |  |  |  |  |
|------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| PI                           | County State/Province Surface Legal Location NS Dist. (ft) NS Flag EV  | V Dist. (ft)<br>800,0  | EW Flag<br>W   |  |  |  |  |  |  |  |  |
| 300392673<br>round Elev (ft) | Spud Date Rig Release Date Latitude (DMS) Longitude (DMS)  |  | L  |  |  |  |  |  |  |  |  |
| 6640                         | 0.00 9/17/2001 9/27/2001 36° 34' 33.5496" N 107° 3   | 35' 9.2004 <u>"</u>  | VV   |  |  |  |  |  |  |  |  |
| Start                        | Ops This Rpt Held safety mtg. RU schlumberger wireline and mast truck.PU CBL logging tools and RIH and tag @ 7587'. RU   | stinger n  | OCCUPO.  |  |  |  |  |  |  |  |  |
| 0/3/2001                     | pump and load csg. Put 1000# on csg. Run CBL w/GR/CCL/VDL from 7587' to 1400'. TOC @ 1700' and falls of cement @ 1630'.POOH w/ wireline.Pressure test csg. to 4300#. Bleed down. PU TDT logging tools. RIH and ta  | completely   | out of   |  |  |  |  |  |  |  |  |
| 0/11/2001                    | w/ GR/CCL from 7587' to 2000,'. POOH and RD services companys Secure well and SDFN.  Held safey mtg. MIRU unit #10. And equipment ND frac valve, NU bop. TIH picking up w/ bit ,bit sub and 214 jt.  7616'. RU swivel and drill 3'. to 7619'. Circulate clean . Secure well and SDFN.  | s 2 3/8" tb(   | g. Tag @   |  |  |  |  |  |  |  |  |
| 0/12/2001                    | Held safety mtg. Pressure test csg to 4200# Open well and POOH w/ 241 jts. tbg., bit sub and bit. RD BOP, RU Frac valve. RU Blue jet wireline and RIH and tag @ 7621'. Pull gr/ccl log from 7621' to 7200'. POOH, RD wireline. Secure well. RD unit and equipment. MO location. Will do rigless frac work and move rigback in for clean out.   |  |  |  |  |  |  |  |  |  |  |
| 0/17/2001                    | Held safety mtg. RU Blue jet wireline. PU 3 1/8" csd. hole guns w/ 12g 306T 90^ pp charges and RIH and perforance as follows: 7390'-7405',7410'-7430',7480'-7500'. 7520'-7538', 7544'-7562', 7568'-7578',7582'-7598',7602'-7613' for a tot of 256, .34" holes.RD wireline. Held pre- job safety mtg. RU ,Stinger isolation tool. RU BJ Services frac lines to 4800#. Set and test pop-off @ 3820#. Sart B/D , Formation broke @ 2400#. Pumped @ 40 bpm & 3400 FG=.65 psi/ft Swap to 15% HCL @ 10 bpm & 1710#. Pumped 1000 gal. Start pre-pad w/ 4600# 100 mesh sand & 3250#. Sart pad @ 58 bpm & 3332#. Start .5 # sand @ 58 bpm & 3360#. Start 1# sand @ 50 bpm & 3267#, bpm & 3254#. Called flush @ 1 ppg . Flushed w/ 113 bbl . Av. Rate = 54 bpm , Av psi= 3250#. 100,000# 20/40 | .All shots a<br>unit. Press<br>D#.S/D ISD<br>  @ .25 ppo<br>Start 1.5# : | are 2 SPF<br>sure test<br>)P= 1500,<br>g.@ 36 bpr<br>sand @ 50 |  |  |  |  |  |  |  |  |
| 1/5/2001                     | mesh. ISDP= 2200#.Fluid to recover=3681 bbl. RD service companys . Secure well and SDFN. Held safety mtg. SICP=0#. MI key rig # 10 and equipment. MI and spot air unit. RU unit. ND master valve. NU E   | 3OP. Secu  | re well and  |  |  |  |  |  |  |  |  |
| 1/6/2001                     | SDFN. Held safety mtg. SICP=0#. RU Pump, pit and blewie lines. RU Quadco and test BOP. Blind and pipe rams would not test. Wait for new ram blocks. Install and re-test. Test was no good. Door pin for ram blocks is leaking. Called for new BOP from knight oil tools.   |  |  |  |  |  |  |  |  |  |  |
| 1/7/2001                     | Secure well and SDFN.  Held safety mtg. ND BOP, NU new BOP. RU Quadco and test BOP. Test was good. PU MS,SN and TIH w/ 114 jts 2 3/8" tbg. and unload well w/ air mist. After relieving the hydrostatic head the well started unloading on its own. SD air mist and let the well clean up. Well is unloading sand and fluid. Secure well and SDFN.   |  |  |  |  |  |  |  |  |  |  |
| 1/8/2001                     | Held safety mtg. SICP=2100#. Bleed csg. down and kill tbg. w/10 bbl kcl. TIH picking up off of float w/ 127 jts 2 7596'. C/O to PBTD of 7621'. Circulate clean for remainder of the day. POOH w/ 3 jts. Secure well and SDFN.  | 3/8" tbg. T  | ag fill @  |  |  |  |  |  |  |  |  |
|                              | , RU master valve. Open tbg. and let well flow for a 4 hr. stabilized test. TEST DAKOTA SANDS AS FOLLOWS DK PERFS FROM 7390' TO 7613' 2 3/8" TBG. LANDED @ 7525 w/KB TESTED W/ 1/2" CHOKE. COEFICIANT OF 6.6 SICP=850# FLOWING TBG. PSI=480# PRODUCTION= 3168 MCFPD 20 BWPD 2 BOPD 0 SAND PRODUCTION 0 BBL CONDENSATE TEST WITNESSED BY T. MONK W/ KEY ENERGY SERVICES. SIW waiting for facilities to be built.RD unit and equipment. Move unit off location. Turn over to operator and EP   |  |  |  |  |  |  |  |  |  |  |
|                              | DEC 2001   |  |  |  |  |  |  |  |  |  |  |



| SAN JUAN 28-7  | <b>UNIT 166M</b>  | (AWS 10/3/2   | 001)  |  |  |  | ln  | itial Co                          | mpletior                      |  |  |  |
|--|---|---|---|--|--|--|---|-----------------------------------|-------------------------------|--|--|--|
|  |   |   |   | Summary  | ,  |  |   |                                   |                               |  |  |  |
| 300392673600   | County<br>RIO ARRIBA  | State/Province<br>NEW MEXICO                                      | Surface Leg                                 | al Location<br>IMPM-27N-7W-  | 16-E                                       | NS Dist. (ft)<br>1725.0  | NS Flag<br>N                              | EW Dist. (ft)<br>800.0            | EW Flag<br>W                  |  |  |  |
| Ground Elev (ft)<br>6640.00  | Spud Date 9/17/20   | Rig Release I   | Date //2001                                 | Latitude (DMS)<br>36° 34   | 4' 33.5496"                                | N  | Longitude (DM<br>1                        | s)<br>07° 35' 9.200               | 4" W                          |  |  |  |
| 0040.00  | 371720  |   | ,   |  |  |  |   |                                   |                               |  |  |  |
| Start<br>10/3/2001 Held :  | afety mta PII sch   | lumberger wireline  | and mast tru                                | Ops This Re  | t<br>ging tools a                          | nd RIH and   | tag @ 7587                                | ". RU stinger                     | pressure                      |  |  |  |
| pump<br>ceme:<br>w/ GB   | and load csg. Put<br>nt @ 1630'.POOH  | 1000# on csg. Run<br>w/ wireline.Pressur<br>> 2000 ' POOH and     | CBL w/GR/<br>e test csg. to<br>t RD service | CCL/VDL from 7<br>o 4300#. Bleed o<br>es companys.Se   | 7587' to 140<br>iown. PU T<br>cure well ar | 00' . TOC @<br>DT logging t<br>nd SDFN.  | ools. RIH a                               | ralls complete<br>nd tag @ 758    | ly out of<br>37' . Run TDT    |  |  |  |
| 10/11/2001 Held s  | Held safety mtg. MIRU unit #10. And equipment.ND frac valve, NU loop. TIH picking up w/ bit ,bit sub and 214 jts 2 3/8" tbg. Tag @ 7616'. RU swivel and drill 3'. to 7619'. Circulate clean . Secure well and SDFN.  Held safety mtg. Pressure test csg to 4200# Open well and POOH w/ 241 jts. tbg., bit sub and bit. RD BOP, RU Frac valve. RU Blue   |   |   |  |  |  |   |                                   |                               |  |  |  |
| iet wir  | eline and RIH and   | tag @ 7621' . Pull<br>ess frac work and m                         | gr/ccl log fro<br>love rigback              | om 7621' to 7206<br>in for clear⊨out   | )'. POOH , I                               | RD wireline.   | eline.Secure well. RD unit and equipment. |                                   |                               |  |  |  |
| 10/17/2001 Held s<br>as foll<br>for a t<br>lines t<br>FG=.6<br>& 325                   | Held safety mtg. RU Blue jet wireline. PU 3 1/8" csd. hole guns w/ 12g 306T 90^ pp charges and RIH and perforate the Dakota sands as follows: 7390'-7405',7410'-7430',7480'-7500', 7520'-7538', 7544'-7562', 7568'-7578',7582'-7598',7602'-7613'. All shots are 2 SPF for a tot of 256, 34" holes.RD wireline. Held pre- job safety mtg. RU ,Stinger isolation tool. RU BJ Services frac unit. Pressure test lines to 4800#. Set and test pop-off @ 3820#. Sart B/D , Formation hooke @ 2400#. Pumped @ 40 bpm & 3400#.S/D ISDP= 1500, FG=.65 psi/ft Swap to 15% HCL @ 10 bpm & 1710#. Pumped 1000 gal. Start pre-pad w/ 4600# 100 mesh sand @ .25 ppg.@ 36 bpm & 3250#. Sart pad @ 58 bpm & 3332#. Start .5 # sand @ 58 bpm & 3350#. Start 1.5 # sand @ 50 bpm & 3250#. Called flush @ 1 ppg . Flushed w/ 113 bbl . Av. Rate = 54 bpm , Av psi= 3250#. 100,000# 20/40 brady, 4600# 100 |   |   |  |  |  |   |                                   |                               |  |  |  |
| 11/5/2001 Held s   | mesh. ISDP= 2200#.Fluid to recover=3681 bbl. RD service companys. Secure well and SDFN.  Held safety mtg. SICP=0#. MI key rig # 10 and equipment. MI and spot air unit. RU unit. ND master valve. NU BOP. Secure well and SDFN.   |   |   |  |  |  |   |                                   |                               |  |  |  |
| 11/6/2001 Held s<br>new ra   | Held safety mtg. SICP=0#. RU Pump, pit and blewie lines. RU Quadco and test BOP. Blind and pipe rams would not test. Wait for new ram blocks. Install and re-test. Test was no good. Door pin for ram blocks is leaking. Called for new BOP from knight oil tools. Secure well and SDFN.  |   |   |  |  |  |   |                                   |                               |  |  |  |
| 11/7/2001 Held s   | afety mtg. ND BOF   | P, NU new BOP. RU<br>fter relieving the hy<br>nd fluid. Secure we | drostatic he                                | ad the well start  | st was good<br>ed unloadin                 | I. PU MS,SN<br>g on its owr  | l and TIH w<br>. SD air mi                | / 114 jts 2 3/8<br>st and let the | b" tbg. and<br>well clean up. |  |  |  |
| 11/8/2001 Held s   | afety mtg. SICP=2   | 100#. Bleed csg. de   | own and kill<br>ofor remains                | tbg. w/10 bbl ko<br>ter of the day. F  | 'OOH w/3 i                                 | ts. Secure v   | <i>r</i> ell and SU                       | -N.                               |                               |  |  |  |
| , RU n<br>DK PE<br>2 3/8"<br>SICP=<br>FLOW<br>PROD<br>20 BW<br>2 BOF<br>0 SAN<br>0 BBL | naster valve. Open<br>IRFS FROM 7390'<br>TBG. LANDED @<br>1850#<br>10G TBG. PSI=480<br>UCTION= 3168 M<br>1PD<br>ID PRODUCTION<br>CONDENSATE<br>WITNESSED BY T   | 7525 w/KB TESTE<br>D#   | w for a 4 hr.<br>D W/ 1/2" Cl               | stabilized test.  HOKE. COEFIC   | TEST DAK(                                  | OTA SANDS  | S AS FOLL                                 | ows:                              |                               |  |  |  |
|  |   |   |   | STATSTATE OF THE PARTY OF THE P | DEC 200<br>RECEIVED                        | A CONTRACTOR OF THE CONTRACTOR |   |                                   |                               |  |  |  |