

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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 Gas
☐ Well ☒ Well ☐ Other

2. Name of Operator

Merit Energy Company

3. Address and Telephone No.

12222 Merit Drive, Suite 1500, Dallas, TX 75251 (214) 701-8377

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1010' FNL & 1450 FEL
SEC 15, T26N, R4W

5. Lease Designation and Serial No.
JIC104

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Jicarilla E #7E

9. API Well No.

30-039-25422

10. Field and Pool, or Exploratory Area

Basin Dakota

11. County or Parish, State

Rio Arriba, NM

12. ECK 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 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 Daily Operations
	<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 detail, 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

RECEIVED
OCT - 4 1994
OIL CON. DIV.
DIST. 3

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

Signed [Signature]

Title Regulatory Manager

Date 8/26/94

(This space for Federal or State office use)

Acting

Chief, Lands and Mineral Resources

Title

Date SEP 30 1994

(ORIG. SGD.) ROBERT A. KENT

Approved by

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 of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instructions on Reverse Side

Daily Operations Report

Well:	JICARILLA "E" 7-E	Objective:	DRILL & COMPLETE
Field:	JICARILLA	Job Type:	D&C
County:	SAN JUAN	AFE #:	756
State:	NM	WI:	0.00% AFE Amount: \$375,000.00
District:	West	NRI:	0.00% Cost To Date: \$483,385.00

Date 7/8/94 Daily Cost \$15,030.00

BUILT LOCATION & CELLAR, LINED PITS, MADE SURE ALL PERMITS ARE IN ORDER, POSTED SIGNS & BUILT RIGHT OF WAYS.

Date 7/9/94 Daily Cost \$15,566.00

TD = 356', SPUD @ 12:30 PM. DEVIATION SURVEY: 120' - 1/2 DEG, 356' - 1 DEG. POOH, PU 8 JTS OF 8 5/8" - 24# CSG, SHOE @ 356', INSERT FLOAT @ 311'. RU DOWELL, CIRC CSG, VOLUME, PUMPED 260 SX - CLASS G + 2% S-1, 1/4#/SK D-29, DISPLACE W/FW. BUMPED PLUG. PSI TO 750#. BLEED OFF W/NO FLOWBACK. PRESENT OPERATION W.O.C. CIRC 100 SX CMT TO SURFACE.

Date 7/11/94 Daily Cost \$21,905.00

TD = 1775, MADE 1419' @ 84' PER HR. DEVIATION SURVEY: 608' - 1 3/4 DEG, 802' - 2 DEG, 915' - 1 3/4 DEG, 1077' - 1 1/2 DEG, 1280' - 1 3/4 DEG, 1425' - 1 3/4 DEG, 1572' - 1 3/4 DEG. MUD WT 8.9, VIS 38, Ph 9.0, WATER LOSS 7.0. MADE CUT-OFF, WELDED SURFACE HEAD & TEST. PICKED UP 7 7/8" BIT. TIH. DRILLED OUT CMT, FLOAT SHOE & COLLAR. RESUMED DRLG FORMATION.

Date 7/12/94 Daily Cost \$13,877.00

TD = 2730' MADE 955 @ 50' PER HR. DEVIATION SURVEY - 1768' @ 2 DEGREES, 1885' @ 2 DEGREES, 2035' @ 2 DEGREES, 2260' @ 1 3/4 DEGREES, 2477' @ 3/4 DEGREES. MUD WT. - 9.0, VIS - 40, PH - 9.0, WATER LOSS - 8.0.

Date 7/13/94 Daily Cost \$13,792.00

TD = 3660, MADE 930' @ 42' PER HR. DEVIATION SURVEY: 2693' - 1 DEG, 3025' - 1 1/4 DEG, 3377' - 1 DEG. MUD ST 9.0, VIS 43, Ph 9.0, WATER LOSS 8.0.

Date 7/14/94 Daily Cost \$12,341.00

TD = 4340, MADE 680' @ 44' PER HR. DEVIATION SURVEY: 3656' - 3/4 DEG, 4161' - 3/4 DEG. MUD WT 9.0, VIS 45, Ph 9.0, WATER LOSS 8.0. POOH MADE BIT CHANGE, LOST 200 BBLs DURING TRIP. WASHED 160' TO BTM.

Date 7/15/94 Daily Cost \$11,012.00

TD = 4975', MADE 635' @ 27' PER HR. DEVIATION SURVEY: 4665 - 1 DEG. MUD WT 9.0, VIS 52, Ph 9.0, WATER LOSS 7.0.

Date 7/16/94 Daily Cost \$5,891.00

TD = 5239', MADE 264' @ 15' PER HR. DEVIATION SURVEY: 5009 - 3/4 DEG. MUD WT 9.1, VIS 48, Ph 9.0, WATER LOSS 5.0. MADE BIT TRIP.

Date 7/17/94 Daily Cost \$8,407.00

TD = 5699', MADE 460' @ 23' PER HR. DEVIATION SURVEY: 5504' - 1 DEG. MUD WT 8.9, VIS 65, Ph 9.0, WATER LOSS 8.0.

Date 7/18/94 Daily Cost \$9,322.00

TD = 5793, MADE 94'. MUD WT 8.6, VIS 60, WATER LOSS 9. LOST CIRC, PUMPED PILL, WAS UNABLE TO CIRC. WAS ABLE TO KEEP HOLE FULL. POOH. TIH W/OPEN END DRILL PIPE. WAITED ON DOWELL TO PUMP 100 SX THICKS TROPIC. PRESENT OPERATION RU DOWELL..

Date 7/19/94 Daily Cost \$15,024.00

TD = 5793'. MUD WT 8.7, VIS 60, WATER LOSS 9. END OF DRILL PIPE 5764'. RU DOWELL, 100 SX THICKS TROPIC CMT. 100SX CLASS G W/10% D53. PU OFF SLIP TO POOH. DRILL PIPE STUCK. PU KELLEY & TRIED TO CIRC(COULD NOT). WORKED PIPE & CALLED WIRELINE TO RUN FREE POINT. RU WIRELINE, RUN IN FREE POINT, PIPED 3 - 5415'. PIPE STRUCK @ 5505'. RIH W/PRIMER CORD. HOLD 4 ROUNDS LEFT HAND TORQUE, HOLD SHOOT PRIMER CORD @ 5403'. BACK OFF TOOLS JTS. PULLED 1 JT, PU TELLY, CIRC 1/2 HR. POOH, PU 7 3/8" WASH PIPE & JARS. TIH W/1ST SHOE, WASHED FROM 5413' TO 5545'. CIRC BTM UP & POOH. LAID DN 1ST SHOE. PU 2ND SHOE & TIH.

Daily Operations Report

Well:	JICARILLA "E" 7-E	Objective:	DRILL & COMPLETE
Field:	JICARILLA	Job Type:	D&C
County:	SAN JUAN	AFE #:	756
State:	NM	WI:	0.00% AFE Amount: \$375,000.00
District:	West	NRI:	0.00% Cost To Date: \$483,385.00

Date 7/20/94 Daily Cost \$12,515.00

TD = 5793. MUD WT 8.7, VIS 60, WATER LOSS 9. TIH W/2ND SHOE WASHED W/5545 - 5547. COULD'NT MAKE ANYMORE HOLE. MAY HAVE WASHED OVER TO MANY JTS OF DRILL PIPE. POOH. PU SCREWING SUB, JARS, & BUMPER SUB. TIH. SCREWED INTO FISH JAR ON FISH 1/2 HR W/NO MOVEMENT. RU WIRELINE, RAN FREE POINT DRILL PIPE, FREED @ 5530'. STUCK @ 5564'. RUN IN W/PRIMER CORD. BACKED OFF 4 JTS @ 5527'. POOH LAY DN 4 JTS OF FISH. LEAVING IN HOLE 7 JTS. PU 3RD SHOE & WASHED PIPE. TIH.

Date 7/21/94 Daily Cost \$7,750.00

TD = 5793. MUD WT 8.6, VIS 62, WATER LOSS 8. FINISHED TIH W/3RD SHOE. WASHED 5547' TO 5572'. CIRC CLEAN. POOH & CHANGED SHOE. TIH W/4TH SHOE, 5572' TO 5582.

Date 7/22/94 Daily Cost \$17,023.00

WASH 5582 TO 5633. POOH, LOST SHOE IN HOLE, THREADS BAD ON WASH PIPE, PICK UP SUB TRIP IN TO RECOVER PIPE.

Date 7/23/94 Daily Cost \$13,190.00

TD = 5633. MUD WT 8.6, VIS 63, Ph 9.0, WATER LOSS 9.0. FINISHED TIH W/DRILL PIPE. SCREW INTO FISH. RU W/L A. ATTEMPTED TO BACK OFF @ 5,638' BELOW SHOE. UNSUCCESSFUL. BACK OFF 2 JOINTS ABOVE P.O.O.H. LAY DOWN 1 JOINT OF FISH (6 JOINTS STILL IN HOLE). T.I.H. W/ W/L CUTTER, COULD NOT GET INSIDE FISH. P.O.O.H. W/CUTTER. R.D. W/L T.I.H. W/ DRILL PIPE.

Date 7/24/94 Daily Cost \$11,235.00

CURRENT TD: 5633'. MUD WT 8.6, VIS 64, PH 9.0, WATER LOSS 8.0. FINISH T.I.H. W/ DRILL PIPE. SCREW IN TO FISH. RU W/L T.I.H. W/ 2.7 O.D. JET CUTTER. GOT ON DEPTH. ATTEMPT TO CUT DRILL PIPE. CUT UNSUCCESSFUL. P.O.O.H. PICKED UP 2ND JET CUTTER & T.I.H. CUT DRILL PIPE INTO @ 5623' BY W/L & 5635' BY DRILL PIPE (2' BELOW WHERE WE LOST SHOE.) PICKED UP ON DRILL PIPE. COULD NOT PULL FISH LOOSE. UNSCREWED F/ FISH & P.O.O.H. PICKED UP D.C.'S, JARS, BUMPER SUB. SCREWED IN SUB. T.I.H., SCREW INTO FISH. JAR ON FISH W/ NO SUCCESS. UNSCREW F/ FISH & P.O.O.H. LAID DOWN WASH PIPE & ALL FISHING TOOLS. T.I.H. W/ DRILL PIPE & CIRC. @ 5480'. WAITING ON DOWELL TO SET CEMENT PLUGS FOR KICK-OFF.

Date 7/25/94 Daily Cost \$8,480.00

RU DOWELL. SPOTTED 100 SX CMT PLUG-CLASS G NEAT F/5480' TO 5100'. POOH 20 STANDS, CIRC, MADE SURE DRILL PIPE IS CLEAR. POOH. PY BIT & DRILL COLLARS. TIH 4500'. CIRC, WAITING ON CMT.

Date 7/26/94 Daily Cost \$10,380.00

TD = 5430'. MUD WT 8.5, VIS 42, Ph 9.0, WATER LOSS 9.0. FINISHED CIRC. TIH & WASHED CMT STRINGERS. CMT STARTED TAKING WEIGHT @ 5430'. PICKED UP CIRC & CONDITION MUD. POOH LAID SN BIT. TIH OPEN ENDED DP. END OF DRILL PIPE @ 5420'. RU DOWELL & SPOTTED 75 SX PLUG F/5420' CLASS G W/5% D-65. POOH. PU BIT & TIH TO 4500'. CIRC, WAITING ON CMT. WOC.

Date 7/27/94 Daily Cost \$17,266.00

TD = 5446'. FINISHED WAITING ON CMT. TIH TO 5100'. WASHED & LOOKED FOR CMT TOP. TAGGED @ 5408', DRILLED TO 5423', CIRC. BOTTOMS UP POOH W/DRILL PIPE & BIT. TIH W/DIRECTIONAL BIT & MOTOR. DRILLING 3' PER HR. 5423' TO 5446'. RETURNS SHOWING CMT & FIBER, SLIGHT FORMATION.

Date 7/28/94 Daily Cost \$11,775.00

TD = 5522', MADE 76'. DEVIATION SURVEY: 5430 @ 1 DEG, 5461 @ 1 1/4 DEG. FORMATION 95%. 23 HRS DRILLING W/KICK OFF MOTOR.

Date 7/29/94 Daily Cost \$8,727.00

TD = 5718', MADE 196' @ 14' PER HR. DEVIATION SURVEY: 5559 - 2 1/4 DEG, 5655 - 3 DEG. MUD WT 8.8, VIS 94, Ph 9.5, WATER LOSS 6.0. FINISHED WHIPSTOCK @ 5532'. POOH & LAY DN DIRECTIONAL MOTOR. PU BHA, BIT & TIH.

Date 7/30/94 Daily Cost \$11,018.00

TD = 5955, MADE 162' @ 11 FT PER HR. DEVIATION SURVEY: 5749' - 3 DEG, 5812' - 2 3/4 DEG. MUD WT 8.9, VIS 64, Ph 9.5 WATER LOSS 6.0.

Daily Operations Report

Well: JICARILLA "E" 7-E

Objective: DRILL & COMPLETE

Field: JICARILLA

Job Type: D&C

County: SAN JUAN

AFE #: 756

State: NM

WI: 0.00% AFE Amount: \$375,000.00

District: West

NRI: 0.00% Cost To Date: \$483,385.00

Date 7/31/94 Daily Cost \$5,640.00

TD = 6209', MADE 254' @ 18' PER HR. DEVIATION SURVEY: 5936 - 2 DEG. MUD WT 8.9, VIS 60, Ph 9.5, WATER LOSS 6.0. MADE BIT TRIP.

Date 8/1/94 Daily Cost \$12,662.00

TD = 7130', MADE 921' @ 45' PER HR. DEVIATION SURVEY: 6250 - 1 3/4 DEG, 6747 - 3/4 DEG. MUD WT 8.9, VIS 55, Ph 9.5, WATER LOSS 7.0.

Date 8/2/94 Daily Cost \$8,387.00

TD 7619', MADE 489' @ 41' PER HR. DEVIATION SURVEY: 7245 - 1 1/4 DEG, 7587 - 1 1/4 DEG. MUD WT 9.0, VIS 49, Ph 9.0, WATER LOSS 7.0. MAKING BIT TRIP(CURRENT OPERATION).

Date 8/3/94 Daily Cost \$3,477.00

TD = 7792, MADE 173' @ 10' PER HR. MUD WT 9.0, VIS 62, Ph 9.0, WATER LOSS 8.0. MAKING BIT DRILL(PRESENT OPERATION)

Date 8/4/94 Daily Cost \$39,033.00

TD = 7906', MADE 114' @ 7' PER HR. TD @ 10:00PM. POOH LAYING DN DRILL PIPE. CIRC MADE. SHORT BTMS UP. POOH LAYING DN DRILL PIPE.

Date 8/5/94 Daily Cost \$41,835.00

TD = 7906'. FINISHED LAYING DN DRILL PIPE & DC'S. PICKED UP SHOE, SHORT JT, & FLOAT COLLAR. TIH PICKING UP CSG. SHOE @ 7906'. FLOAT COLLAR @ 7893'. STAGE TOOL @ 5503'. PU 686'-11.60# PSI ON BTM, 6304'-10.50# PSI IN MIDDLE, 916'-11.90# PSI ON TOP. CIRC HOLE & DRIPPED VISCOSITY DN TO 48. RU HALLIBURTON, PUMPED 600 SX STANDARD-50/50 POZ MIX + 5# PER SACK GELSONITE + .6% HALAD-322 + .2% SUPER CBL. DISPLACED PLUG W/ 45 BBLS H2O & 80 BBLS MUD. BUMPED PLUG, BLEED OFF PSI W/NO FLOW BACK. DROPPED OPENING PLUG. OPENED DV TOOL & CIRC. WOC. FINISHED WAITING ON CMT(1ST STAGE). RU HALLIBURTON, PUMPED 905 SX STANDARD CMT W/.25# PER SACK FLOEELE, 15.2# PER GAL. CUTTING IT W/ NITROGEN DN TO 9.5# PER GAL. TOTAL NITROGEN PUMPED 80,000 CU. FT. TAIL FOAMED CMT W/ 235 SX 13.5# PER GAL STANDARD 50/50 POZ MIX + 5# PER SACK GELSONITE + .6% HULAD-322 + 5% MICRO BAND HT. DISPLACED W/FRESH H2O, BUMPED PLUG, CLOSED DV TOOL, BLEED OFF PSI W/NO FLOW BACK. RU ON BRADEN HEAD & PUMPED 100 SX 16.3# PER GAL STANDARD CMT W/2% CALCIUM CHLORIDE. SI & WOC 4 HRS. ND BOP'S. LANDED SLIPS, MADE CUT OFF, & NU TREE. RIG RELEASED @ 8:00AM (8/6/94)

Date 8/8/94 Daily Cost \$16,071.00

CLEAN & LEVEL LOCATION AFTER RIG MOVED. FILL CELLAR W/GRAVEL. MIRU WSU. NU BOP'S PICKED UP BIT & DC'S & TIH. PICKING UP 2 3/8" TBG. LEFT BIT SWINGING @ 5200'. SDON.

Date 8/9/94 Daily Cost \$14,120.00

FINISHED TIH W/BIT. TAGGED CMT 5527'. DRILLED OUT DV TOOL, 5547' PSI TEST SCG, 1500#. FINISHED TIH. TAGGED CMT 7676'. DRILL OUT CMT DN TO FLOAT COLLAR 7900', BY TBG TALLY. POOH RU SLUMBERGER, RAN TDT FROM PBTD BY WIRELINE F/7908' TO 4500'. POOH PU CET LOG & TIH. RAN CET F/7908' TO 6800'. SHUT OFF TOOL & PU. RESUMED CET F/5900' TO 4500'. POOH, RD SLUMBERGER. SD, WAITING TO PICK PERFS.

Date 8/10/94 Daily Cost \$5,532.00

WAITING TO PICK PERFS & TO LOAD CSG GUNS. RU SLUMBERGER & TIH. PERFORATED 1 SPF 7711', 7714', 7717', 7720', 7730', 7732', 7735', 7739', 7848, 7856', 7865', 7873', 7887', 7889', 7891'(16 HOLES). MADE 2(TWO) MISS RUNS. PICKED UP 4 1/2" MODEL R PKR & TIH 10 STDE. SDON.

Date 8/11/94 Daily Cost \$6,184.00

FINISHED TH W/PKR TO 7892'. RU HALCO CIRC 2% KCL & SPOTTED 3 BBLS ACID ACROSS PERFS. PU PKR TO 7652'. SET PKR, PSI BACKSIDE @ 500#. TU HALCO ON TBG. STARTED ACID. BREAK DN PERFS 2 BPM @ 1600#. PUMPED 1875 GALS 7 1/2% ANTI SLUDGE ACID W/ADDITIVES. PUMP RATE 4.2 BPM @ 200#. DROPPED BALL SEALERS W/35 BBLS ACID IN FORMATION. BALLED OUT @ 3800#. TRIED TO SURGE OFF, BALLS WOULD NOT COME OFF PERFS. RD HALCO & FLOWED BACK. MADE 5 SWAB RUNS & WELL FLOWED. RECOVERED 80 BBLS - H2O. AVG RATE 4.1 BPM. AVG PSI 2400#. SDON.

Daily Operations Report

Well: JICARILLA "E" 7-E

Objective: DRILL & COMPLETE

Field: JICARILLA

Job Type: D&C

County: SAN JUAN

AFE #: 756

State: NM

WI: 0.00% AFE Amount: \$375,000.00

District: West

NRI: 0.00% Cost To Date: \$483,385.00

Date 8/12/94 Daily Cost \$1,715.00

TBG PSI 2000# - FLOW WELL THEN 1/2" CHOKE FOR 5 HRS. RECOVERED 2 BBLS H2O. TAKE CHOKE SEAT OUT & FLOWED THROUGH 1.5 CHOKE NIPPLE. 3 HRS TBG PSI 200#. RECOVERED 16 BBLS H2O W/TRACE OF OIL. TOTAL RECOVERED 18 BBLS H2O.

Date 8/13/94 Daily Cost

SI 8/13/94 & 8/14/94

Date 8/15/94 Daily Cost \$2,095.00

2100# ON TBG. BLED THRU 1/2" CHOKE FOR 1 HR. TAKE CHOKE SEAT OUT & FLOW 1.5" ID @ 50# PSI RECOVERED 5 BBLS H2O. RELEASED PKR, TIH & WIPE PERFS W/PKR. POOH W/PKR. SDON.

Date 8/16/94 Daily Cost \$47,499.00

MIRU DOWELL TO FRAC. RU TREE SAVER, TESTED LINE @ 5500#. OPEN WELL HEAD 458# ON CSG STARTED PAD. PUMPED 417 BBLS 30# GEL PAD @ 30 BPM @ 2600# AVG TREATING PSI. STARTED SAND, PUMPED 420 BBLS 30# GEL CARRYING 51,043# BRADY SAND. RAMP F/2# TO 4.7#/GAL, 31 BPM @ 2300# SWITCH TO 25# GEL SYSTEM & PUMPED 335 BBLS. 25# GEL CARRYING 13,422# BRADY SAND & 25,968# RESIN COATED SAND. RAMP BRADY F/4.7 TO 5.3#/GAL. SWITCH TO RESIN COAT SAND DUE TO WELL TRYING TO SCREEN OUT. RAMP F/5.3 TO 5.9#/GAL. 30 BPM @ 2700# STARTED FLUSH, DECREASED RATE TO KEEP F/SCREENING OUT. FLUSHED TO WITHIN 2 BBLS OF TOP PERF & SCREENED OUT @ 4200#. SD, ISIP - 3270#, 5 MIN = 1300#. RD DOWELL. SDON.

Date 8/17/94 Daily Cost \$2,673.00

NO CSG PSI. SLIGHT VACUUM. PU NOTCHED COLLAR & TIH. TAGGED SAND @ 7350'. WASHED SAND F/7350' TO PBTD BY W/L 7908'. POOH 10 STDs. WAITED 30 MIN. TIH & TAG SAND @ 7885'. WASHED SAND F/7885' TO 7908'. CIRC BTMS UP & POOH 10 STDs.

Date 8/18/94 Daily Cost \$2,557.00

NO PSI ON TBG & NO PSI ON CSG. TIH W/10 STDs & TAGGED FILL @ 7898'(10' FILL). WASHED SAND F/7898' TO 7908'. POOH W/EOT @ 7590', ND BOP. LANDED TREE. RU TEST SEPARATOR & SWAB. STARTING FLUID LEVEL @ SURFACE. SWAB DN TO 2100' W/A LITTLE SHOW OF TAIL GAS. RECOVERED 105 BBLS H2O. SDON

Date 8/19/94 Daily Cost \$2,379.00

TBG PSI 950#, CSG PSI 650#. BLEW DN IN 30 MIN, MADE 1 SWAB RUN. WELL FLOWING THRU 2" @ 20# PSI @ 24 BBLS PER HR. RU NATCO TEST SEPARATOR & RIG DN.

Date 8/20/94 Daily Cost

TEST: 300# TBG PSI, 1000# CSG PSI, 265# LINE PSI, 6 OIL, 196 MCF, 30 H2O.

Date 8/21/94 Daily Cost

TEST: TBG PSI 265#, CSG PSI 850#, LINE PSI 265#, OIL 8, MCF 196, H2O 25.

Date 8/22/94 Daily Cost

TEST: TBG PSI 90#, CSG PSI 700#, LINE PSI 90#, OIL 10, MCF 275, H2O 60.

Date 8/23/94 Daily Cost

TEST: TBG 100#, CSG 650#, LINE 100#, OIL 5, MCF 290, H2O 45.