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Form 3160-5  
 (June 1990)

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

FORM APPROVED  
 Budget Bureau No. 1004-0135  
 Expires: March 31, 1993

5. Lease Designation and Serial No.  
 NMO31963

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 Sundance Federal #11

9. API Well No.  
 30-015-27578

10. Field and Pool, or Exploratory Area  
 Sand Dunes, West Delaware

11. County or Parish, State  
 Eddy, New Mexico

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
 Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 Merit Energy Company

3. Address and Telephone No.  
 12222 Merit Drive, Suite 1500 Dallas, Texas 75251

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 Unit Letter I  
 1980' FSL/660' FEL  
 Sec5, T24S, R31E

*APR 6 1994*

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Drilling</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

See attached reports

ACCEPTED FOR RECORD  
 4 1994  
 SJS

RECEIVED  
 MAR 21 11 34 AM '94

14. I hereby certify that the foregoing is true and correct

Signed *Sherry J. Caruth* Title Regulatory Manager Date 2/1/94

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**MERIT ENERGY COMPANY  
DAILY WORKOVER REPORT**

**OPERATOR:** MERIT ENERGY COMPANY  
**WELL:** SUNDANCE FED #11  
**FIELD:** SAND DUNES, W.  
**COUNTY/ST:** EDDY, NEW MEXICO  
**W/NI:** 47.574/39.826  
**AFE NO.:** 470  
**AFE AMOUNT:** \$ 484,800  
**OBJECTIVE :** DRILL & COMPLETE TO THE LOWER BRUSHY(DELAWARE)

**1/5/94:** BUILT LOCATION. DRILLING PIT. LINED DRILLING PIT. LAID H2O SUPPLY LINE. HAULED IN FRESH H2O TRANSFER PUMP FROM SUNDANCE A H2O TANKS. DRILLED MOUSE & RAT HOLE. SET 20" CONDUCTOR @ 40'. SD WAITING ON DRILLING RIG.

CONSTRUCTION: \$15,000.00	H2O, SL, & PUMP: \$5175.00
	CONDUCTOR: \$800.00
DAILY TOTAL \$20,975	ACCUM TOTAL \$20,975

**1/6/94:** SD WAITING ON DRILLING RIG. DROP FROM REPORT.

**1/12/94:** TD = 400 '. MOVE IN RIG UP NABORS RIG # 467. SPUD WELL AT 10:00 P.M. DEVIATION SURVEY 340' OF 3/4 DEGREE.

DRILLING: \$4480.00	CASING: \$ 11,912.00
WELL HEAD: \$ 3160.00	OTHER: \$ 3423.00
DAILY TOTAL \$22,975	ACCUM TOTAL \$45,722

**1/13/94:** TD = 674'. CIRCULATED HOLE, POOH & LAY DN COLLARS. PICKUP 13 3/8" CASING RIH W/TX PATTERN SHOE & FLOAT COLLAR UP 1-JOINT, RU DS PUMP 20 BBLs H2O THEN 109 BBLs (323 SXS). 35/65 POZ/C + 6% D-20 + D-29 CEMENT. TAILED W/47 BBLs (201 SACKS) CLASS C + 2% S-1 CEMENT, DISPLACE CMT W/98 BBLs FRESH H2O. BUMP PLUG, HELD, PSI UP TO 500 AND SD. RIG DN DS, WOC, CIRCULATED TO PIT 70 SX.

DRILLING: \$3069.00	CEMENT: \$4605.00
	MISC: \$860.00
DAILY TOTAL \$8524	ACCUM TOTAL \$54,246

**1/14/94:** TD = 1400'. DEVIATION SURVEYS: 1017'-1 3/4 DEG, 1300'-1 DEG. MUD WT 10, VIS 29, pH 10. WOC, WELD ON CASING HEAD, NUBOP, DRILLED OUT FROM UNDER SURFACE CSG. DRILLING @ 80' PER HR. MADE 726'. DEVIATION SURVEY 1017'-1 3/4, 1300'-1 DEG.

DRILLING: \$8131.00	MISC: \$787.00
DAILY TOTAL \$8918	ACCUM TOTAL \$63,164

**1/15/94:** TD = 2822'. DEVIATION SURVEY 1772'-1/2 DEG, 2246'-1 DEG, 2688'-2 DEG. MUD WT 10, VIS 29, pH 10. DRILLING @ 65' PER HR. MADE 1422'.

DRILLING: \$15,927.00	DRILLING MUD: \$630.00
	MISC: \$675.00
DAILY TOTAL \$17,232	ACCUM TOTAL \$80,396

**1/16/94:** TD =3300'. DEVIATION SURVEY 2941'-1 DEG. MUD WT 10, VIS 29, pH 10. DRILLING @ 21' PER HR. MADE 478'.

DRILLING: \$5354.00	DRILLING MUD: \$620.00
	MISC: \$675.00
DAILY TOTAL \$6,649	ACCUM TOTAL \$87,045

**1/17/94:** TD = 4000'. DEVIATION SURVEYS 3414'-2 DEG, 3547'-1 1/2 DEG, 3825'-2 DEG. MUD WT 10, VIS 29, pH 10. DRILLING @31' PER HR. MADE 700'. CASING SZ 8 5/8". TALLY 2205' - 32#. 1982' - 24#.

DRILLING: \$7840.00	CASING: \$35,511.00
	MISC: \$2065.00
DAILY TOTAL \$45,416	ACCUM TOTAL \$132,461

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1/18/94: TD = 4093'. TD 11" HOLE TO 4093'. DEVIATION SURVEY 4093'-2 3/4 DEG. MUD WT 10, VIS 29, pH 10. CIRC BTMS UP & POH W/DRILL PIPE & LAY DN DC'S. RU CSG CREW & TIH W/SHOE. 1 JT CSG, FLOAT COLLAR & 91 JTS 8 5/8 CSG. WASH LAST JT DN TO TD OF 4093'. RIG UP DS, CIRC CSG CAPACITY & STARTED CMT. PUMPED 1007 SX 35/65 POZ/C-6% D20-10% D44-1/4# D29-.2% D46 & TAIL W/200 SX. CLASS C 2% S-1. DISPLACE W/253 BBLs FW. CIRC TO SURFACE 240 SX OF LEAD CMT. BUMP PLUG, PSI 500# OVER DIFF PSI. BLED OFF-NO FLOW BACK. PSI UP 500#. SD. RIG DN. DS & ND BOP'S. SET SLIPS O 8 5/8" CSG. WOC. CASING HEAD & WELLHEAD EQUIPMENT SZ 13 3/8"X8 5/8" CB SECTION. 8 CENTRALIZES.

DRILLING: \$1042.00	CASING: \$2560.00
CEMENT: \$10,680.00	MISC: \$4237.00
DAILY TOTAL \$18,519	ACCUM TOTAL \$150,980

1/19/94: TD = 4500'. DEVIATION SURVEY 4380'-3/4 DEG. MUD WT 8.8, VIS 29, pH 10. WOC TOTAL OF 12 HRS. MAKE CUT-OFF, PICK UP B SECTION & NU. TEST HEAD 1500#. NU BOP'S & TEST 1000". PICK UP 7 7/8" BIT, DC'S & TIH. DRILL CMT. CIRC UNTIL A TOTAL OF 24 HRS HAD PASSED SINCE BUMPING PLUG ON CMT JOB. DRILL OUT SHOE. 8 HRS DRLG FORMATION. MADE 407' @ 51' PER HR. CASING HEAD INSPECTION SZ 8 5/8" TEST 1500#.

DRILLING: \$4559.00	DRILLING MUD: \$307.00
	MISC: \$2060.00
DAILY TOTAL \$6926	ACCUM TOTAL \$157,906

1/20/94: TD = 5750'. DEVIATION SURVEYS 4852'-1 DEG, 5322'-3/4 DEG. MUD WT 8.7, VIS 29, PH 10. MADE 1250' @ 54' PER HR.

DRILLING: \$14,000.00	MISC: \$1404.00
DAILY TOTAL \$15,404	ACCUM TOTAL \$173,310

1/21/94: TD = 6693'. DEVIATION SURVEY 5786-3/4 DEG, 6249-1/2 DEG. MUD WT 9.2, VIS 30, PH 10, WATER LOSS. MADE 943' @ 26' PER HR. SHOW 6358-82(24') 60% YELLOW FLUORESCENT, TRACE OF STAIN, 90 TO 98 UNITS OF GAS. APPROX. 20% POROSITY.

DRILLING: \$10,562.00	DRILLING MUD: \$1825.00
	MISC: \$1125.00
DAILY TOTAL \$13,512	ACCUM TOTAL \$186,822

1/22/94: TD = 7374'. DEVIATION SURVEY 6714-1 1/4 DEG, 7182-1 1/2 DEG. MUD WT 8.9, VIS 30, PH 10, WATER LOSS 15. MADE 681' @ 26' PER HR.

DRILLING: \$7627.00	DRILLING MUD: \$1170.00
	MISC: \$1722.00
DAILY TOTAL \$10,529	ACCUM TOTAL \$197,351

1/23/94: TD = 7993'. DEVIATION SURVEY 7645-1 1/4 DEG. MUD WT 9, VIS 30, PH 10, WATER LOSS 10. MADE 619' @ 24' PER HR.

DRILLING: \$6933.00	DRILLING MUD: \$926.00
	MISC: \$2029.00
DAILY TOTAL \$9,888	ACCUM TOTAL \$207,239

1/24/94: TD = 8144'. MADE 151' WHEN BIT GAVE OUT. TRIP & REPLACED BIT. CALLED TOP OF BONE SPRINGS @ 8085' WILL TD WELL @ 8170'. SURVEYS 1 1/4 DEG @ 8144'. PRESENT OPERATIONS TRIPPING IN HOLE SHOWS 7806 TO 7826, 7872 TO 7884, 7902 TO 7908, 7910 TO 7920'.

DRILLING: \$1692.00	DRILLING MUD: \$1035.00
	MISC: \$825.00
DAILY TOTAL \$3552	ACCUM TOTAL \$210,791

1/25/94: TD = 8170'. MUD WT 8.9 VIS 30, PH 10, WATER LOSS 10. FINISH TIH W/BIT, DRILL TO TD, CIRC 2 HRS. POH. RIG UP COMPUTER-LOG & RUN OPEN HOLE LOGS. TIH W/BIT. FIRST LOG ON BTM @ 7:30 PM. STARTED DAY WORK. CSG SZ 5 1/2", TALLY 6296'-15.5 & 1900' -17.0. CENTRALIZERS 20, TUBULATORS 15.

DRILLING: \$292.00	CASING: \$40,160.00
DAY WORK: \$2700.00	MISC: \$6430.00
DAILY TOTAL \$49,612	ACCUM TOTAL \$260,403

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1/26/94: TD = 8170. RIH W/DRILL PIPE. CIRC 1 1/2 HRS @ BTM OF HOLE. POOH W/DRILL PIPE LAYING DN, PICKED UP 5 1/2 CSG. RIH, RUDS STARTED 1ST STAGE CEMENT. PUMPED 100 BBLs FRESH H2O, 20 BBLs CW7 ADDITIVE, 5 BBLs 15% D-75 ZONE LOCK, 794 SX (185 BBLs) 50/50 POZ H W/5# D44, 2.5# SX B-28, 1/4# SX D-29, .3% D60 + .2% D46. LIFTING PSI 1700# DROP PLUG & SET W/2200#. HELD. DROPPED DV BOMB, OPENED DV TOOL W/850 PSI, CIRC 5 HRS. STARTED 2ND STAGE CMT.

DAY WORK: \$5000.00	LOGGING: \$14,500.00
	MISC: \$1722.00
DAILY TOTAL \$21,222	ACCUM TOTAL \$281,625

1/27/94: TD = 8170'. FINISH PUMPING 2ND STAGE CMT + LEAD 292 SX 35/65 pozC W/6% D20, 10% D44, 1/4# SX D-29, .2% D46 TAIL 100 SX C W/.3% D-60 + .2% D-46. PLUG PUMP, HELD, RD DS, CUT OFF EXCESS CASING, SET SLIPS NU WELL HEAD, 8 5/8 TO 5 1/2 TO 2 7/8. MOVE OFF DRILLING RIG. CLEAN LOCATION SET ANCHORS, FILL CELLAR W/GRAVEL, SET TEST TANK, MOVE IN COMPLETION EQUIPMENT. COLLAR 8150', DV TOOL 5468'.

DAY WORK: \$4500.00	CEMENT: \$16,545.00
	MISC: \$5710.00
DAILY TOTAL \$26,755	ACCUM TOTAL \$308,380

1/28/94: TD = 8161'. MIRU PRIDE W/S -PICK UP BIT & DC'S & TIH PICKING UP TBG. OFF RACK. TAG CEMENT 5464'. DRILL CMT & DV TOOL @ 5469'. TEST 1000#. RESUME TIH TAG CMT TO FLOAT COLLAR PBDT 8155'. CIRC HOLE CAPACITY W/2% KCL. 5 1/2"-17# ON BTM 1131'. 5 1/2"-15.5# MIDDLE 6292'. 5 1/2"-17# TOP 747'. SDON

WSU & RU: \$2935.00	MISC: \$2037.00
DAILY TOTAL \$4972	ACCUM TOTAL \$313,352

1/29/94: OPEN WELL, POH W/BIT & DC'S. RIG UP COMPUTER LOG. TIH RAN 2000' SBL & CBL FL PBDT OF 8161' TO CMT TOP @ 2986'. PSI CSG TO 1000# DID NOT HOLD FELL OFF AT 600#. (NOTE: REVERSE HAND DRILLED OUT FLOAT COLLAR DN TO SHOE.) RIG UP BAILER, TIH DUMP BAIL 1 SX CMT. POH COMPUTER LOG DEPTH COUNTER MALFUNCTIONED. RAN INTO LUBRICATOR & PULLED ROPE SOCKET OFF. LOST IN HOLE 4" BAILER 33' LONG. SD WAITING ON FISHING TOOL.

WSU & RU: \$1895.00	MISC: \$5555.00
DAILY TOTAL \$7450	ACCUM TOTAL \$320,802

1/30/94: TD = 8161". PICK UP 3 1/4" OVERSHOT TIH TAG FISH - POH DID NOT CATCH FISH. LOOKED LIKE WE WENT OVER IT BUT DID NOT PICK IT UP. PICK UP 3 1/8" OVERSHOT TIH TAG FISH- POH-LAY DOWN BAILER & OVERSHOT. SHUT BOP'S & PSI 1000#. DV TOOL 5460". 5 1/2" - 15.5 & 17#. SHORT JTS 7914-35'. SDON.

WSU & RU: \$2345.00	MISC: \$3215.00
DAILY TOTAL \$5560	ACCUM TOTAL \$326,362

1/31/94: OPEN WELL LEFT 1000# ON 1/30/94-HAD 360# BEFORE OPENING WELL. RIG UP COMPUTALOG RAN 4.655 GAGE RING, WOULD NOT GO ANY DEEPER THAN 8116'. POH & PICKED UP PERF GUNS. TIH SHOOT 1 SPF. 7863, 7878, 7885, 7888, 7894, 7902, 7906, 7907, 7909, 7990, 8011, 8013, 8035 (15 HOLES). RIG DN W/L. PICK UP 5 1/2" MODEL R & TIH SET PKR @ 8113'. TEST CIBP TO 4000# POH ABOVE PERFS. SDON.

WSU: \$1090.00	MISC: \$1157.00
DAILY TOTAL \$2247	ACCUM TOTAL \$328,619