DATE

TITLE

BY

CONDITIONS OF APPROVAL, IF ANY:

#### 5/22/01

MIRU KEY RIG #8. ND WELLHEAD. NU BOP. PU 3-7/8" BIT, BIT SUB, 4 JTS. 3-1/8" DRILL COLLARS, AND 2-3/8" EUE J-55 TBG. TO CEMENT @ 4874'. PU 2.5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILL OUT CEMENT TO FLOAT COLLAR @ P.B.T.D.(4893'). LD 2.5 POWER SWIVEL. TEST CASING TO 1000#, AND HELD.

#### 5/29/01

ND WELLHEAD. NU BOP. RU MOTE. RU SCHLUMBERGER. INSTALL LUBRICATOR. RAN CBL W/ GR/CCL/VDL W/ 1000# ON BACKSIDE FROM 4871' TO 3259'. TOP OF CEMENT @ 4750'. RD SCHLUMBERGER. PRESSURE TEST CASING TO 3000# AND HELD. RD MOTE. ND BOP. NU WELLHEAD.

#### 8/09/01

MIRU KEY RIG #22. ND WELLHEAD. NU BOP. RU SCHLUMBERGER. PERFORATED 4-WAY SHOT @ 4740' USING 4" HCG GUN W/ 90 DEGREES PHASE. RD SCHLUMBERGER. PU 7" CEMENT RETAINER AND TIH W/ 2-3/8" EUE J-55 TBG. TO 4670', AND SET. RU HALLIBURTON. PRESSURE TEST TBG. TO 800# AND HELD. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. ESTABLISH RATE @ 3 BPM @ 250#. PUMP 110 BBLS. WATER W/ LIGHT CIRCULATION TO SURFACE AFTER 75 BBLS. PUMPED.

#### 8/10/01

RU HALLIBURTON. PUMP 20 BBLS. WATER AHEAD @ 400# @ 3 BPM AND BROKE DOWN TO 15#. PUMP 300 SACKS LEAD CEMENT, (12.3#, 1.91 YIELD), @ 200# @ 3 BPM, AND 100 SACKS TAIL CEMENT, (15.6#, 1.18 YIELD), @ 15# @ 3 BPM. PULLED OUT OF RETAINER AND DROPPED 1 BBL. CEMENT ON TOP OF RETAINER. RD HALLIBURTON. TOOH AND LD RETAINER STINGER.

#### 8/13/01

PU 6-1/4" BIT W/ BIT SUB, AND TIH W/ 2-3/8" EUE J-55 TBG. TO TOP OF CEMENT @ 4637'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT TO TOP OF RETAINER @ 4670'. POWER SWIVEL BROKE. PUIC.

#### 8/14/01

RIH AND TAGGED TOP OF CEMENT RETAINER @ 4670'. PU 2.5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT RETAINER AND CEMENT TO 4746'. CIRCULATED HOLE CLEAN TO P.B.T.D.(4893'). TOOH AND LD BIT. RU SCHLUMBERGER. RAN CBL FROM P.B.T.D.(4893') TO 3600'. CEMENT TOP @ 4530'. RIH AND PERFORATED 4-WAY SHOT @ 4400' USING 4" HCG GUN W/ 90 DEGREES PHASE. RD SCHLUMBERGER. PUMP INTO SQUEEZE HOLES @ 1.5 BPM @ 250# TO 350#.

# 8/15/01

PU 7" CEMENT RETAINER AND TIH W/ 2-3/8" EUE J-55 TBG. TO 4357', AND SET. RU HALLIBURTON. PRESSURE TEST TBG. TO 2000# AND HELD. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. ESTABLISH RATE @ 3 BPM @ 1400#. PUMPED 20 BBSL. OF WATER AHEAD @ 1400# @ 3 BPM. PUMP 500 SXS. LEAD CEMENT, (12.3#, 1.91 YIELD), @ 300# TO 1000# @ 3 BPM, AND 100 SXS. TAIL CEMENT, (15.6#, 1.18 YIELD), @ 1000# @ 3 BPM. PULLED OUT OF RETAINER AND DROPPED 1 BBL. CEMENT ON TOP OF RETAINER. RD HALLIBURTON. TOOH AND LD RETAINER STINGER.

#### 8/16/01

PU NEW 6-1/4" BLADE BIT W/ BIT SUB, AND TIH W/ 2-3/8" EUE J-55 TBG. TO TOP OF CEMENT @ 4320'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT TO TOP OF RETAINER @ 4357'. HAVING TROUBLE DRILLING CEMENT RETAINER. PUIC.

8/17/01

TOOH TO LOOK @ BIT. BIT WORE OUT. PU NEW 6-1/4" ROCK BIT AND TIH W/ 2-3/8" EUE J-55 TBG. TO RETAINER @ 4360'. PU 2.5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT RETAINER AND CEMENT TO 4410'. CIRCULATED HOLE CLEAN TO P.B.T.D.(4893'). PRESSURE TEST CASING TO 1000#, AND LOST 400# IN 1 MINUTE. TOOH AND LD BIT

## 8/20/01

TIH W/7 JTS. 2-3/8" TBG.(228'), 7" FULL BORE PACKER, AND 139 JTS. 2-3/8" TBG.(4432'). PRESSURE TEST LOWER SQUEEZE HOLES @ 4740' TO 1000# AND HELD GOOD. PRESSURE TEST UPPER SQUEEZE HOLES @ 4400' TO 1000# AND LOST 400# IN 1 MINUTE. RU HALLIBURTON. PUH TO 4427' AND SPOTTED 6 BBLS. CEMENT FROM 4427' TO 4250'. PUH TO 3996', AND REVERSE OUT W/ 25 BBLS. OF WATER. SET PACKER @ 3768' AND SQUEEZE 1 BBL. CEMENT INTO HOLE AND LEFT 1100# ON CEMENT. RD HALLIBURTON.

#### 8/21/01

NO PRESSURE ON WELL THIS AM. TOOH AND LD PACKER. PU 6-1/4" BIT W/ BIT \$UB, AND TIH W/ 2-3/8" EUE J-55 TBG. TO TOP OF CEMENT @ 4336'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT TO 4430'. CIRCULATED HOLE CLEAN TO P.B.T.D.(4893'). PRESSURE TEST CASING TO 1000# AND HELD. TOOH AND LD BIT. RU SCHLUMBERGER. RAN CBL FROM 4800' TO 3600'. CEMENT TOP @ 4350'. RIH AND PERFORATED 4-WAY SHOT @ 4325' USING 4" HCG GUN W/ 90 DEGREES PHASE. RD SCHLUMBERGER. PUMP INTO SQUEEZE HOLES @ 1.5 BPM @ 250# TO 350#.

#### 8/22/01

PU 7" CEMENT RETAINER AND TIH W/ 2-3/8" TBG. TO 4271' AND SET. RU HALLIBURTON. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. ESTABLISH RATE @ 3 BPM @ 1400#. PUMPED 20 BBSL. OF WATER AHEAD @ 1400# @ 3 BPM. PUMP 1000 SXS. CEMENT @ 1200# @ 3 BPM. LAST 20 SKS. CEMENT PUMP STARTED TO LOCK UP @ 1480# TO 1500# @ 1/2 BPM. PULLED OUT OF RETAINER AND DROPPED 1/2 BBL. CEMENT ON TOP OF RETAINER. RD HALLIBURTON. TOOH AND LD RETAINER STINGER.

# 8/23/01

RU SCHLUMBERGER. RAN CBL FROM 4250' TO 3250'. CEMENT TOP @ 4160'. RIH AND PERFORATED 4-WAY SHOT @ 4135' USING 4" HCG GUN W/ 90 DEGREES PHASE. RD SCHLUMBERGER. PUMP INTO SQUEEZE HOLES @ 1.5 BPM @ 400#. PU 7" CEMENT RETAINER AND TIH W/ 2-3/8" TBG. TO 4085' AND SET. RU HALLIBURTON. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. ESTABLISH RATE @ 3 BPM @ 600#. PUMPED 20 BBSL. OF WATER AHEAD @ 600# @ 3 BPM. PUMP 1000 SXS. CEMENT @ 600# @ 3 BPM. GAINED LIGHT CIRCULATION OUT OF BRADEN HEAD, AND FLOWED BACK 5 BBLS. OF WATER. PULLED OUT OF RETAINER AND DROPPED 1/2 BBL. CEMENT ON TOP OF RETAINER. RD HALLIBURTON. TOOH AND LD RETAINER STINGER.

#### 8/24/01

PU 6-1/4" BIT W/ BIT SUB, AND TIH W/ 2-3/8" EUE J-55 TBG. TO TOP OF CEMENT @ 4060'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT TO 4073'. CIRCULATED HOLE CLEAN. TOOH. RU SCHLUMBERGER. RAN CBL FROM 4073' TO 3000'. CEMENT TOP @ 3210'. RD SCHLUMBERGER. TIH W/ 6-1/4" BIT W/ BIT SUB AND 2-3/8" EUE J-55 TBG. TO CEMENT RETAINER @ 4273'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT TO TOP OF CEMENT RETAINER @ 4085'. PUIC.

RIH AND TAGGED CEMENT RETAINER @ 4085'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT RETAINER AND CEMENT TO 4145'. CIRCULATED HOLE CLEAN. PRESSURE TEST SQUEEZE HOLES @ 4135' TO 1000# AND HELD. TIH AND TAGGED CEMENT @ 4260'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT AND CEMENT RETAINER @ 4271' AND CEMENT TO 4280'. CIRCULATED HOLE CLEAN. PUIC.

#### 8/28/01

RIH AND TAGGED CEMENT @ 4280'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT TO 4340'. CIRCULATED HOLE CLEAN. PRESSURE TEST SQUEEZE HOLES @ 4325' TO 1000# AND HELD. TIH AND CIRCULATED HOLE CLEAN TO P.B.T.D.(4893').

## 8/29/01

RU SCHLUMBERGER. RAN CBL FROM 4893' TO 2100'. CEMENT TOP @ 2990'. PU 7" CIBP AND RIH W/ WIRELINE TO 3030' AND SET. PRESSURE TEST PLUG TO 1500#, AND HELD. RIH AND PERFORATED 4-WAY SHOT @ 2958' USING 4" HCG GUN W/ 90 DEGREES PHASE. RD SCHLUMBERGER. PUMP INTO SQUEEZE HOLES @ 1.5 BPM @ 400#. PU 7" CEMENT RETAINER AND TIH W/ 2-3/8" TBG. TO 2905', AND SET. RU HALLIBURTON. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. ESTABLISH RATE @ 3 BPM @ 600#. PUMPED 20 BBSL. OF WATER AHEAD @ 600# @ 3 BPM. PUMP 1000 SXS. CEMENT @ 550# @ 3 BPM. GAINED LIGHT CIRCULATION @ 65 SXS. OF CEMENT PUMPED AND LOST CIRCULATION AFTER 293 SXS. OF CEMENT PUMPED. NO CEMENT TO SURFACE. PULLED OUT OF RETAINER AND DROPPED 1/2 BBL. CEMENT ON TOP OF RETAINER. RD HALLIBURTON. TOOH AND LD RETAINER STINGER.

#### 8/30/01

RU SCHLUMBERGER. RAN CBL FROM P.B.T.D. (4893') TO 2100'. CEMENT TOP @ 2434'. RIH AND PERFORATED 4-WAY SHOT @ 2395' USING 4" HCG GUN W/ 90 DEGREES PHASE. RD SCHLUMBERGER. PUMP INTO SQUEEZE HOLES @ 2 BPM @ 200#. PU 7" CEMENT RETAINER AND TIH W/ 2-3/8" TBG. TO 2349' AND SET. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. PUIC.

## 8/31/01

RU HALLIBURTON. PRESSURE TEST CASING AND RETAINER TO 1500# AND HELD. ESTABLISH RATE @ 3 BPM @ 550#. PUMPED 20 BBSL. OF WATER AHEAD @ 550# @ 3 BPM. PUMP 1000 SXS. CEMENT @ 680# @ 3 BPM. GAINED LIGHT CIRCULATION @ 152 SXS. OF CEMENT PUMPED AND LOST CIRCULATION AFTER 191 SXS. OF CEMENT PUMPED. NO CEMENT TO SURFACE. PULLED OUT OF RETAINER AND DROPPED 1/2 BBL. CEMENT ON TOP OF RETAINER. RD HALLIBURTON. TOOH AND LD RETAINER STINGER. SION.

## 9/04/01

RU SCHLUMBERGER. RAN CBL FROM 2300' TO 1200'. CEMENT TOP @ 1446'. PU 6-1/4" BIT W/BIT SUB, AND TIH W/ 2-3/8" EUE J-55 TBG. TO TOP OF CEMENT @ 2320'. PU 2,5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CEMENT AND CEMENT RETAINER @ 2349' TO 2351', AND CEMENT FROM 2351' TO 2410'. FELL OUT OF CEMENT. CIRCULATED HOLE CLEAN. PRESSURE TEST SQUEEZE HOLES @ 2395' TO 1000# AND HELD. RIH AND TAGGED CEMENT @ 2890'. PUIC.

# 9/05/01

RIH AND TAGGED CEMENT @ 2890'. PU 2.5 POWER SWIVEL. BREAK CIRCULATION W/WATER AND DRILLED OUT CEMENT AND CEMENT RETAINER @ 2905 TO 2908', AND CEMENT FROM 2908' TO 3030'. FELL OUT OF CEMENT, AND PUSHED A PIECE OF RETAINER TO TOP OF CIBP @ 3030'. CIRCULATED HOLE CLEAN. PRESSURE TEST SQUEEZE HOLES @ 2958' TO 1000# AND HELD. PUIC.

# 9/06/01

RIH AND TAGGED CIBP @ 3030'. PU 2.5 POWER SWIVEL. BREAK CIRCULATION W/ WATER AND DRILLED OUT CIBP AND FELL TO P.B.T.D.(4693'). CIRCULATED HOLE CLEAN. PRESSURE TEST CASING TO 1000# AND HELD. TOOH AND LD 2-3/8" EUE J-55 TBG. W/ BIT SUB ON FLOAT. RU SCHLUMBERGER. RAN CBL FROM 4693' TO 1200'. CEMENT TOP @ 1446'. PERFORATE LOWER MESA VERDE W/ 2 SPF USING 3-1/8" PROSPECTOR CHARGE GUNS AS FOLLOWS: 4788'-4793', 4734'-4744', 4644'-4647', 4634'-4638',(22'). RD SCHLUMBERGER. ND BOP. NU WELLHEAD. WILL DO RIGLESS FRAC. RDMO.