

## Daily Operations Report

Well SUNDANCE FEDERAL 15

Objective Drill &amp; Complete Delaware Formation

Job Type D&amp;C

Field

AFE #: 742

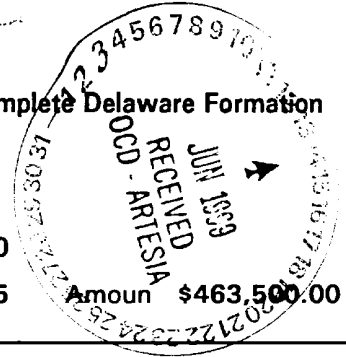
Count EDDY

WI 87.50

State NM

NRI 68.25

Distric West



Date	1/28/94	Daily Cost	\$9,590.00	Cost to Date	\$365,683
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TD = 660'. TEXAS PATTERN SHOE @ 660' & FLOAT COLLAR UP 1 JT. @ 619'. PICK UP 13 3/8", 54.5# PER FOOT, TOTAL OF 15 JTS. TAG @ 645', WASH TO TD. CIRC. 1 1/2 HRS. WAITING ON D.S. COMPUTER. RIG UP DOWELL - PUMP 30 BBLs. FRESH WATER, 322 SX. LEAD (113.5) BBL. CMT. 35/65 POZ/C + 6% D20 + 2% SI + 1/8# D29, 200 SX TAIL (47BBLs) CMT. C + 2% SI & DISPLACE. BUMP PLUG @ 10:00 A.M., BLEED OFF CHECK FLOW BACK. P.S.I. UP 500# & SHUT IN. W.O.C. 12 HRS. MAKE CUT-OFF, WELD ON 13 3/8 CSG. HEAD & NIPPLE UP B.O.P'S.

Date	1/29/94	Daily Cost	\$21,833.00	Cost to Date	\$365,683
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TD = 2400'. DEVIATION SURVEYS: 1135 @ 1 DEG., 1599 @ 1 1/4 DEG., 2075 @ 1 1/4 DEG. MUD WT. 10, VIS. 29, PH 10. MADE 1740' @ 75' PER HR.

Date	1/30/94	Daily Cost	\$8,863.00	Cost to Date	\$365,683
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TD = 3035'. DEVIATION SURVEYS 2561 @ 2 1/2 DEG., 2718 @ 2 3/4 DEG., 2841 @ 2 1/4 DEG. MUD WT. 10, VIS. 29, PH 10.5. MADE 635' @ 20 PER HR.

Date	1/31/94	Daily Cost	\$5,961.00	Cost to Date	\$365,683
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TD = 3501'. DEVIATION SURVEY 3059-1 DEG. MUD WT 10, VIS 29, pH 10.5. MADE 466' @ 25'/HR.

Date	2/1/94	Daily Cost	\$46,031.00	Cost to Date	\$365,683
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TD = 4130'. DEVIATION SURVEYS: 3525-1 DEG, 3801-4 1/4 DEG, 3958-2 1/4 DEG. MUD WT 10', VIS 29, pH 10.5. CASING SZ 8 5/8" - 2067' OF 32#, 2123' OF 24#. 8 CENTRALIZERS. NO TUBULATORS-SHOE & FLOAT COLLAR. MADE 629' @ 20' PER HR.

Date	2/2/94	Daily Cost	\$17,364.00	Cost to Date	\$365,683
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TD = 4145' MADE 15', DEVIATION SURVEYS: 4145' @ 2 1/2 DEG. MUD WT. 10.1, VIS. 29, PH 10.5. T.D. 11" HOLE @ 4145'. CIRC. BTMS UP. RAN FLUID CALIPER, AVERAGE HOLE SIZE 13 3/8" (2593 CU. FT) P.O.H. WITH D.P. & LAY DOWN D.C.'S & BIT. PICK UP 8 5/8" CSG. FROM BTM. TO TOP. SHOE, 1 JT., FLOAT COLLAR & 93 JTS. 2021' - 32# ON BTM., 2043 - 24# MIDDLE & 90" - 32# ON TOP. SHOE @ 4145' & COLLAR 4100'. RIG UP DOWELL PUMP 1220 SX. 35/65 POZ C + 6% D20 + 10% D44 + 1/4# D29 + .2% D46 LEAD CMT. & TAIL IN WITH 200 SX. C + 2% S-1. DISPLACE WITH FRESH WATER. CIRC. 260 SX LEAD CMT. TO SURFACE. DID NOT BUMP PLUG, DISPLACE TO SHOE, SHUT DOWN. BLEED P.S.I. OFF - NO FLOW BACK. PSI UP CSG. 500# & SHUT IN. RIG DOWN D.S. - W.O.C.

Date	2/3/94	Daily Cost	\$8,102.00	Cost to Date	\$365,683
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TD = 4725' DEVIATION SURVEYS: 4638" @ 1 DEG. MUD WT. 9.0 VIS 28 PH 10 MADE 580". DRLG. 60" PER HR. F/ W.O.C. A TOTAL OF 12 HRS., MAKE CUT-OFF & NIPPLE UP B SECT. & B.O.P'S. TEST BLIND RAMS. PICK UP BHA & T.I.H. WITH 7 7/8" BIT. DRLG. CMT. - 10 HRS. DRLG. FORMATION.

Date	2/4/94	Daily Cost	\$14,738.00	Cost to Date	\$365,683
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TD = 5925', MADE 1200' - DRLG. 25' PER HR. DEVIATION SURVEYS: 5138' @ 1/4 DEG., 5614 @ 1/2 DEG. MUD WT. 9.0, VIS. 29, PH. 10.

Date	2/5/94	Daily Cost	\$12,030.00	Cost to Date	\$365,683
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TD = 6700', MADE 775', DRLG. 30' PER HR. DEVIATION SURVEYS: 6086' @ 1/2 DEG, 6561' @ 1 DEG. MUD WT. 9.0, VIS. 30, PH 10, WATER LOSS 10.

Date	2/6/94	Daily Cost	\$7,492.00	Cost to Date	\$365,683
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TD = 7190', MADE 490', DRLG 25' PER HR. DEVIATION SURVEYS: 7067' @ 1 1/2 DEG. MUD WT. 9.0, VIS. 30, PH. 10, WATER LOSS 10. POH FOUND HOLE IN DRILL PIPE @ 6726', TRIP BACK IN HOLE & RESUME DRLG.

Date	2/7/94	Daily Cost	\$13,591.00	Cost to Date	\$365,683
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TD = 7850'. MADE 660' @ 19' PER HR. DEVIATION SURVEY 7478'-1 1/2 DEG. MUD WT 8.9, VIS 29, pH 10.5, WATER LOSS 10. UNLOADED 5 1/2" CSG.

## Daily Operations Report

Well SUNDANCE FEDERAL 15

Objective Drill & Complete Delaware Formation

Job Type D&C

Field

AFE #: 742

Count EDDY

WI 87.50

State NM

NRI 68.25 Amoun \$463,500.00

District West

Date 2/8/94 Daily Cost \$6,532.00 Cost to Date \$365,683

TD = 8136. MADE 286' @ 33' PER HR. DEVIATION SURVEY 7974'-1 3/4 DEG. MUD WT 8.9, VIS 29, pH 10, WATER LOSS 10. POH LOOKINE FOR HOLE IN DRILLING PIPE, FOUND 3 HOLES. CHANGED OUT BIT & TIH. RESUME DRLG.

Date 2/9/94 Daily Cost \$4,703.00 Cost to Date \$365,683

TD=8200' MADE 64' . DEVIATION SURVEYS 8200' @ 1 DEG. MUD WT. 8.9, VIS. 29, PH. 10, WATER LOSS 10, T.D. WELL 8:00 A.M. CIRC. BTMS UP. MAKE SHORT TRIP. CIRC. BTMS UP. P.O.H. RIG UP COMPUTER LOG TO RUN OPEN HOLE LOGS W/L TOTAL DEPTH 8196'. 1ST LOG ON BTM. 7:00 P.M. PRESENT OPERATION RUN OPEN HOLE LOGS.

Date 2/10/94 Daily Cost \$73,246.00 Cost to Date \$365,683

TD = 8200'. MUD WT 8.9, VIS 29, pH 10, WATER LOSS 10. RIG DN COMPUTALOG W/L, TIH W/BIT TO 8200'. CIRC BTMS UP. POH LAYING DN. RIG UP CSG CREW & PICKED UP 5 1/2" CSG. 1120' - 17# ON BTM, 6277'-15.5# MIDDLE, 803'-17# ON TOP. FLOAT SHOE DEPTH 8200', FLOAT COLLAR @ 8177' SHORT JT. 7955-74, DV TOOL @ 5502'. RIG UP DOWELL & PUMPED 1ST STAGE- 804 SX 50/50 POZ H + 5# D44 + 2.5# B28 + 1/4# D29 + .3% D60 + .2% D46. APPROX 40 BBLS BEFORE BUMPING PLUG. LOST CURC - BUMP PLUG, CHECKED FOR FLOW BACK (NO FLOW). DROP DV TOOL BUMP. OPEN DV TOOL. REGAINED CIRC WITHIN 5 BBLS. CIRC & WOC - 1ST STAGE. DID NOT CIRC CMT OFF DV TOOL.

Date 2/11/94 Daily Cost \$3,475.00 Cost to Date \$365,683

TD = 8200'. PUMP 2ND STAGE - 317 SX LEAD 35/65 POZ C + 6% D20 + 10% D44 + 1/4# D29 + .2% D46, TAIL W/100 SX C + .3% D60 + .2% D46. DISPLACE W/ FRESH WATER, NOTE LOST CIRC JUST BEFORE BUMPING PLUG. BUMP PLUG, CLOSED DV TOOL, CHECK FOR FLOW BACK (NO FLOW). ND BOP'S, SET SLIPS, MADE CUT OFF & LAND 8 5/8" X 5 1/2" FLANGE. NU & TESTED.

Date 2/12/94 Daily Cost \$24,150.00 Cost to Date \$365,683

CLEANED LOCATION & SET ANCHORS. MIRU PRIDE W/S, PICK UP 4 3/4" BIT & TIH, TAG CMT 5475'. DRILL CMT & DRILLED OUT. DV TOOL @ 5502'. TEST 1000#. FINISH TIH, TAG CMT 8150', DRILL CMT DN TO FLOAT COLLAR @ 8177'. TEST 1000#. CIRC HOLE W/2% KCL. PULLED OUT OF HOLE W/ 20 JTS.

Date 2/13/94 Daily Cost \$0.00 Cost to Date \$365,683

SD WAITING ON PERFS

Date 2/14/94 Daily Cost \$7,005.00 Cost to Date \$365,683

OPEN WELL - FINISHED POH W/BIT. LAYDOWN DC'S. RIG UP COMPUTALOG - RUN SBL MINIMUM FOOTAGE & CBL TO TOP OF CMT @ 4250'. DV TOOL COVERED. POH - PICK UP 4" SELECT FIRE PERF GUNS & TIH. CORRELATED W/HIGH RES PASS & PERFORATED 1 SPF. 7896, 7899, 7917, 7922, 7923, 7925, 7928, 7931, 7932, 7934, 7937, 7942, 8015, 8022, 8027, 8029, 8048, (17 HOLES). POH & RIG DN COMPUTALOG. PICKED UP 6 JTS TAIL PIPE & 5 1/2". MODEL R PKR & TIH TO APPROX 7400'. SDON

Date 2/15/94 Daily Cost \$6,538.00 Cost to Date \$365,683

NO PSI - OPEN WELL, FINISH T.I.H WITH PKR. EOT @ 8048' & PKR. @ 7848'. RIG UP B.J. SERVICES, SPOT 5 BBLS. ACID ACROSS PERFS. PICK UP WITH PKR. TO 7620' & EOT @ 7818'. RIG UP & REVERSE 3 BBLS. SET PKR. @ 7620' WITH 233 JTS. ABOVE PKR. PSI BACKSIDE 500#. RIG UP ON TBG. TEST LINES. BREAK DOWN PERFS. @ 1320#. PUMP 8 BBLS. 5.4 BPM @ 1400 #. SHUT DOWN ISIP 500# IN 1 MIN. 330#. START ACID PUMPING 5 BPM @ 1130#. DROPPING 4 BALL SEALERS EVERY 4 BBLS. ACID. DISPLACE WITH 2% KCL. ACID ON FORMATION 5.0 BPM @ 1130#. BALL ACTION FROM 1130# TO 2610#. BALL OUT 4000# WITH 27 BALL SEALERS. SHUT DOWN, SURGE BALLS OFF. FLUSH TO BTM PERF. 5.2 BPM @ 1170#. ISIP 400#, 5 MIN. 305#, 10 MIN. 300#, 15 MIN. 290#. RIG DOWN B.J. SERVICES. RIG UP TO SWAB. BEGINNING FLUID @ SURFACE. SWAB BACK 159 BBLS. H2O & 20 BBLS OIL. ENDING FLUID LEVEL 4000' FROM SURGACE. SDON

Date 2/16/94 Daily Cost \$63,419.00 Cost to Date \$365,683

600# TBG PSI, NO FLOW - FLUID LEVEL 800' F/SURFACE. 1 RUN 40% OIL RELEASED PKR & POH. ND BOP & NU FRAC FLANGE. MIRU BJ SERVICES, TEST LINES & HAD SAFTY MEETING. OPEN WELL & STARTED FRAC PUMP AS PER FRAC RECOMMENDATIONS. PUMPED 5000 GALS PRE-PAD - 20 BPM @ 836#, 25,000 GALS PAD - 20 BPM @ 905#, 4000 GALS PAD-CARRYING 1.3 TO 3.3#/GAL. OTTAWA SAND 20 BPM @ 641#. 5000GALS - CARRYING 3.3 TO 5.3#/GAL. OTTAWA SAND 20 BPM @ 196#. 10,000 GALS CARRYING 5.3 TO 7.3#/GAL. OTTAWA SAND 20 BPM @ 0#. 6000 GALS CARRYING 7.3 TO 7.9#/GAL. OTTAWA SAND 20 BPM @ 0#. 3000 GALS CARRYING 7.9 TO 8.0#/GAL. RESIN COATED SAND 20 BPM @ 0#. 7000 GALS CARRYING 8.0# GAL. RESIN COATED SAND 20 BPM @ 980#. FLUSH W/ 184 BBLS 2% KCL. ISIP 680# - STARTED FORCED CLOSURE - CLOSED @ 420# IN 10 MIN. MAX PSI 980#, AVG RATE 19.8 BPM, AVG PSI 0. SDON.

## Daily Operations Report

Well **SUNDANCE FEDERAL 15**

Objective Drill & Complete Delaware Formation

Job Type D&C

Field

AFE #: 742

Count **EDDY**

WI **87.50**

State **NM**

NRI **68.25** Amount **\$463,500.00**

District **West**

Date **2/17/94** Daily Cost **\$9,155.00** Cost to Date **\$365,683**

NO CSG PSI - OPEN WELL. NU BOP. PICK UP NOTCH COLLAR & TIH TAG SAND @ 7970'. PICK UP TO 7950'. RIG UP BJ SERVICES NITROGEN, REVERSE UNIT & SWIVEL. PUMPED @ 1/2 BPM H2O & 800 CU. FT. PER MIN. BROKE CIRC & WASHED SAND F/7980' TO 8164'. CIRC BTMS UP. SD NITROGEN & PUMPED 60 BBLs H2O. POH W/EOT 7657'. RIG UP HALLIBURTON LOGGING SERVICE TO RUN AFTER FRAC SURVEY. RAN SURVEY F/8152' TO 7700'. RIG DN HLS. SDON

Date **2/18/94** Daily Cost **\$1,865.00** Cost to Date **\$365,683**

FINISHED POH W/NOTCHED COLLAR PICKED UP BULL PLUG, 2 JTS, PERF SUB, SEAT NIPPLE, 12 JTS. TAC & TIH TAG PBTD @ 8152'. PICKED UP & ND BOP. NU WELLHEAD. SET TAC & LAND FLANGE W/249 JTS TOTAL IN HOLE. RIG UP TO SWAB, BEGINNING FLUID 1000' F/SURFACE. MADE 8 RUNS, FLUID LEVEL 1300' F/SURFACE. WELL STARTED FLOWING, CUTTING 10% OIL. FLOWING APPROX. 40 BBLs PER HR @ 80# TBG PSI. LEFT TO FRAC TANK OVERNIGHT.

Date **2/19/94** Daily Cost  Cost to Date **\$365,683**

## Daily Operations Report

Well **SUNDANCE FEDERAL 15**

Objective **Install Artificial Lift**

Field

Job Type **Artificial Lift**

Count **EDDY**

AFE #: **743**

State **NM**

WI **87.50**

District **West**

NRI **68.25** Amount **\$0.00**

Date **2/19/94** Daily Cost  Cost to Date **\$82,380**

FLOWED TO FRC TANK - 167 OIL & 360 WATER - 140 # TBG PSI.

Date **2/20/94** Daily Cost  Cost to Date **\$82,380**

FLOWED TO FRAC TANK - 43 OIL & 120 WATER. 100# TBG PSI.

Date **2/21/94** Daily Cost **\$81,060.00** Cost to Date **\$82,380**

SI FOR SPI BUILD UP. WELL DEAD. TBG PSI 249# & CSG 220#.

Date **2/22/94** Daily Cost **\$1,320.00** Cost to Date **\$82,380**

MIRU WSU. PICKED UP 1 1/2" X 2 1/2" X 25' TOP HOLD DN PUMP W/1' X 1" LIFT SUB. PICKED UP RODS & TIH. SPACED OUT, HUNG ON & NU WELL HEAD. ROD COUNT F/BTM TO TOP. 1 - 1 1/2 X 2 1/2 X 25' TOP HOLD DN PUMP, W/1' LIFT SUB & 6' GAS ANCHOR. 110 - 3/4" CLASS D RODS. 110 - 7/8" CLAD D RODS. 97 - 1" CLASS D RODS. 1 - 1" X 8' SUB. 1 - 1" X 6' SUB. 1 - 1" X 4' SUB. 1 - 1" X 2' SUB. 1 - 1 1/2" X 26' POLISH ROD W/1 1/2" X 1 3/4" X 16' LINER. STARTED GAS ENGINE & TURNED WELL TO PRODUCING. DROP FROM REPORT- WAITING FOR TEST.

Date **2/25/94** Daily Cost  Cost to Date **\$82,380**

PICK UP REPORT - TEST - 152 OIL 212 MCF

Date **2/26/94** Daily Cost  Cost to Date **\$82,380**

TEST 136 OIL 68 MCF

Date **2/27/94** Daily Cost  Cost to Date **\$82,380**

TEST 114 OIL 132 MCF

Date **2/28/94** Daily Cost  Cost to Date **\$82,380**

TEST (NOT A 24 HR TEST) 80 OIL 108 MCF. FRW

Date **3/1/94** Daily Cost  Cost to Date **\$82,380**

TEST - 194 OIL, 82 H2O, 136 MCF

Date **3/2/94** Daily Cost  Cost to Date **\$82,380**

TEST - 134 OIL, 79 H2O, 105 MCF. FRW