

Daily Operations Report

Well: **SUNDANCE FEDERAL 22** Objective: **Drill & Complete**
Field: **Sanddunes, West** Job Type: **D&C**
County: **Eddy** AFE #: **1410**
State: **NM** WI: **47.57%** AFE Amount: **\$488,800.00**
District: **West** NRI: **39.82%** Cost To Date: **\$541,842.40**

Date **7/10/97** Daily Cost **\$25,751.80**

DRILLING SURFACE. MADE 332'.

Date **7/11/97** Daily Cost **\$26,672.00**

TD = 650'. MADE 318'. DEVIATION SURVEY: 500' - 1 DEGREE. MUD WT 9.6, VIS 29. DRILLING SURFACE & CEMENTING.

Date **7/12/97** Daily Cost **\$3,966.00**

TD = 820', MADE 170'. DEVIATION SURVEY 964' - 1 DEGREE. MUD WT 10.1, VIS 29, PH 10. DRILLING INTERMEDIATE.

Date **7/13/97** Daily Cost **\$20,114.00**

TD = 2085', MADE 1265'. DEVIATION SURVEY: 1444' - 3/4 DEGREE, 1942' - 3/4 DEGREE. MUD WT 10, VIS 29, PH 10. DRILLING INTERMEDIATE.

Date **7/14/97** Daily Cost **\$13,165.00**

TD = 2913', MADE 828'. DEVIATION SURVEY 2413' - 1 1/2 DEGREES. MUD WT 10.1, VIS 29, PH 10. DRILLING INTERMEDIATE

Date **7/15/97** Daily Cost **\$8,331.60**

CURRENT 3437, DS 2913-14 DEGREES - 3284 - 1 DEGREE; MUD WT 10.1, VIS 29, PH 10

Date **7/16/97** Daily Cost **\$58,507.00**

CURRENT 4125, DS 3854 - 2 DEGREES, MUD WT 10, VIS 27, PH 10, DRILLING INTERMEDIATE

Date **7/17/97** Daily Cost **\$30,744.00**

ds 4200 - 1 1/2 degrees, MUD WT 10.1, VIS 29, PH 10, FINISH DRILLING INTERMEDIATE AND CEMENTING. CONNECT HAND 1335 SHS 35-65 RO2-C 10" SK SULT 688 ALL 1/4" COST FT. TAIL 200 SKS C AND 2 DEGREES CLAMP ON EXORIDE

Date **7/17/97** Daily Cost **\$30,744.00**

DS 4200 - 1 1/2 DEGREES; MUD WT 10.1; VIS 29; PH 10; FINISH DRILLING INTERMEDIATE AND CEMENTING, CEMENT HARD 1335 SKS 35 - 65 RO 2-C 10" SK SOLT 6% BELL 1/4" CLUB A TAIL 200 SKS C AND 2% COLOSUM CULLORIDE

Date **7/18/97** Daily Cost **\$10,669.00**

CTD 4495; MUD WT 8.4; VIS 29; PH 10; WCITING ON CEMENT

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Date **7/19/97** Daily Cost **\$18,842.00**

CTD 5680; DS 4668 - 3/4 5747 - 1 DEGREE 5616 - 1 DEGREE; MUD WT 8.4; VIS 29; PH 10; DRILLING 7 7/8 OPEN HOLE

Date **7/20/97** Daily Cost **\$17,679.00**

CTD 6653; DS 6088 - 1 DEGREE 6559 - 3/4 DEGREES; PH 10; DRILLING 7 - 7/8 OPEN 406

Date **7/21/97** Daily Cost **\$13,137.00**

CURRENT TD 7450 - 1/2 DGREES; DS 7028; MUD WT 8.5; VIS 29; PH 10; DRILLING 7 - 7/8 OPEN HOLE

Date **7/22/97** Daily Cost **\$1,090.00**

CURRENT TD 7462; MUD WT 8.5; VIS 29; PH 10; WATER LOSS 20 CC; DRILL 7- 7/8 OPEN HOLE AND FISH PELLED DRILL ONCE GO IN HOLE WITH 5" OVER SHOT COULD BUT CATCH FISH POH AND PAVN IN HOLE WITH ARITHE CORAPPLE CATCH FISH AND POH

Date **7/23/97** Daily Cost **\$9,635.00**

CURRENT 8068; DS 7658- 1/2 DEGREES; MUD WT 8.6; VIS 29; PH 10; WATER LOSS 20 CC; DRILLING 7 7/8 OPEN HOLE

Date **7/24/97** Daily Cost **\$13,894.00**

CURRENT 8250; DS 8095 - 1 DEGREE; MUD WT 9; VIS 29; PH 10; WATER LOSS 16 CC; DRILLING 7 7/8 OPEN HOLE AND LOGGING

Date **7/25/97** Daily Cost **\$71,345.00**

CURRENT 8250; DS 8250 1/4; MUD WT 9; VIS 29; PH 10; WATER LOSS 16 CC; LAYING DOWN OF RUN CASING AND CEMENTING CASING AT 82 FT 4- STAGE COLLEN AT 6574; 1ST STAGE 310 SKS SUPER C MODIFED; 2ND STAGE 345SKS 35/65 C POS ; 100 SKS C NEAT

Date **7/25/97** Daily Cost **\$5,675.00**

CUT OFF CASING AND MOVE

Date **7/28/97** Daily Cost **\$30,137.00**

RIH WITH 4 DRILL CALLERS AND 4 3/4 BIT AND DRILL STA ON CALLER TO CLEAN OUT TO TD

Date **7/29/97** Daily Cost **\$2,006.00**

POH W/ 2 7/8 TUGING AND RAN BAND LOG

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Date **7/30/97** Daily Cost **\$9,526.00**

RIH W/ PERFORATING GUN. PEREARATE AT 7930, 31, 35, 36, 39, 44, 45, 56, 8020, 25, 22, 26, 34, 36, 43, 44, 47, 56, 68, 70, 71, 76, 24 SHOTS. POH AND RIH W/ BAKERS MODLE R PACKERS. 2 7/8 TUBING AND SET PACKER AT 7866. ACIDIZE W/ 2000 GAB 15% ACID NEFE. BREAK FORMATION AT 2000 PST AND PUMP IN 4 BPM. START ACID AND BALLS PSI BREAK BACK TO 900 PSI. BAK ACTION FROM 900 PSI TO 2700 BALL OUT SURGE BALL AND FINISH FLUSH AT 4 BPM 850 PSI ISIP 385. 5 MIN 353, 10 MIN 342 AND 15 MIN 326. RIG UP SWAB AND FLEW WELL BACK APP 20 BBLS AND MAKE 14 SWAB RUNS AND RECOVER APP 70 BBLS AND SDON

Date **7/31/97** Daily Cost **\$1,569.00**

CHECK WELL PIS 650 LB, OPEN TO PIT FLOW APP 15 MIN. UNSET PACKER POH AND LAY DOWN MOLD R ON PACKER. RIH W/ SENATING NIPPLE AND 2 7/8 TUBING TO 78.66 AND SWAB DOWN TO 2800'. GOOD GAS FLOW. POH W/ 2 7/8 TUBING NIPPLE DOWN BOP AND NIPPLE UP FRAC VALVE AND SDON

Date **8/1/97** Daily Cost **\$71,395.00**

FRAC DOWN 5 1/2 CASING W/ 78000 GM. DELTA FRAC AND 278348 LBS 16/30 SAND IN 7 STAGES. 25000 PAD 5000 2# 12000 4# 15000 6# 6000 GAL 8# 16/30 WGITE SAND ABD 9000 GAL 8# SUPER LC 16/30 SAND AND FLUSH TO TOP PERF MAX RATE 32.8 BPM MAX PSI 1643 ISIP 550, 5 MIN 415, 10 MIN 324, 15 MIN 360

Date **8/2/97** Daily Cost **\$5,319.00**

CHECK PAI 290# START FLOW ON 10/64 CHOKE. APP 20 GPM WELL FLOW 20 MIN AND DIED. STANT IN HOLE W/ 2 7/8 TUBING AND NOTCH COLLARS. TAG SAND 7946 AND STANT WASH OUT. WASH OUT APP 75-100 SKS SAND 16/30 RESUN WASH OUT TO 8220 AND PULL 50 STAND. SDON

Date **8/3/97** Daily Cost **\$785.00**

CHECK PAI 90# STANT FLOW BANK 20-25 GPM RETENSE RIG CREW AND LEARN FLOWING

Date **8/4/97** Daily Cost **\$1,830.00**

DRILLED ON LOCATION. WELL DEAD, HAD FLAWED BACK APP 150 BBLS. RIH W/ 50 STANDS 2 7/8 TUBING AND TAG AT 8210 POH AND RIH W/ 5 1/2 BAK MODLE R PACKER AND SET AT 7867 W/ 15 POINTS COMPRESSION NIPPLE DOWN BOP AND NIPPLE UP WELL HAND AND START TO W/ SWAB MAKE 31 SWAB RUNS AND RECOVER APP 110 BBLS AND SDON

Date **8/5/97** Daily Cost **\$1,831.00**

CHECK PSI 50#. FLOW TO PIT GALS 2 MIN. START SWAB. SWAB 380 BBLS FLUID LEVEL. START AT 400'. SWAB DOCON TO 900' - 1460'. SWAB 77 RUNS & LAST 43 RUNS 3 - 5% OIL CUT - FAIR GAS.

Date **8/6/97** Daily Cost **\$5,167.00**

CHECK PSI 325#. FLOWED GAS 17 MIN & FLOWED OIL 12 MIN. START SWAB. SWABBED APP. 50 BBLS. WELL STARTED TO FLOW. SWABBED & FLOWED TOTAL 170 BBLS. LEFT WELL FLOWING ON 23/64 CHOKE W/200# PSI.

Date **8/7/97** Daily Cost **\$4,739.00**

CHECK WELL. DEAD. FLOWED APP 45 BBLS OVERNIGHT. CHOKE SANDED OFF. START SWAB - MAKE 6 RUNS. WELL STARTED FLOWING. SET ON 25/64 BPH. FLOWED 240 - 280 PSI FOR 2 HOURS. CHOKE BACK TO 20/64 CHOKE 12 BPH 280 - 340 PSI. HOOK UP TO TESTER & LEFT FLOWING.

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Date 8/8/97 Daily Cost \$3,794.00

CHECK PSI - 300#. WELL FLOWING. TEST WELL: 17 HOURS TBG PSI: 320, CHOKE: 20/64, OIL: 71-OIL, MCF: 110, WATER: 157.
RELEASE RIG.

Date 8/9/97 Daily Cost

WELL TEST: TBG PSI:310. CHOKE: 20/64, OIL: 143, MCF: 135, WATER: 173

Date 8/10/97 Daily Cost

WELL TEST: TBG PSI:310. CHOKE: 20/64, OIL: 150, MCF: 176, WATER: 143

Date 8/11/97 Daily Cost

WELL TEST: TBG PSI:310. CHOKE: 20/64, OIL: 151 MCF: 182, WATER: 137

Date 8/12/97 Daily Cost

CHOKE 20/64; OIL 149; MCF 178; H2O 132

Date 8/13/97 Daily Cost

CHOKE 20/64; OIL 167; MCF 181; H2O 131

Date 8/14/97 Daily Cost

CHOKE 20/64; OIL 149; MCF 168; H2O 127

Date 8/15/97 Daily Cost

CHOKE 20/64; OIL 143; MCF 198; WATER 120

Date 8/16/97 Daily Cost

CHOKE 20/64; OIL 94; MCF 192; H2O 88

Date 8/17/97 Daily Cost

CHOKE 20/64; OIL 141; MCF 130; H2O 145

Date 8/18/97 Daily Cost

CHOKE 20/64; OIL 49; MCF 211; H2O 60

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CHOKE 20/64; OIL 133; MCF 120; H2O 110

Date **8/20/97** Daily Cost

CHOKE 20/64; OIL 34; MCF 106; H2O 13

Date **8/21/97** Daily Cost

CHOKE 12/64; OIL 151; MCF 129; WATER 101

Date **8/25/97** Daily Cost

CHOKE 12/64; OIL 44; MCF 126; WATER 32

Date **9/3/97** Daily Cost **\$11,619.00**

POH W/ MODEL R PACKER & 2 7/8" TUBING RIH W/ MUD ANCHOR AT 7861' PERF SUB AT 7831' MECH & HOLD DOWN AT 7827' & ANCHOR AT 7554 SET ANCHOR & PULL 14 POINTS NIPPLE DOWN BOP & NIPPLE UP WELL HEAD & RIH W/ 1 1/2 X 24' PUMP & START 3/4 RODS & SDON

Date **9/4/97** Daily Cost **\$12,164.00**

FINISH RUNNING IN HOLE W/ RODS. RAN 164 3/4 90-7/8 584 AND HUNG WELL ON