

2R - 50

**REPORTS**

**DATE:**

2002-2001

# FAX COVER SHEET

OIL CONSERVATION DIVISON  
1301 W. GRAND AVE  
ARTESIA, NM 88210

PHONE (505-748-1283)  
FAX (505-748-9720)

Date 9/24/2002

TO: Willy Olson. 476-3462.

FROM: mike Stubblefield

NUMBER OF PAGES 2 (INCLUDING COVER SHEET)

MESSAGE  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### Guidelines for Plugging Programs

The following is intended for use by Commission personnel only as a guide or check list in preparation of plugging programs. The guide is not all inclusive and care must be exercised in establishing special plugging programs in unique or unusual cases.

#### A. To be determined

1. Land type, State, private, or federal. The USGS normally formulates and/or approves plugging on federal or Indian lands.
2. Depth and thickness of:
  - (a) pay zone (perforations or open-hole)
  - (b) porosity zones not covered by casing and cement, and
  - (c) artesian and fresh water zones (including zones of non-drinkable water having total dissolved solids concentrations of 10,000 mg/l or less).
3. Casing to be pulled and depth of casing shoes.
4. Formation tops.
5. Hole use and age (production, disposal, injection, drilling well, etc.).

#### B. Requirements for old holes

*Always place cement plug @ Top of cement on casing  
 @ liner top on casing.*

1. Minimum plug size.
  - (a) Not less than 100 feet or 25 sacks, whichever is greater, or,
  - (b) a cast iron bridge plug with 35 feet of cement.
2. Plugs to be tagged.
  - (a) Bottom plugs
  - (b) Plugs at casing shoe or cut-off point.
  - (c) Other isolation plugs if the hole does not stand full.
3. Mud to be used
  - (a) Salt gel mud consisting of 10 pound brine with 25 pounds of gel per barrel.
    - (1) Load hole from total depth to first casing cut-off point.
    - (2) Fill hole to make certain it will hold fluid.
4. Plugs to be set
  - (a) A bottom plug across or above pay.
  - (b) Above and below casing cut points (even if casing is not recovered).
  - (c) To isolate other oil, gas, or water zones exposed in the hole.
  - (d) Across casing shoes.
  - (e) Minimum surface plug of 10 sacks.
  - (f) Above and below artesian water zones.
  - (g) Across fresh water zones (inside and outside the casing)

#### C. Requirements for new holes

1. Minimum plug size.
  - (a) Same as for old holes
2. Plugs to be tagged.
  - (a) In unusual cases such as for a well having a water flow, isolation plugs will be tagged.
3. Mud to be used.
  - (a) Drilling mud or salt gel mud as for old wells.
    - (1) Hole should remain full at least 30 minutes after the last plug is set and all tubing is pulled.
4. Plugs to be set
  - (a) Same as for old well except bottom plug may not be required.

*Max. 2000' between cement plugs in open hole.*

*Max. 3000' between cement plugs in casing hole.*

A REVIEW OF ALL WELLS LOCATED IN THE CITY OF CARLSBAD WELLHEAD PROTECTION AREA AND OF ALL WELLS LOCATED WITHIN ONE MILE OF THE CITY OF CARLSBAD WELLHEAD PROTECTION AREA WAS CONDUCTED BY ENVIRONMENTAL ENGINEER SPECIALIST MIKE STUBBLEFIELD.

THIS REVIEW INTELLED A STUDY OF ALL CASING SETTING DEPTHS FOR SURFACE, INTERMEDIATE, AND PRODUCTION STRINGS OF CASING RAN AND CEMENTED IN THE AREA OF REVIEW.

ALL CEMENTS USED TO CEMENT CASING IN THE REVIEW AREA WERE CHECKED FOR VOLUMES USED, QUALITY OF CEMENT USED, AND CEMENT TOPS AS PER LOGS AND SUBSEQUENT REPORTS.

THE WELL FILES FOR WELLS LOCATED IN THE REVIEW AREA WERE CHECKED FOR HISTORY AS TO REPORTED LOSS CIRCULATION ZONES, WATER FLOWS, OR OTHER PROBLEMS THAT MIGHT HAVE OCCURRED DURING DRILLING, PRODUCTION, AND PLUGGING OPERATIONS.

ALL PLUGGED WELLS IN THE AREA OF REVIEW WERE CHECKED FOR PROCEDURES USED IN THE PLUGGING OF THE WELLS, VOLUMES OF CEMENT PLUGS USED DURING PLUGGING OPERATIONS, SETTING DEPTHS OF ISOLATION PLUGS, CEMENT PLUGS VERIFIED BY TAGGING OF THE CEMENT PLUGS SET DURING THE PLUGGING OPERATIONS.

THE REVIEW FOUND CEMENT TO BE CIRCULATED TO SURFACE ON THE SURFACE AND INTERMEDIATE CASING STRINGS IN THE WELLHEAD PROTECTION AREA. LOST CIRCULATION DURING DRILLING OPERATIONS WAS COMMON IN THE AREA OF REVIEW WITH LOST CIRCULATION ZONES FROM 85" TO 2485'. LARGE PERCENT OF SURFACE AND INTERMEDIATE CASINGS WERE 1" TO SURFACE USING STAGE CEMENT METHODS.

CEMENTING OPERATIONS WERE WITNESSED BY O.C.D. AND BLM FIELD PERSONEL. PRODUCTION STRINGS OF CASING WERE WITHIN REGULATIONS AS PER CEMENT TOPS REQUIRED. ONE REPORT OF CEMENT OPERATIONS TO SHUTOFF A WATERFLOW BETWEEN 230' AND 402' WAS REPORTED ON THE CUEVA UNIT #1 LOCATED IN UT K-6-23s-26e.

DRILLING BEGIN IN THE AREA OF REVIEW AS EARLY AS 1940 WITH MOST OF THE OLDER WELLS BEING DRILLED BY CABLETOOL.

SULFUR WATERS WERE REPORTED AT A DEPTH OF 650' ON THE TURNER & DE VITO DIVITO WELL #1 WHICH WAS DRILLED IN 1940 AND LOCATED IN UT. 0-SEC. 12-23s-25e.

PLUGGED WELLS IN THE AREA OF REVIEW WERE PLUGGED USING CURRENT RULES AND GUIDE LINES FOR PLUG AND ABANDONMENT WITH THE EXCEPTION OF SOME OF THE OLDER WELLS IN THE AREA OF REVIEW WHICH WERE DRILLED BY CABLE TOOL AND PLUGGED NOT USING TODAYS RULES AND GUIDELINES FOR PLUGGING AND ABANDONMENT.

THE DEVITO WELL #1 LOCATED IN UT O-12-23s-25e WHICH WAS DRILLED

AND PLUGGED BY CALBETOOL METHOD IN 1940 APPEARS TO BE POORLY  
PLUGGED .

5/8/2002 MIKE STUBBLEFIELD ENVIR. ENG. SPEC.

Review on <sup>1,2,3</sup> 11, 12, 13, 14 235 25E  
6, 7, 18 T 235 26E

A REVIEW OF ALL THE WELLS LOCATED IN THE CITY OF CARLSBAD WELLHEAD PROTECTION AREA AND OF ALL THE WELLS LOCATED WITHIN ONE MILE OF THE CITY OF CARLSBAD WELLHEAD PROTECTION AREA WAS CONDUCTED BY ENVIRONMENTAL ENGINEER SPECIALIST MIKE STUBBLEFIELD.

THIS REVIEW INTELLED A STUDY OF ALL CASING SETTING DEPTHS FOR SURFACE, INTERMEDIATE, AND PRODUCTION STRINGS OF CASING RAN AND CEMENTED IN THE AREA OF REVIEW.  
ALL CEMENTS USED TO CEMENT CASING IN THE REVIEW AREA WERE CHECKED FOR VOLUMES USED, QUALITY OF CEMENT USED, AND CEMENT TOPS AS PER LOGS AND SUBSEQUENT REPORTS.  
THE WELL FILES FOR WELLS LOCATED IN THE REVIEW AREA WERE CHECKED FOR HISTORY AS TO REPORTED LOSS CIRCULATION ZONES, WATER FLOWS, OR OTHER PROBLEMS THAT MIGHT HAVE OCCURRED DURING DRILLING, PRODUCTION, AND PLUGGING OPERATIONS.  
ALL PLUGGED WELLS IN THE AREA OF REVIEW WERE CHECKED FOR PROCEDURES USED IN THE PLUGGING OF THE WELLS, VOLUMES OF CEMENT PLUGS USED DURING PLUGGING OPERATIONS, SETTING DEPTHS OF ISOLATION PLUGS, AND CEMENT PLUGS VERIFIED BY TAGGING OF THE CEMENT PLUGS SET DURING THE PLUGGING OPERATIONS.

DRILLING BEGIN IN THE AREA OF REVIEW AS EARLY AS 1940 WITH OLDER WELLS BEING DRILLED BY CABLETOOL METHOD AND THE MODERN WELLS BEING DRILLED BY ROTARY METHOD.  
THE REVIEW FOUND CEMENT TO BE CIRCULATED TO SURFACE ON THE SURFACE AND INTERMEDIATE CASING STRINGS IN THE WELLHEAD PROTECTION AREA.  
LOST CIRCULATION DURING DRILLING OPERATIONS WAS COMMON IN THE AREA OF REVIEW WITH LOST CIRCULATION ZONES LOCATED FROM 85' TO 2485' BEING REPORTED.  
A LARGE PERCENT OF THE SURFACE AND INTERMEDIATE CASINGS STRINGS WERE 1" TO SURFACE USING STAGE CEMENT METHODS.  
MOST OF THE CEMENTING OPERATIONS WERE WITNESSED BY O.C.D. AND BLM FIELD PERSONEL AS REPORTED ON SUBSEQUENT CASING REPORTS AND WITNESS SHEETS IN WELL FILES.  
THE PRODUCTION STRINGS OF CASING WERE WITH-IN REGULATIONS AS PER CEMENT TOPS REQUIRED BY RULE 107.E.  
ONE REPORT OF CEMENT OPERATIONS TO SHUTOFF A WATERFLOW AND BOULDERS BETWEEN 230' AND 402' WAS REPORTED ON THE CORINNE GRACE CUEVA UNIT #1 WHICH IS LOCATED IN UT K-6-23s-26e.  
THE WATER FLOW REPORT DID NOT GIVE THE QUALITY OF THE WATER IN THE WATERFLOW BEFORE THE WATER FLOW WAS SHUT OFF BY CEMENTING OPERATIONS.

MODERN PLUGGED WELLS IN THE AREA OF REVIEW WERE PLUGGED USING CURRENT RULES AND GUIDE LINES FOR PLUG AND ABANDONMENT WITH SOME HAVING WITNESS REPORTS IN WELL FILE . SOME OF THE OLDER WELLS IN THE AREA OF REVIEW WHICH WERE DRILLED BY CABLE TOOL METHOD DID NOT HAVE A REPORT ON ACTIONS TAKEN TO PLUG THE WELLS.

*only Devito*

THE DEVITO WELL #1 LOCATED 330' FSL 1650' FEL-12-23s-25e WHICH IS THE CLOSES WELL DUE NORTH AND WEST OF THE MONITOR WELL #3 WAS DRILLED BY CALBETOOL METHOD IN 1940.

THE WELL HISTORY FOUND ON THE DEVETO #1 WAS FOUND ON A SCOUTING REPORT.

THE OLDER WELLS IN DISTRICT 2 HAVE WELL HISTORY ON SCOUTING REPORTS WHICH WAS THE METHOD USED TO REPORT WELL DATA BEFORE THE IMPLMENT OF TODAYS SYSTEM OF REQUIRED REPORT FORMS.

THE SCOUTING REPORT DID SHOW 10" CASING SET AT 451' WITH 5 SX CEMENT USED AND 7" CASING SET AT 1533' MUDDED IN HOLE WITH NO REPORT OF THE CASING HAVING BEEN PULLED OR LEFT IN THE WELLBORE.

THE SCOUTING REPORT FOR THE DEVETO #1 REPORTED THE WELL TO HAVE SULPHUR WATER IN THE HOLE AT A DEPTH OF 755'-60'.

THERE WAS NO INFORMATION FOUND ON PLUGGING ACTIONS TAKEN ON THE DEVITO #1 IN THE SCOUTING REPORT .

THE SCOUTING REPORT FOR THE DEVITO #1 REPORTED THE WELL TO BE DRY AND ABANDON AT A TD OF 1758'.

THE ONLY OTHER WELL FOUND IN SECTION 12-23-25 WAS THE LOUIS DREYFUS NATURAL GAS CORP. SQUAW FEDERAL #1 LOCATED 1980' FNL 1980' FSL SECTION 12-23s-25e.

THE SQUAW FEDERAL #1 WAS PERMITTED ON 10/17/1973.

THE WELL WAS SPUDDED AND DRILLED TO A TD OF 105' BY CABLETOOL METHOD AND WAS THEN REPLACE WITH A ROTARY DRILLING RIG.

THE ROTARY RIG DRILLED TO A TD OF 425' WITH NO LOSS CIRCULATION REPORTED ON USGS FORM 9-331.16" CASING AS CEMENTED AT 100' IN THE WELL WITH 75 SX CEMENT BEING REPORTED CIRCULATED TO THE PIT.

THE SQUAW FEDERAL #1 SET 9.625" CASING AT 2660' AND CEMENTED CASING WITH 1000 SX HALCO LITE CEMENT, AND 200 SX CL. C CEMENT. SUBSEQUENT REPORT ON CEMENT OPERATIONS REPORTED THE WELL DID NOT CIRCULATE ON THE INITIAL CEMENT OPERATION AND WAS 1" TO SURFACE FROM A DEPTH OF 744' USING 535 SX CEMENT IN 5 STAGES FROM 744' TO SURFACE.

THE SQUAW FEDERAL #1 TD'ED AT A DEPTH OF 11,460' AND 5.5" CASING WAS RAN AND CEMENTED IN THE WELL AT 11,460' USING 700SX CL. H. CEMENT .

A TEMPERATURE SURVEY SHOWED TOP OF THE CEMENT TO BE AT 8200' ON THE 5.5" CASING. THE WELL WAS COMPLETED AND PRODUCED AS A MORROW WELL FROM PERFORATIONS LOCATED AT 11,203-09'. A CIBP WAS RAN AND SET AT 11,195' WITH 35' OF CEMENT ON TOP OF CIBP ON 5/22/1984. NEW PERFORATIONS WERE ADDED AT A DEPTH OF 11,098' TO 11,121' AND THE WELL PRODUCED AS A MORROW COMPLETION. A CIBP WAS RAN AND SET AT 11,080' WITH 35' OF CEMENT ON TOP OF CIBP ON 6/14/1984. THE WELL WAS PERFORATED AT 10,434' AND TESTED. A CIBP WAS RAN AND SET AT 10,385' WITH 35' OF CEMENT ON TOP OF THE CIBP AND NEW PERFORATION ADDED AT A DEPTH OF 10,138'-10,160'. THE WELL WAS THEN PRODUCED FROM THE SHEEP DRAW STRAWN. A REPORT FILED 09/04/1992 FILED THE WELL IN SHUT-IN STATUS DUE TO HIGH H2S CONTENT. 06/25/2001 A CIBP WAS RAN AND SET AT 9630' WITH 4 SX CEMENT ON TOP OF THE CIBP. MUD GEL WAS CIRCULATED TO SURFACE. THE 5.5" CASING WAS CUT AND PULLED AT 8047'. A 35 SX CEMENT PLUG WAS SET AT 8100' TO 7950' AND TAGGED AT 7942'. A 35 SX CEMENT PLUGS WAS SET AT 6550'-6440'. A 40 SX CEMENT PLUG WAS SET AT 4810'-4670'. A 40 SX CEMENT PLUG WAS SET AT 2710'-2601'. THE CEMENT PLUG WAS TAGGED AT 2573'. A 40 SX CEMENT PLUG WAS SET AT 230'-121'. A 20 SX CEMENT PLUG WAS SET FROM 50' TO SURFACE.

WELL INFORMATION ON SECTIONS BORDERING SECTION 12-23s-25e.

SECTION 11-23s-25e

1924' FNL 651' FEL MINERAL TECHNOLOGIES INC. MARY FEDERAL #1

THE MARY FEDERAL #1 WAS PERMITTED ON 12/27/1972.

THE WELL WAS SPUDDED WITH ROTARY DRILLING RIG 1/20/1973'.

16" CASING WAS RAN AND CEMENTED AT 100' W/150 SX CL. C. CEMENT CIRCULATED TO SURFACE VOLUME NOT REPORTED.

9.625" CASING WAS RAN AND CEMENT AT 2430' W/850 SX HALCO LITE & 150 SX CL C. CEMENT. CEMENT DID NOT CIRCULATE. A TEMPERATURE SURVEY FOUND THE TOP OF CEMENT TO BE AT 600'. CEMENT WAS BROUGHT TO SURFACE FROM 625' TO 270' IN 8 STAGES USING A TOTAL OF 290 SX CEMENT. THE WELL WAS READYMIXED TO SURFACE FORM 270' USING 14 YDS READYMIX. THE WELL WAS TD'ED AT 11,570'. CEMENT PLUGS SPOTTED WERE A 35 SX CEMENT 11,050'-10,950'. A 50 SX CEMENT PLUG 9900'-9800', A 50 SX CEMENT PLUG 8600'-8500'. A 50 SX CEMENT PLUG 6500'-6400'. A 50 SX CEMENT PLUG 5000'-4900'. A 50 SX CEMENT PLUG 2480'-2380'. A 10 SX CEMENT SURFACE PLUG.

NO REPORT ON ANY CEMENT PLUGS BEING TAGGED DURING PLUGGING OPERATIONS.

8/24/1973 THE WELL WAS REENTERED AND DRILLED TO A TD OF 11,570'.  
5.5" CASING WAS RAN AND CEMENTED AT 11,570' W/350 SX CL. H CEMENT.  
TEMPERATURE SURVEY FOUND TOP OF CEMENT TO BE AT 10,100'.  
THE 5.5" CASING WAS PERFORATED AT 9830'-33'. THE WELL WAS  
SQUEEZED W/ 725 SX CL. H CEMENT. THE 5.5" CASING WAS PERFORATED  
AT 11,363'-83'. THE WELL WAS PRODUCED FROM THE WILDCAT MORROW  
FORMATION. A CIBP WAS RAN AND SET AT 11,003' WITH 35' OF CEMENT ON  
TOP OF CIBP. THE 5.5" CASING WAS PERFORATED AT 10,500'. A CIBP WAS  
RAN AND SET AT 10,500'. THE 5.5" CASING WAS PERFORATED AT 10,268'-  
292' WITH THE WELL PRODUCING FROM THE SHEEP DRAW STRAWN  
FORMATION. NEW PERFORATIONS WERE ADDED 12/5/1994 9850'-10,050'.

*Exxon*  
1925' FNL 810' FEL MINERAL TECHNOLOGIES INC. MARY FEDERAL #3

THE MARY FEDERAL #3 WAS PERMITTED ON 7/17/1984.  
THE WELL WAS SPUDDED AND DRILLED TO 1183'.  
THE WELL WAS PLUGGED DUE TO A FISH CONSISTING OF 468' OF DRILL  
PIPE WAS LEFT IN THE HOLE FROM 468'-1183'. THE WELL WAS PLUGGED  
WITH 40 SX CEMENT 1183'-1233'. A 40 SX CEMENT WAS SET FROM 50' TO  
SURFACE. THE RIG WAS SKIDDED 15' NW OF THE WELL TO MARY FED. #3Y.

*Exxon*  
1906' FNL 807' FEL MINERAL TECHNOLOGIES INC. MARY FEDERAL #3Y

THE MARY FEDERAL #3Y WAS PERMITTED 9/21/1984.  
THE WELL WAS SPUDDED 8/29/1984 WITH ROTARY DRILLING RIG.  
8.625" CASING WAS RAN AND CEMENTED AT 1329' W/800 SX PACESETTER  
LITE CEMENT. A TEMPERATURE SURVEY FOUND THE TOP OF CEMENT TO  
BE AT 615'. THE CEMENT WAS BROUGHT TO SURFACE FROM 615' IN 1  
STAGE WITH TOTAL 303 SX CEMENT. 5.5" CASING WAS RAN AND SET AT  
5167' W/ DV TOOL SET AT 2814'. THE 1<sup>ST</sup> STAGE CEMENT W/1850 SX CL. C. &  
THE 2<sup>ND</sup> STAGE CEMENT W/450 SX. CEMENT DID NOT CIRCULATE.  
TEMPERATURE SURVEY FOUND THE TOP OF CEMENT AT 872'. THE 5.5"  
CASING WAS PERFORATED AT 4783'-92'. THE WELL PRODUCED FROM THE  
CHERRY CANYON FORMATION.  
THE WELL WAS PLUGGED ON 1/7/1985. A CIBP WAS RAN AND SET AT 4750'  
WITH 35' OF CEMENT ON TOP OF CIBP. A 15 SX CEMENT CEMENT PLUG WAS  
SET AT 2864'-2764'. A 15 SX CEMENT PLUG WAS SET AT 1379'-1279'. A 10 SX  
CEMENT PLUG WAS SET FROM 30' TO SURFACE. FROM SURFACE TO 90'  
BETWEEN 8.625" CASING & 5.5' CASING WAS TOPPED OFF W/10 SX CL.  
C.CEMENT.

*Alton Pet. OK*  
709' FSL 1929' FWL MINERAL TECHNOLOGIES, INC. MARY FEDERAL #5

THE MARY FEDERAL #5 WAS PERMITTED 8/20/1985.  
THE WELL WAS SPUDDED ON 9/21/1985 WITH A ROTARY DRILLING RIG.

20" CONDUCTER CASING WAS RAN AND CEMENTED AT 95' W/125 SX CEMENT. THE WELL LOST CIRCULATION AT 290'. THE OPERATOR NOTIFIED CLAUDE LABOR CITY MANAGER OF CARLSBAD & JIM WRIGHT STATE ENGINEER. THEY APPROVED GEAR GUM AS HOLE SWEEP. SET LOST CIRCULATION CEMENT PLUGS AT 250'-305' & 131'-250' W/200 SX CL. C. CEMENT. RESUME DRILLING. 13.375" CASING WAS RAN AND SET AT 1613' W/1600 SX HAL. LITE & 400 SX CL. C. CEMENT. CEMENT CIRCULATED TO SURFACE INITIAL CEMENT OPERATION.

9.625" CASING WAS RAN AND CEMENTED AT 2600' W/ 475 SX HOWCO LITE & 300 SX CL. C. CEMENT. THE CEMENT CIRCULATED TO SURFACE ON INITIAL CEMENT OPERATON..

7" CASING WAS RAN AND CEMENTED AT 10,395' WITH A DV TOOL SET AT 4792'. 1<sup>st</sup> STAGE WAS 745 SX CL. H. CEMENT & 2<sup>nd</sup> STAGE 975 SX TLW CEMENT. THE TOP OF CEMENT WAS FOUND BY TEMPERATURE SURVEY TO BE AT 2990'.

THE 7" CASING WAS PERFORATED AT 9742'-52' AND THE WELL PRODUCED FROM THE SHEEP DRAW - UNDESIG. SHEEP DRAW STRAW FORMATION. NEW PERFORATIONS WERE ADDED AT 10,120'-146'.

NEW PERFORATIONS WERE ADDED 9742'-52'. A COMMINGLE PERMIT GRANTED AND WELL PRODUCED FROM SHEEP DRAW -STRAWN GAS POOL AND UPPER PENN FORMATIONS.

#### SECTION 14-23s-25e NO WELLS

#### SECTION 13-23s-25e

2310' FNL 2240' FEL EXXON CORP. SQUAW FEDERAL #2

THE SQUAW FEDERAL #2 WAS PERMITTED ON 9/28/1983.

THE WELL WAS SPUDDED ON 12/22/1983.

8.625" CASING WAS RAN AND CEMENTED AT 1325' W/700 SX CL. B5, & 550 SX CL. C. CEMENT. THE CEMENT CIRCULATED TO SURFACE ON INITIAL STAGE OF CEMENT OPERATIONS.

5.5" CASING WAS RAN AND CEMENTED AT 5172' WITH A D.V. TOOL SET AT 3020'. THE 1<sup>st</sup> STAGE WAS CEMENTED W/550 SX CL. C. & 2<sup>nd</sup> STAGE W/ 900 SX CL. C. CEMENT. CEMENT DID NOT CIRCULATE ON INITIAL CEMENT OPERATON. A TEMPERATURE SURVEY FOUND THE TOP OF THE CEMENT TO BE AT 1050' ON THE 5.5" CASING .

THE 5.5" CASING WAS PERFORATED AT 4732'-74' AND THE WELL PRODUCED FROM THE WEST DARK CANYON DELAWARE FORMATION. THE WELL WAS T&A'eD ON 1/2/1985 WITH A CIBP SET AT 4650'.

THE WELL WAS PLUGGED ON 12/3/1991.

A CIBP WAS RAN AND SET AT 4620'. A 25 SX CEMENT PLUG WAS SET AT 4362'. A 25 SX CEMENT PLUG WAS SET AT 3080'-2827'. A 25 SX CEMENT PLUG WAS SET AT 1375'-1122'. A 10 SX CEMENT PLUG WAS SET AT 100' TO SURFACE. NO REPORT ON CEMENT PLUGS BEING TAGGED.

UT P-13-23s-25e EXXON CORPORATION NEW MEXICO DS STATE #1

EXPIRED DRILLING INTENT.

SECTION 18-23s-26e

660' FNL 1980' FWL E.P. MORAN RAMAZ #1

THE RAMAZ #1 WAS ON PERMITTED 5/31/1940.

7" CASING WAS RAN AND CEMENTED AT 1660'. AND ESTIMATED 14 SX OF CEMENT WAS USED AS PER RECORDS ON WELL.

THE WELL WAS TD AT 1808'.

THE WELL RECORDS REPORTED ON 8/4/1940 STRUCK WATER {SALT} AT 1808' WHICH CAME UP APPROXIMATELY 1500' IN THE HOLE.

THE WELL WAS PLUGGED ON 10/5,6/1940 SUBSEQUENT REPORT AS FOLLOWS.

CEMENTED BOTTOM WATER AT 1808' WITH 10 SACKS. LEFT 235' OF 7 INCH WHICH WAS CEMENTED TO SHUT OFF WATER ENCOUNTERED AT 1563'-66' WITH 10 SACKS OF CEMENT IN ORDER TO PROTECT ANY SURFACE WATERS. LEFT 100' OF 8.25" SURFACE PIPE. FILLED HOLE UP WITH MUD AND PLACED A CEMENT CAP WITH REGULATION 4" PIPE AS MARKER.

1980' FNL 1700' FEL OXY USA WIP LIMITED PARTNERSHIP  
OXY HONEST JOHN STATE #1

THE OXY HONEST JOHN WAS PERMITTED ON 10/19/2001.

THE WELL WAS SPUDDED ON 3/13/2001.

THE WELL LOST CIRCULATION AT 156' AND WAS DRY DRILLED TO TD @ 719'.

13.375" CASING WAS RAN AND CEMENTED AT 718' W/200 SX CL. H., 366 SX 65/35 POZ. & 200 SX CL. C. CEMENT.

CEMENT DID NOT CIRCULATE ON INITIAL CEMENT OPERATION. A TEMPERATURE SURVEY FOUND THE TOP OF CEMENT TO BE AT 116'. THE CEMENT WAS BROUGHT TO SURFACE FROM 155' IN 3 STAGES WITH 250 SX CEMENT USED.

9.625" CASING WAS RAN AND CEMENTED AT 2807' W/780 SX 65/35 POZ. & 200 SX CL. C. CEMENT. THE CEMENT CIRCULATED TO SURFACE ON INITIAL CEMENT OPERATION. 7" CASING RAN AND CEMENTED AT 9470' W/525 SX 65/35 POZ. & 200 SX CL. H. CEMENT. A TEMPERATURE SURVEY FOUND THE TOP OF CEMENT TO BE AT 3200'.

A 4.5" LINER WAS RAN AND CEMENTED AT 8933'-11,780' W/400 SX CL. C. CEMENT.

A CBL RAN FOUND THE TOP OF CEMENT TO BE AT 3260'. PERFORATED 4.5" LINER AT 11,612'-18'. THE WELL IS PRODUCING FROM THE CARLSBAD MORROW SOUTH.

660' FSL 1673' FWL MAYER & MERTZ BLUEWATER FEDERAL #1

THE BLUEWATER FEDERAL #1 WAS PERMITTED ON 10/1/1983.  
13.375" CASING WAS RAN AND CEMENTED AT 281' W/ 100 SX HALL. LITE, &  
400 SX CL. C. CEMENT. CEMENT CIRCULATED ON INITIAL CEMENT  
OPERATION.

8.625" CASING WAS RAN AND CEMENTED AT 1596' W/ 580 SX CL. C.  
CEMENT.

CEMENT CIRCULATED ON THE INITIAL CEMENT OPERATION.

4.5" CASING WAS RAN AND CEMENTED AT 5056' W/ 850 SX 50/50 POZ.  
CEMENT. THE TEMPERTURE SURVEY FOUND THE TOP OF CEMENT TO BE  
AT 2690'.

THE 4.5" CASING WAS PERFORATED AT 4926'-44'.

A CIBP WAS RAN AND SET AT 4920' WITH 10' OF CEMENT ON TOP OF CIBP.

THE 4.5" CASING WAS PERFORATED AT 4795'-4851'.

A CIBP WAS RAN AND SET AT 4785'

THE 4.5" CASING WAS PERFORATED AT 4684'-4756'.

THE WELL IS PRODUCING FROM THE WILDCAT DELAWARE POOL.

SECTION 7-23s-26e

2310' FEL 660' FSL EXXON CORP. NEWMAN #1

THE NEWMAN #1 WAS PERMITTED ON 2/10/1975.

THE WELL WAS SPUDDED ON 2/13/1975 WITH A CABLETOOL.

5/12/1975 A ROTARY RIG WAS MOVED ONTO THE WELL.

16" CASING WAS RAN AND CEMENTED AT 96' W/ 180 SX CL. C. CEMENT.

CEMENT CIRCULATED TO THE SURFACE ON INITIAL CEMENT OPERATION.

9.625" CASING WAS RAN AND CEMENTED AT 2480' W/ 900 SX HOWCO LITE &  
150 SX CL. C. CEMENT. THE CEMENT CIRCULATED TO SURFACE ON INITIAL  
CEMENT OPERATION.

THE WELL WAS TD'ED AT 11,625'. THE WELL WAS PLUGGED BACK TO 4920'.

A 35 SX CEMENT PLUG WAS SET AT 11,100'. A 35 SX CEMENT PLUG WAS SET  
AT 10,100',

A 35 SX CEMENT PLUG WAS SET AT 8600'-8500'. A 35 SX CEMENT PLUG  
WAS SET AT 6200'-6100',

A 55 SX CEMENT PLUG WAS SET AT 5040'-4910'.

THE CEMENT PLUG WAS DRESSED OFF TO 4920'.

THE 4.5" CASING WAS RAN AND CEMENTED AT 4920' W/ 675 SX 50/50 POZ.

THE 4.5" CASING WAS PERFORATED AT 4781'-90'.

THE WELL IS PRODUCING FROM THE BRYNES MIDDLE TANK DELEWARE  
GAS POOL.

6/27/1984' NEW PERFORATIONS WERE ADDED AT 4746'-80'.

THE WELL WAS PLUGGED 2/25/1985.

A CIBP WAS RAN AND SET AT 4200'. A CIBP WAS RAN AND SET AT 4168'

WITH 10 SX CEMENT ON TOP OF CIBP. THE CASING WOULD NOT PRESSURE

TEST. OPERATOR FOUND A HOLE IN 4.5" CASING AT 3495'. HOLE IN CASING WERE SQUEEZED UNDER PACKER USING 50 SX CL. C. CEMENT. PRESSURE TESTED CASING OK TO 1000# PSI. PERFORATED 4.5" CASING AT 2535'. AND TRIED TO SQUEEZE. PRESSURE HELD. SPOTTED 20 SX CL. C. CEMENT AT 2535'. TAGGED CEMENT AT 2304'. PERFORATED THE 4.5" CASING AT 1320' AND CIRCULATED WITH MUD TO SURFACE. SQUEEZED A 30 SX CL.C. CEMENT PLUG AT 1320'. PERFORATED 4.5" CASING AT 50' AND CIRCULATED CEMENT TO SURFACE .

SECTION 6-23s-26e

1980' FSL 1980' FWL CORINNE GRACE CUEVA UNIT #1

THE CUEVA UNIT #1 WAS PERMITTED ON 9/12/1974.

THE WELL WAS SPURRED ON 9/14/1974.

CONDUCTOR PIPE WAS SET AT 30'.

16" CASING WAS RAN AND CEMENTED AT 255' W/ 490 SX CL. C. CEMENT. CEMENT CIRCULATED TO SURFACE ON INITIAL CEMENT OPERATION.

11.75" CASING WAS RAN AND CEMENTED AT 1257' W/ 515 SX CL. C.

CEMENT. A TEMPERATURE SURVEY FOUND TOP OF CEMENT TO BE AT 1000'.

THE CEMENT WAS TAGGED AT 788' AND BROUGHT TO SURFACE IN 7 STAGES FROM 788' WITH 420 SX CEMENT USED. DURING DRILLING OPERATIONS A 5 SX CEMENT PLUG WAS SPOTTED AT 402' TO SHUTOFF A WATER FLOW AND BOULDERS FROM 402'-230'.

8.625" CASING WAS RAN AND CEMENTED AT 4915' W/540 SX HALL. LITE & 150 SX CL. C CEMENT. NO REPORT ON CEMENT CIRCULATED . THE TOC WAS AT 1180' BY TEMPERATURE SURVEY.

THE WELL WAS TD'ED AT 11,535'.

5.5" CASING WAS RAN AND CEMENTED AT 11,618' W/ 1350 SX CL. H.

CEMENT. A TEMPERATURE SURVEY FOUND THE TOP OF CEMENT TO BE AT 6,900'.

THE 5.5" CASING WAS PERFORATED AT 10,164'-266'.

THE WELL IS PRODUCING FROM THE SHEEP DRAW STRAWN POOL.

NEW PERFORATIONS WERE ADDED 11/18/1983 AT 11,178'-88'.

NEW PERFORATIONS WERE ADDED AT 11,116'-24' ON 11/27/1983.

SECTION 1-23s-25e

2130' FSL 2160' FWL LOUIS DREYFUS NATURAL GAS CORP. SQUAW FED. #3

THE SQUAW FEDERAL #3 WAS PERMITTED ON 8/20/1985.

THE WELL WAS SPURRED ON 9/14/1985 WITH A ROTARY DRILLING RIG.

20" CONDUCTOR PIPE WAS SET AT 85' WITH 250 SX CL. C. CEMENT & ALSO READY MIXED TO SURFACE.

THE WELL LOST CIRCULATION AT 203' WHILE DRILLING.

13.375 CASING WAS RAN AND CEMENTED AT 1510' W/ 1600 SX CL. C.& 300 SX CL. C. CEMENT. THE CEMENT DID NOT CIRCULATE. A TEMPERATURE

SURVEY FOUND THE TOP OF CEMENT AT 950'. THE CEMENT WAS BROUGHT TO SURFACE FROM 627' IN 7 STAGES WITH 735 SX CEMENT USED.

9.625" CASING WAS RAN AND CEMENTED AT 2604' W/ 475 SX HOWCO LITE & 300 SX CL. C. CEMENT. THE CEMENT CIRCULATED TO SURFACE ON THE INITIAL CEMENT OPERATION. 5" CASING WAS RAN AND CEMENTED AT 11,665' WITH A D.V. TOOL SET AT 4778'. CEMENTED W/ 1<sup>st</sup> STAGE 1800 SX CL. H. CEMENT & 2<sup>nd</sup> STAGE W/1000 SX TLW. CEMENT.

THE CEMENT DID NOT CIRCULATE TO SURFACE ON INITIAL CEMENT OPERATION. A TEMPERATURE SURVEY FOUND TOP OF CEMENT TO BE AT 3300'.

THE 5" CASING WAS PERFORATED AT 11,218'-621'.

THE WELL IS PRODUCING FROM THE SHEEP DRAW MORROW GAS POOL. 7/9/1987 A VALVE ON A SERVICE COMPANY'S BLENDER WAS LEFT OPEN ALLOWING APPROXIMATELY 5-10 BBL OF DIESEL TO LEAK ONTO THE LOCATION. THE LEAK WAS STOPPED BY CLOSING THE VALVE. THE AFFECTED AREA COVERED MOST OF THE SW/4 OF THE LOCATION AND A AREA 8' WIDE TAPERING TO 6' WIDE 200' IN LENGTH, WEST OF THE LOCATION. THE LEAK DID NOT AFFECT ANY SURFACE WATER. THE AREA WAS CLEANED UP BY COVERING IT WITH FRESH DIRT.

A CIBP WAS RAN AND SET AT 11,150'.

NEW PERFORATIONS WERE ADDED AT 10,469'-857'.

WELL IS PRODUCING FROM THE SHEEP DRAW ATOKA POOL.

COMMINGLE PERMIT APPROVED 3/15/1988'.

NEW PERFORATIONS ADDED AT 9754'-9770'.

3/26/1997 RAN AND SET CIBP AT 10,050' WITH 50' OF CEMENT ON TOP OF CIBP.

NEW PERFORATIONS WERE ADDED 9989'-9992'.

WELL IS PRODUCING FROM THE SHEEP DRAW ATOKA {GAS} POOL.

NO WELLS FOUND IN SECTIONS 2-22s-25e OR 3-22s-25

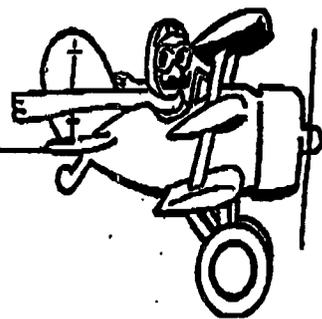
7/17/2002 MIKE STUBBLEFIELD ENVIR. ENG. SPEC.

# IN COMING!

DATE: 12/27/2001

476-3462

ATTENTION: Willy Olson  
 FROM: Mike Stubblefield  
 NUMBER OF PAGES INCLUDING COVER SHEET:  
8



OIL CONSERVATION DIVISION  
 DISTRICT II  
 ARTESIA, NM 88210

IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMISSION OR IF YOU DO NOT  
 RECEIVE ALL PAGES, PLEASE CALL 505-748-1283.  
 FAX NUMBER: (305) 748-9720

---

---

---

---

---

---

---

---

HAVE A GREAT DAY!



**CARDINAL  
 LABORATORIES**

PHONE (915) 678-7001 • 2111 BEECHWOOD • ABILENE, TX 79609  
 PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR  
 CITY OF CARLSBAD  
 P.O. BOX 1569  
 CARLSBAD, NM 88220  
 FAX TO: (505) 385-0385**

Receiving Date: 12/20/01  
 Reporting Date: 12/20/01  
 Project Number: NOT GIVEN  
 Project Name: NOT GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 12/20/01  
 Sample Type: GROUNDWATER  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/20/01	12/20/01	12/20/01	12/20/01
h6383-1	MONITOR WELL #3	0.005	0.005	<0.002	<0.006
Quality Control		0.099	0.099	0.099	0.286
True Value QC		0.100	0.100	0.100	0.300
% Recovery		99.1	99.4	99.1	95.2
Relative Percent Difference		1.0	2.0	2.2	2.8

METHOD: EPA SW-846 8260

NOTE: The analysis was extended and the following compounds were tentatively identified:  
 Diethyl sulfide, Methyl ethyl sulfide, Acetone, Methoxypropene.

*Bryndis Roche*  
 Chemist

12/20/01  
 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**RECEIVED**  
MAY 31 1940

**NOTICE OF INTENTION TO DRILL**

Notice must be given to the Oil Conservation Commission or its proper agent and approved before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned upon approval. See additional instructions in Rules and Regulations of the Commission.

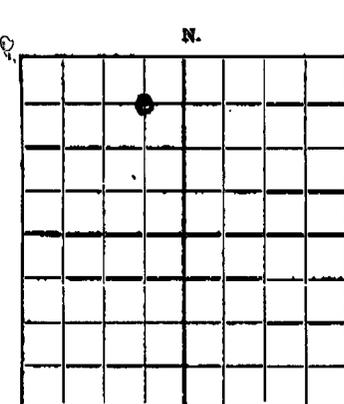
CARLSBAD, N. M. Jan. 10, 1940

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as \_\_\_\_\_

RAMUZ Well No. 1 in  
Company of Operator Dark Canyon Lease  
of Sec. 18, T. 23 S, R. 26 E, N. M. P. M., Dark Canyon field, Eddy County.



The well is 660 ft feet [N.] [S.] of the North line and 1980 ft feet [E.] [W.] of the West line of Sec 18 Twp. 23 S Range, 26 E.

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_

If patented land the owner is Ramuz, Carlsbad, N. M.

Address \_\_\_\_\_

If government land the permittee is \_\_\_\_\_

Address \_\_\_\_\_

The lessee is D. C. DeVito

Address Scharbauer Hotel, Midland, Texas

AREA 640 ACRES  
LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows: \_\_\_\_\_

Model Super D Fort Worth spudder

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Appld for American Emp. Ins. Co.

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
10 "	8 1/2 "	30#	S. H.	Approx 150'	Cmt. 25 Sx.	
8 "	7 "	20#	New	1350'	Cmt. 100 sx. if it is necessary to use	

If changes in the above plan become advisable we will notify you before cementing or landing <sup>this pipe</sup> casing. We estimate that the first productive oil or gas sand should occur at a depth of about 1500 feet.

Additional information:

Although the salt action should not be found on this location it will be protected according to the rules and regulations if it should be encountered.

MAY 31 1940

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

Sincerely yours,  
E. Paul Moran  
E. Paul Moran  
Company or Operator

By Self

Position Owner

Send communication regarding well to

Name E. Paul Moran P.O.B. 409

Address Carlsbad, N. M.

OIL CONSERVATION COMMISSION,  
By Roy Garbrough  
Title OIL & GAS INSPECTOR

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**RECEIVED**  
JUL 12 1940  
**CORPS OFFICE**

**MISCELLANEOUS NOTICES**

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before ~~to begin~~ to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO FULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Carlsbad, New Mexico, July 7 1940

Place

Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the

E. Paul Moran, Ramus Well No. 1 in NE1/4  
Company or Operator Lease

of Sec. 18, T. 23 south R 26 east, N. M. P. M., Wildcat Field,  
Eddy County.

**FULL DETAILS OF PROPOSED PLAN OF WORK**

**FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION**

**Running 7 inch O.D. to shut-off water. Halliburton doing the cementing job, on ~~Wed~~ Tuesday, July 9th. Will drill cement plug on Friday, July 12th., and test for shut-off.**

**Estimated to use 14 sacks of cement.**

**JUL 12 1940**

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

E. Paul Moran,  
Company or Operator

By E. Paul Moran

Position \_\_\_\_\_  
Send communications regarding well to

Name E. Paul Moran

Address Carlsbad, New Mexico.

OIL CONSERVATION COMMISSION,  
By Ray G. Galloway  
Title OIL & GAS INSPECTOR

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED  
AUG 8 - 1940  
HOBBS OFFICE

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Carlsbad, New Mexico August 1 1940

Place Date

OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico.  
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

E. Paul Moran Ramuz Well No. 1 in the  
Company or Operator Lease

EEI NW1 of Sec. 18, T. 23 south, R. 26 east, N. M. P. M.,  
Wildcat Field, Eddy County

The dates of this work were as follows: July 23-25

Notice of intention to do the work was (~~made~~) submitted on Form C-102 on July 7 1940 19  
and approval of the proposed plan was (~~made~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

After drilling plug, 2 bailers of water came in per hour, prepared well for Halliburton to test for shut off. Halliburton placed 600 lbs. pressure at the casing head and declared it to be a perfect shutoff. Water coming in is what water was absorbed by the open formation. Now bailing and water exhausting.

Witnessed by D. C. De Vito Independent  
Name Company Title

Subscribed and sworn to before me this 1st  
day of August, 1940  
[Signature]  
Notary Public

I hereby swear or affirm that the information given above is true and correct.  
Name E. Paul Moran  
Position Owner  
Representing \_\_\_\_\_  
Company or Operator  
Address \_\_\_\_\_

My Commission expires August 5, 1941

Remarks:

Roy Gardner  
Name  
W. & C. S. INSPECTOR

Form G-102

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

**MISCELLANEOUS NOTICES**

**RECEIVED**  
AUG 14 1940  
OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<b>X</b>
NOTICE OF INTENTION TO REPAIR WELL			
NOTICE OF INTENTION TO DEEPEN WELL		NOTICE OF INTENTION TO PLUG WELL	<b>X</b>

Osishad, New Mexico August 9 1940  
Place Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the \_\_\_\_\_  
E Paul Moran #1 Ramus Well No. 1 in NE 1/4 NW 1/4  
Company or Operator Lease  
of Sec. 18, T. 23 S, R. 26 E, N. M. P. M., Wildcat Field,  
Eddy County.

**FULL DETAILS OF PROPOSED PLAN OF WORK**

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Struck water (salt) at 1808' and came up approximately 1500' in the hole. We are cementing this water with 10 sacks of cement. Will leave in the hole between 200 and 250' of cemented pipe which we ran to shut off water encountered at 1565'. After balance of pipe is pulled will fill hole with mud up to 2508' from the surface and cement with 10 sacks of cement to protect whatever surface waters there may be above, then will mud hole up to near the surface and place a cement cap with regulation 4" pipe as marker for this well

**AUG 14 1940**

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

E Paul Moran  
Company of Operator

By \_\_\_\_\_  
Position \_\_\_\_\_  
Send communications regarding well to \_\_\_\_\_

OIL CONSERVATION COMMISSION,  
By Roy Garbrough  
This OIL & GAS INSPECTOR

TRIPlicate

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

NOV 18 1940  
RECEIVED  
HOBSBS OFFICE

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

Carlsbad, New Mexico Nov 7 1940  
Place Date

OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico.  
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the.....

E. Paul Moran Ramiz Well No. 1 in the  
Company or Operator Lease  
Center NE 1/4 of Sec. 18, T. 23 south, R. 26 east, N. M. P. M.,  
Wilcoat Field, Eddy County

The dates of this work were as follows: August 10-15th, Nov. 5-6th, 1940

Notice of intention to do the work was (was not) submitted on Form C-102 on August 9 1940  
and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Cemented bottom water at 1808 feet with 10 sacks. Left 235 feet of 7 inch which was cemented to shut off water encountered at 1563-66'. Filled hole with mud up to 225 feet from the surface and cemented with 10 sacks of cement in order to protect any surface waters. Left 100 feet of 8 1/2 inch surface pipe. Filled hole up with mud and placed a cement cap with regulation 4" pipe as marker.

Witnessed by D.C. De Vito and George Roundey, Independent Operators.  
Name Company Title

Subscribed and sworn to before me this 13  
day of November, 1940  
[Signature]  
Notary Public

I hereby swear or affirm that the information given above is true and correct.  
Name E. Paul Moran  
Position Owner  
Representing \_\_\_\_\_  
Company or Operator  
Address Carlsbad, New Mexico

My Commission expires August 1941

Remarks:

R. O. Yarbrough  
Name  
OIL & GAS INSPECTOR  
Title



\*\*\*\*\*  
 \* P. 01 \*  
 \* TRANSACTION REPORT \*  
 \* DEC-27-2001 THU 03:53 PM \*  
 \* FOR: \*  
 \*-----\*  
 \* RECEIVE \*  
 \*-----\*  
 \* DATE START SENDER RX TIME PAGES TYPE NOTE M# DP \*  
 \*-----\*  
 \* DEC-27 03:50 PM 15057489720 3'07" 8 RECEIVE OK \*  
 \*-----\*  
 \*\*\*\*\*

# FAX COVER SHEET

OIL CONSERVATION DIVISON  
1301 W. GRAND AVE  
ARTESIA, NM 88210

PHONE (505-748-1283  
FAX (505-748-9720

Date 6/19/2002

TO: William Olson 476-3462.

FROM: mike Stobblefield

NUMBER OF PAGES 3 (INCLUDING COVER SHEET)

MESSAGE Turner + DeVito DeVito #1 Info.

---

---

---

---

---

\*\*\*\*\*  
\* P.01 \*  
\* TRANSACTION REPORT \*  
\* JUN-19-2002 WED 08:30 AM \*  
\* FOR: OCD DISTRICT II 15057489720 \*  
\*\*\*\*\*

DATE	START	RECEIVER	TX TIME	PAGES	TYPE	NOTE	M#	DP
JUN-19	08:19 AM	17004763462	5' 36"	4	SEND	OK	568	

\*\*\*\*\*

**Olson, William**

---

**From:** Stubblefield, Mike  
**Sent:** Monday, January 07, 2002 11:44 AM  
**To:** Olson, William  
**Subject:** MINERALS TECH INC. MARY FED. #1 30-015-20785 H-11-23s-25e SI WELL GAS WELL.

WILLY,

HERE IS INFO. ON THE WELL YOU ASKED ABOUT.  
THE MARY FED. #1 HAS 16" CASING SET AT SET AT 100' CIRC.

THE 9.625" CASING IS SET AT 2430' AND CEMENTED W/1000 SXS INITIAL .  
DID NOT CIRC. TOC AT 600' BY TEMP. SURVEY. 1" TO SURFACE FROM  
625' IN 9 STAGES.

THE OPERATOR WAS UNABLE TO CIRC. CEMENT ON THE 9.625" CASING  
TO SURFACE IN THE WELL USING CONVENTION CEMENTING METHODS FROM 270' TO SURFACE.  
14 YARDS READY MIX USED FROM 270' TO SURFACE .

5.5" CASING IS SET AT 11,570' CEMENTED W/350 SXS CL. H CEMENT.  
TOC. AT 10.100' BY TEMP. SURVEY. ON 5.5" CASING STRING.

THERE IS A PLUGGING PROCEDURE IN WELL FILE WRITTEN BY O.C.D.  
STAFF AND THE MARY FED. #1 MY BE HEADED TO SHOW CAUSE.

MIKE S.



Inventory Log

Quantity	33	33
Unit Price	55	55
Amount	1815	1815



FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	210	210	Sand, Gravel and Lime Boulders.
210	230	20	Anhydrite and Red Beds.
230	1160	930	Anhydrite
1160	1260	100	Anhydrite and Lime
1260	1280	20	Anhydrite
1280	1397	117	Anhydrite and Lime.
1397	1420	23	Black Lime Top of Delaware Line 1397
1420	1460	40	Lime, Sand and trace of Shale
1460	1680	220	Black and Grey Lime
1680	1790	110	Sand, cemented Water
1790	1820	30	Sand
1820	1870	50	Sand Water
1870	1950	70	Shale and Lime
1950	1995	45	Sand
1995	2197	202	White and Buff Lime
2197	2367	170	Sand, Shale and Lime
2367	2380	13	Lime
2380	2425	45	Sand, Shale and Lime
2425	2445	20	Brown and Buff Lime with trace of sand and shale
2445	2490	45	Grey Shale and Sand
2490	2570	80	Buff to light Lime
2570	2625	55	Grey Shale and loose Sand.
2625	2635	10	Black to dark grey Lime
2635	2660	25	Grey Shale and sand,
2660	2670	10	Black to dark Grey Lime.
2670	2704	34	Grey Shale and Sand.
2704	2716	12	Black and Grey Lime, Shale and Sand.
2716	2753	37	Black Cal. Shale and Sand with trace of Lime.

# FAX COVER SHEET

OIL CONSERVATION DIVISON  
1301 W. GRAND AVE  
ARTESIA, NM 88210

PHONE (505-748-1283  
FAX (505-748-9720

Date 6/19/2002

TO: William Olson 476-3462.

FROM: mike Stobblefield

NUMBER OF PAGES 3 (INCLUDING COVER SHEET)

MESSAGE Turner + DeVito DeVito #1 Info.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

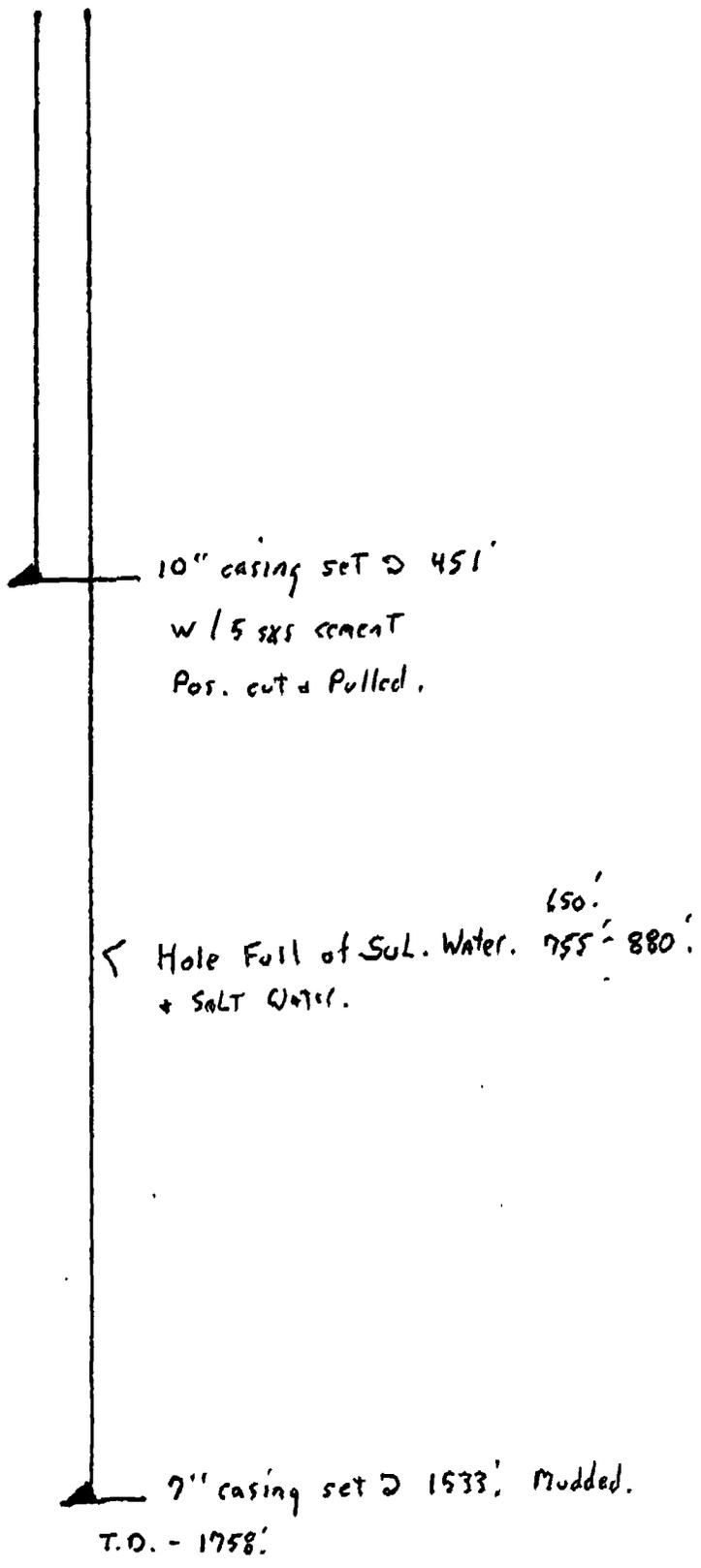




TOPS

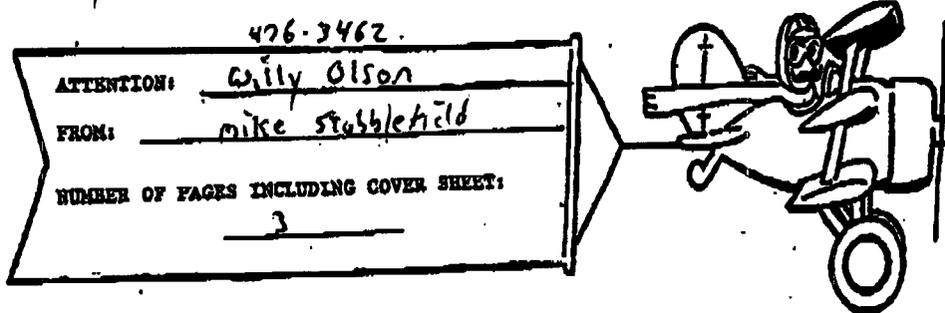
Operator Turner & DeVito  
 Well DeVito #1  
 Unit 0 Section 12 Township 23-S Range 35-E  
 API # 30-015-00136

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. \_\_\_\_\_  
 Abo \_\_\_\_\_  
 Wolfcamp \_\_\_\_\_  
 Morrow \_\_\_\_\_  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other \_\_\_\_\_



# IN COMING!

DATE: 12/28/2001



OIL CONSERVATION DIVISION  
DISTRICT II  
ARTESIA, NM 88210

IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMISSION OR IF YOU DO NOT  
RECEIVE ALL PAGES, PLEASE CALL 505-748-1283.  
FAX NUMBER: (505) 748-9720

Willy

This could be the P.A well due

east of the City Monitor Well #3.

No well file exist - I found only

a Scout Report.

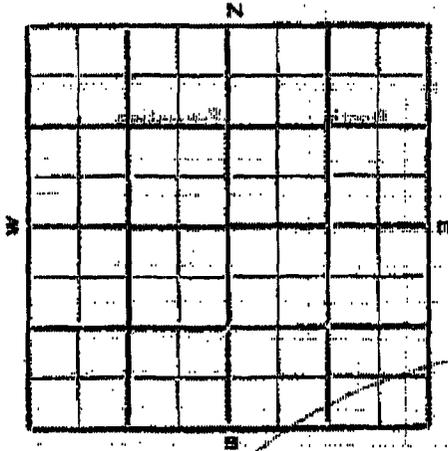
Sulphur Water reported @ 880'?

HAVE A GREAT DAY!

WILD CAT

# SCOUT REPORT NEW MEXICO OIL CONSERVATION COMMISSION

9-A



Company Parmer and De Vito

Farm Name De Vito Well No. 1

Land Classification Government

Sec. 12 Twp. 23 Range 25 County ddy

Feet from Line: N. 330 S. 1650 E.

Elevation \_\_\_\_\_ Method \_\_\_\_\_

Contractor \_\_\_\_\_ Scout \_\_\_\_\_

Spudded 10-11-00 Completed 12-10-00 Initial Production \_\_\_\_\_

Bond Status \_\_\_\_\_

Amount Casing and Cementing Record

Size	Feet	Inches	Sec. Cement
10	157		
7	133		

Tubing Record

Size	Feet	Inches	Sec. Cement

### ACID RECORD

TA
TS
BS
TBS 133
TBL
TWL

Top Pay \_\_\_\_\_ TD \_\_\_\_\_

### SHOOTING RECORD

No. of Quarts	Shot at	Feet
S/O 1100-05 E	S/O	S/O
S/O	S/O	S/O

DATE	TIME	DATE	TIME
10-9-00	10:00 AM		
10-2	10:30 AM		
10-6	11:00 AM		
10-10	11:30 AM		
10-14	12:00 PM		
10-18	12:30 PM		
10-22	1:00 PM		
10-26	1:30 PM		
10-30	2:00 PM		
11-3	2:30 PM		
11-7	3:00 PM		
11-11	3:30 PM		
11-15	4:00 PM		
11-19	4:30 PM		
11-23	5:00 PM		
11-27	5:30 PM		
12-1	6:00 PM		
12-5	6:30 PM		
12-9	7:00 PM		
12-13	7:30 PM		
12-17	8:00 PM		
12-21	8:30 PM		
12-25	9:00 PM		
12-29	9:30 PM		





WELLS IN CITY OF CARLSBAD WELLHEAD PROTECTION AREA

30-015-25379 K-1-23s-25e LOUIS DREYFUS NAT. GAS CORP. SQUAW FED. #3  
ACTIVE

30-015-23106 A-10-23s-25e ENRON OIL & GAS ROCK TANK 10 ST. #1  
P&A

30-015-20785 H-11-23s-25e MINERAL TECH. INC. MARY FED. #1  
ACTIVE

30-015-24942 H-11-23s-25e EXXON CORP. MARY FED. #3  
P&A

30-015-25378 N-11-23s-25e PINON PETRO. INC. MARY FED. #5  
SHUT-IN

30-015-25046 H-11-23s-25e EXXON CORP. MARY FED. #3y  
P&A

30-015-20999 F-12-23s-25e LOUIS DREYFUS NAT. GAS CORP. SQUAW FED. #1  
P&A

30-015-00136 0-12-23s-25e TURNER DEVITO DEVITO #1  
P&A

30-015-24701 G-13-23s-25e EXXON CORP. SQUAW FED. #2  
P&A

30-015-24595 P-13-23s-25e EXXON CORP. NEW MEXICO DS ST. #1  
EXP. DRLG INT

30-015-22430 J-15-23s-25e GULF OIL CORP. SHEARN D FED. COM. #1  
P&A

30-015-24698 A-24-23s-25e EXXON CORP. MARY FED. #2  
EXP. DRLG INT.

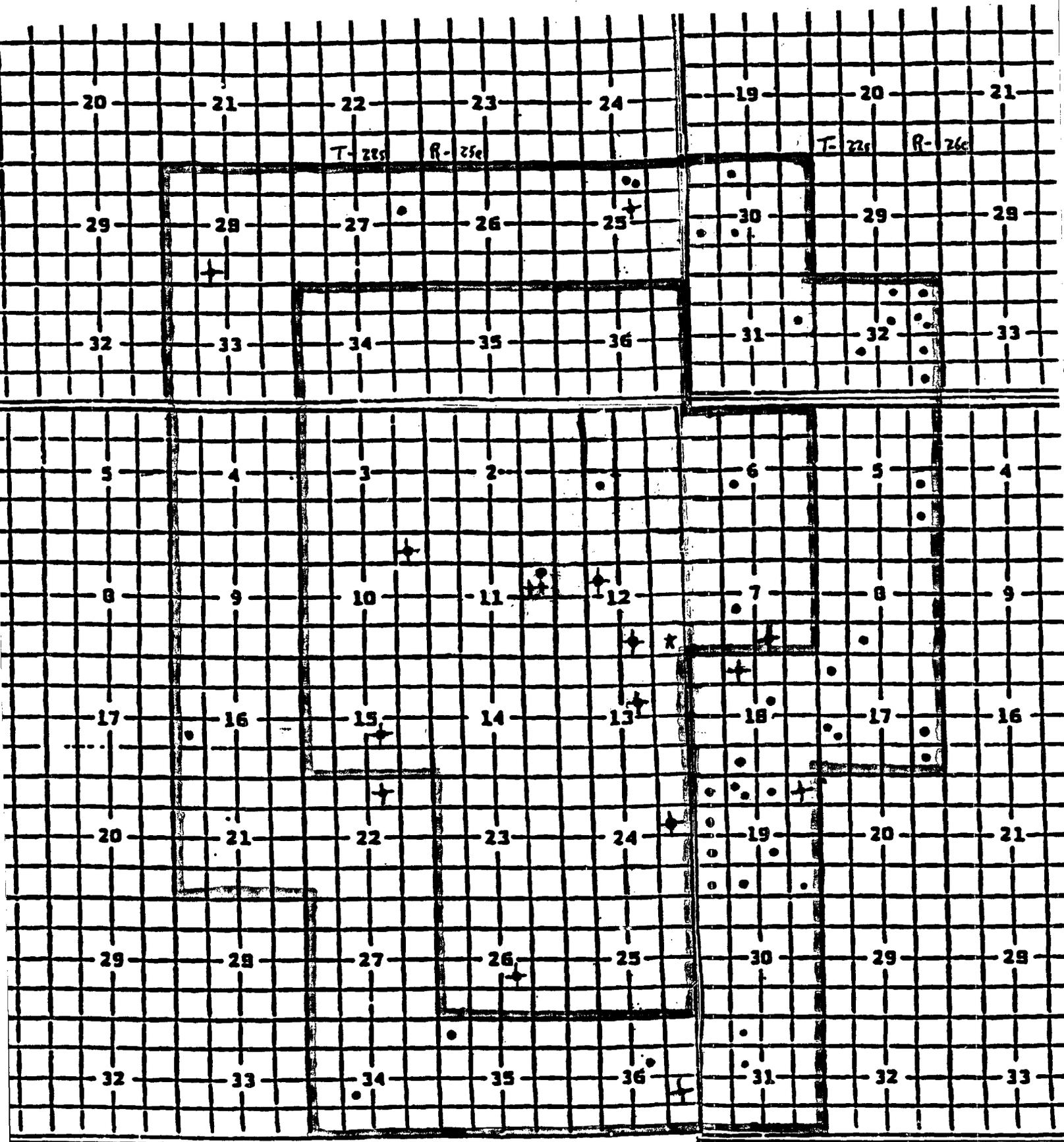
30-015-25135 H-24-23s-25e EXXON CORP. MARY FED. #4  
P&A

30-015-30524 O-25-23s-25e DEVON ENERGY PROD. CO. RUGER 25 FED. #1  
EXP. DRLG INT.

30-015-26975 J-26-23s-25e COLLINS & WARE INC. MULEY FED. #1  
P&A

30-015-21362 K-6-23s-26e CORINNE GRACE CUEVA UNIT #1  
ACTIVE

30-015-21477 O-7-23s-26e EXXON CORP. NEWMAN #1  
P&A



T-235 R-25e

T-235-R-26e

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**SUBMIT IN TRIPPLICATE\***  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

c/s

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<p>1. <input type="checkbox"/> OIL WELL    <input type="checkbox"/> GAS WELL    <input checked="" type="checkbox"/> OTHER</p>		<p>RECEIVED BY OCT - 1 1985</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. NM</p>																								
<p>2. NAME OF OPERATOR Exxon Corporation</p>		<p>O. C. D.</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME --</p>																								
<p>3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702</p>		<p>ARTESIAN</p>	<p>7. UNIT AGREEMENT NAME --</p>																								
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  2479' FSL &amp; 1880' FWL of Sec. (N SW)</p>			<p>8. FARM OR LEASE NAME Squaw Federal</p>																								
<p>14. PERMIT NO.</p>		<p>15. ELEVATIONS (Show whether DF, ST, GR, etc.) 3695' GR</p>	<p>9. WELL NO. 3</p>																								
<p>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</p>			<p>10. FIELD AND POOL, OR WILDCAT Undes. Sheep Draw-Morrow Gas</p>																								
<p>NOTICE OF INTENTION TO:</p> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="width:50%; border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="width:50%; border: none;">CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <input type="checkbox"/></td> </tr> </table> </td> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="width:50%; border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/></td> </tr> </table> </td> </tr> </table> </td> <td style="width:30%; border: none;"> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 1, T23S, R25E</p> </td> </tr> <tr> <td colspan="2" style="vertical-align: top;"> <p>17. 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.)*</p> <p>Spud 26" hole on 9-14-85. Ran 20", 94# conductor pipe to 85'. Cemented w/250 sx ClC and circulated w/no returns. Left 15' cement in conductor. Had good cement 34' from surface. Received approval from BLM to order pea gravel and ready mix. WOC 9 hours before drill out. Lost returns at 203'. Dumped pea gravel down backside of conductor. Obtained approval to use Gear Gum to build visc. pills. Found parted csg. Pulled csg. &amp; left 20' in hole - tagged at 65'. Pumped 100 bbls. 250 visc. pill before running wireline survey. Resumed drilling &amp; lost returns at 544'. Pumped 50 bbls. 150 visc. - no returns. Drilled w/no returns. Set 13-3/8", 54.5# K55 STC at 1510'. Preflushed w/100 sx. ClC. Cemented w/1600 sx Lite C &amp; 300 sx ClC. This was approved by Jim Wright, State Engineer. Notified BLM of temp. survey on 9-21-85. Ran survey &amp; found cement at 950'. Ran 1" tbg. Tagged at 710'. Pumped 150 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 627'. Pumped 3 yards pea gravel &amp; 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 610'. Added 3 yards pea gravel and 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 610'. Pumped 4 yards pea gravel and 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 480'. Pumped 5 yards pea gravel and 100 sx ClC. Pulled 1" tbg. Left 275' in hole. WOC. Ran 1" tbg. Tagged at 480'. Pumped 2-1/2 yards gravel &amp; 100 sx ClC. Pull tbg. &amp; WOC. Ran 1" tbg. Tagged at 60'. Pumped 75 sx ClC - no returns. Pumped 2-1/2 yards pea gravel &amp; 10 sx cmt. Tagged cmt at 1430'. Art Mason from State Engineer's office came by and approved 1" procedure. Resumed drilling.</p> </td> <td style="vertical-align: top;"> <p>12. COUNTY OR PARISH Eddy</p> </td> <td style="vertical-align: top;"> <p>13. STATE NM</p> </td> </tr> </table>		<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="width:50%; border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="width:50%; border: none;">CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <input type="checkbox"/></td> </tr> </table> </td> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="width:50%; border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/></td> </tr> </table> </td> </tr> </table>	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="width:50%; border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="width:50%; border: none;">CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <input type="checkbox"/></td> </tr> </table>	TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="width:50%; border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/></td> </tr> </table>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 1, T23S, R25E</p>	<p>17. 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.)*</p> <p>Spud 26" hole on 9-14-85. Ran 20", 94# conductor pipe to 85'. Cemented w/250 sx ClC and circulated w/no returns. Left 15' cement in conductor. Had good cement 34' from surface. Received approval from BLM to order pea gravel and ready mix. WOC 9 hours before drill out. Lost returns at 203'. Dumped pea gravel down backside of conductor. Obtained approval to use Gear Gum to build visc. pills. Found parted csg. Pulled csg. &amp; left 20' in hole - tagged at 65'. Pumped 100 bbls. 250 visc. pill before running wireline survey. Resumed drilling &amp; lost returns at 544'. Pumped 50 bbls. 150 visc. - no returns. Drilled w/no returns. Set 13-3/8", 54.5# K55 STC at 1510'. Preflushed w/100 sx. ClC. Cemented w/1600 sx Lite C &amp; 300 sx ClC. This was approved by Jim Wright, State Engineer. Notified BLM of temp. survey on 9-21-85. Ran survey &amp; found cement at 950'. Ran 1" tbg. Tagged at 710'. Pumped 150 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 627'. Pumped 3 yards pea gravel &amp; 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 610'. Added 3 yards pea gravel and 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 610'. Pumped 4 yards pea gravel and 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 480'. Pumped 5 yards pea gravel and 100 sx ClC. Pulled 1" tbg. Left 275' in hole. WOC. Ran 1" tbg. Tagged at 480'. Pumped 2-1/2 yards gravel &amp; 100 sx ClC. Pull tbg. &amp; WOC. Ran 1" tbg. Tagged at 60'. Pumped 75 sx ClC - no returns. Pumped 2-1/2 yards pea gravel &amp; 10 sx cmt. Tagged cmt at 1430'. Art Mason from State Engineer's office came by and approved 1" procedure. Resumed drilling.</p>		<p>12. COUNTY OR PARISH Eddy</p>	<p>13. STATE NM</p>
<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="width:50%; border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="width:50%; border: none;">CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <input type="checkbox"/></td> </tr> </table> </td> <td style="width:50%; border: none;"> <table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="width:50%; border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/></td> </tr> </table> </td> </tr> </table>	<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="width:50%; border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="width:50%; border: none;">CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <input type="checkbox"/></td> </tr> </table>	TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="width:50%; border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/></td> </tr> </table>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 1, T23S, R25E</p>						
<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">PULL OR ALTER CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREAT <input type="checkbox"/></td> <td style="width:50%; border: none;">MULTIPLE COMPLETE <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOT OR ACIDIZE <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDON* <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">REPAIR WELL <input type="checkbox"/></td> <td style="width:50%; border: none;">CHANGE PLANS <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <input type="checkbox"/></td> </tr> </table>	TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		<table style="width:100%; border: none;"> <tr> <td style="width:50%; border: none;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width:50%; border: none;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">FRACTURE TREATMENT <input type="checkbox"/></td> <td style="width:50%; border: none;">ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td style="width:50%; border: none;">SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td style="width:50%; border: none;">ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td colspan="2" style="border: none;">(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/></td> </tr> </table>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/>									
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>																										
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>																										
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>																										
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>																										
(Other) <input type="checkbox"/>																											
WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																										
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>																										
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>																										
(Other) <u>Spud/Casing Report</u> <input checked="" type="checkbox"/>																											
<p>17. 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.)*</p> <p>Spud 26" hole on 9-14-85. Ran 20", 94# conductor pipe to 85'. Cemented w/250 sx ClC and circulated w/no returns. Left 15' cement in conductor. Had good cement 34' from surface. Received approval from BLM to order pea gravel and ready mix. WOC 9 hours before drill out. Lost returns at 203'. Dumped pea gravel down backside of conductor. Obtained approval to use Gear Gum to build visc. pills. Found parted csg. Pulled csg. &amp; left 20' in hole - tagged at 65'. Pumped 100 bbls. 250 visc. pill before running wireline survey. Resumed drilling &amp; lost returns at 544'. Pumped 50 bbls. 150 visc. - no returns. Drilled w/no returns. Set 13-3/8", 54.5# K55 STC at 1510'. Preflushed w/100 sx. ClC. Cemented w/1600 sx Lite C &amp; 300 sx ClC. This was approved by Jim Wright, State Engineer. Notified BLM of temp. survey on 9-21-85. Ran survey &amp; found cement at 950'. Ran 1" tbg. Tagged at 710'. Pumped 150 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 627'. Pumped 3 yards pea gravel &amp; 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 610'. Added 3 yards pea gravel and 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 610'. Pumped 4 yards pea gravel and 100 sx ClC. Pulled tbg. &amp; WOC. Ran 1" tbg. Tagged at 480'. Pumped 5 yards pea gravel and 100 sx ClC. Pulled 1" tbg. Left 275' in hole. WOC. Ran 1" tbg. Tagged at 480'. Pumped 2-1/2 yards gravel &amp; 100 sx ClC. Pull tbg. &amp; WOC. Ran 1" tbg. Tagged at 60'. Pumped 75 sx ClC - no returns. Pumped 2-1/2 yards pea gravel &amp; 10 sx cmt. Tagged cmt at 1430'. Art Mason from State Engineer's office came by and approved 1" procedure. Resumed drilling.</p>		<p>12. COUNTY OR PARISH Eddy</p>	<p>13. STATE NM</p>																								

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

SIGNED Melba Ruppeling TITLE Unit Head

DATE 9-19-85

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

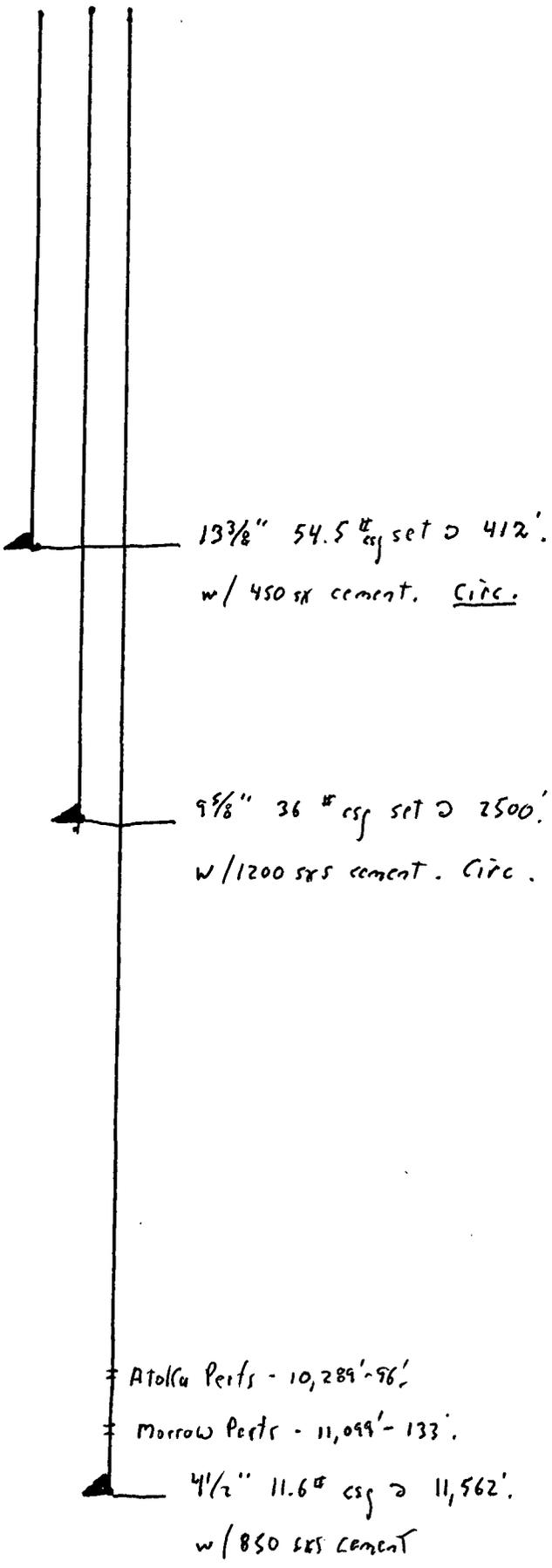
*Approved*  
*D*

\*See Instructions on Reverse Side

Operator Enron Oil + GAS Co.  
 Well Rock Tank 10 ST. #1  
 Unit A Section 10 Township 23S Range 25E  
 API # 30-015 -- 23106

TOPS

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. 4735'  
 Abo \_\_\_\_\_  
 Wolfcamp 8403'  
 Morrow 10,481'  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other T. Delaware 2492'  
 \_\_\_\_\_  
 \_\_\_\_\_

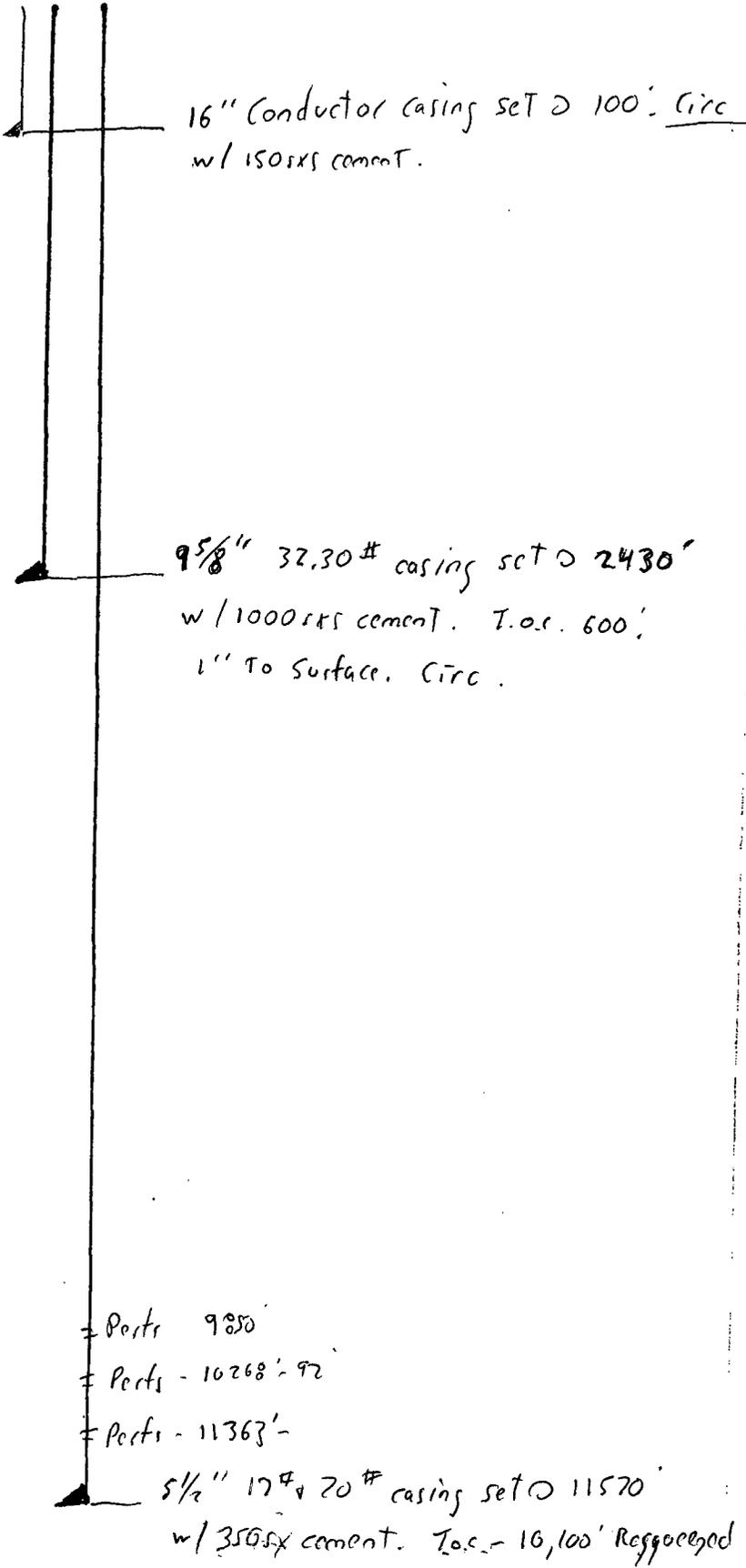


History  
 Well was spudded + Drilled 2/11/1980.  
 Well was plugged 12/3/1980'

Operator Minerals Tech. Inc.  
 Well Mary Fed. #1  
 Unit H Section 11 Township 23S Range 25E  
 API # 30-0

TOPS

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. 4952'  
 Abo \_\_\_\_\_  
 Wolfcamp 8542'  
 Morrow 10710'  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other T. Delaware - 2300'



16" Conductor casing set @ 100' Circ  
 w/ 150 sxs cement.

9 5/8" 32.30# casing set @ 2430'  
 w/ 1000 sxs cement. T.o.s. 600'  
 1" To Surface. Circ.

= Perfs 9850'  
 = Perfs - 10268' - 92'  
 = Perfs - 11363' -

5 1/2" 17# 20# casing set @ 11570'  
 w/ 350 sxs cement. T.o.s. - 16,100' Reggeoped 9870' w/ 250 sxs cement.

History

Well was spud & Drilled 1/20/1973.  
 Well TDed 11,570'. Plugged & Aban. 3/5/1973.  
 8/4/1973 well Drilled out.  
 5 1/2" casing set @ 11,570'.

Form 9-331 (May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN THE MANNER INDICATED (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 0426782

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Sheep Draw

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 11-23S-25E NMPM

12. COUNTY OR PARISH 13. STATE

Eddy New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [ ] GAS WELL [X] OTHER [ ]

2. NAME OF OPERATOR Hanagan Petroleum Corporation

3. ADDRESS OF OPERATOR P. O. Box 1737 - Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface

1980' FNL and 660' FEL

RECEIVE

FEB 2 1973

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, OR, etc.) 3724' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF [ ]

PULL OR ALTER CASING [ ]

WATER SHUT-OFF [X]

REPAIRING WELL [ ]

FRACTURE TREAT [ ]

MULTIPLE COMPLETE [ ]

FRACTURE TREATMENT [ ]

ALTERING CASING [ ]

SHOOT OR ACIDIZE [ ]

ABANDON\* [ ]

SHOOTING OR ACIDIZING [ ]

ABANDONMENT\* [ ]

REPAIR WELL [ ]

CHANGE PLANS [ ]

(Other) Spud [X]

(Other)

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

17. 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.)

- 1-20-73 Spud 12:30 a.m. Moranco Contractor.
1-21-73 TD 100' - 20" hole. Ran 3 jts 16" 42# csg set w/150 sx Class C 1/4# flocele & 2% CaCl, plug down 10:45 a.m., cement circulated.
1-25-73 TD 2430' (14 3/4" & 12 1/4" hole) Ran 80 jts 32.30# H-40 9 5/8" cs set at 2430', cmt w/850 sx Howco light 5# gilsonite 1/4# flocele & 2% CaCl & 150 sx Class "c" 1/4# flocele & 2% CaCl, plug down 1:10 p.m.
Plug #1 - 35 sx Class "c" 4% CaCl. Top cement @ 625'.
#2 - 35 sx Class "c" 4% CaCl.
#3 - 50 sx Class "c" 4% CaCl. Top cement @ 610'.
#4 - 35 sx Class "c" 4% CaCl. Top cement @ 610'.
#5 - 35 sx Howco Special Thixomix
#6 - 35 sx Class "c" 4% CaCl. Top cement @ 395'. Pump
#7 - 35 sx Class "c" 4% CaCl. Top cement 330'
#8 - 30 sx Class "c" 4% CaCl. Top cement 270'. No fluid in hole.

(continued over)

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

SIGNED M.L. Southerland

M. L. Southerland Agent

DATE Jan. 29, 1973

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

FEB - 1 1973

R. L. BECKMAN

ACTING DISTRICT ENGINEER

TITLE

DATE

\*See instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1963-O-685228

947-485

Ran 14 yards Ready Mix, circ., completed @ 10:00 p.m.  
1-26-73.

1-27-73 Drilled plug @ 3:00 p.m. 1-27-73 - WOC 50 hours  
press up 2000# 30 min. No press drop.

Operator Exxon Corp.  
Well Mary Fed. #3  
Unit #      Section 11 Township 23S Range 25E  
API # 30-015-24942

Yates \_\_\_\_\_  
T. Salt \_\_\_\_\_  
B. Salt \_\_\_\_\_  
Gloria \_\_\_\_\_  
Bone Sp. \_\_\_\_\_  
Abo \_\_\_\_\_  
Wolfcamp \_\_\_\_\_  
Morrow \_\_\_\_\_  
Devonian \_\_\_\_\_  
Fusselman \_\_\_\_\_  
Other \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8 5/8" 24 # csg set @ 1432'  
w/ 836 lbs cement, 1" to surface. w/ 3000 ft.

History

Well was spudded + Drilled " 8/14/1984.  
Well Plugged 8/19/1984. TO. 1750'

November 1983)  
Formerly 9-331)

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

EXPIRES IN APPLICATION  
(Other instructions on re-  
verse side)

Expires August 31, 1985

41

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> P & A - Fish In Hole		RECEIVED BY	
2. NAME OF OPERATOR Exxon Corporation		SEP 24 1984	
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702		O. C. D. ARTESIA OFFICE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1925' FNL and 810' FEL of Section (SE/NE)		10. FIELD AND POOL, OR WILDCAT Wildcat - <i>Dolanore</i>	
14. PERMIT NO. 30-015-24242		15. ELEVATIONS (Show whether DF, ST, GR, etc.) 3738.4' GR	
		12. COUNTY OR PARISH Eddy	13. STATE New Mexico
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 11 - 23S - 25E			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input checked="" type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

WATER SHUT-OFF	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
FRACTURE TREATMENT	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
SHOOTING OR ACIDIZING	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		<input type="checkbox"/>

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

17. 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.)\*

8-8-84 Spud 12-1/4" hole @ 1130 hrs.

8-14-84 Set 34 jts. 8-5/8"/K55/24# csg. @ 1432'. Cement w/ 836 sx Pacesetter lite. Did not circ. to surface. Ran 1" to 440'. Cement w/ 300 sx ClC. Circ. to surface. WOC. 58 hrs. before drill out. Test casing to 1000 psi for 30 min. Held OK.

8-19-84 Set lost circ. plug @ 1750' w/ 300 sx ClH and @ 1640' w/ 200 sx ClC. Could not pull all of the drill pipe.

Fish in hole consists of 468' of drill pipe @ 1169 - 1638. Wash over fish. RU wireline. Fire two rattle shots @ 1355 - 1453 and 1255 - 1355. Rec. 2 jts. TOF @ 1233. Milling. Set plug @ 1183' - 1233' w/40 sx ClC and 0 - 50' w/ 40 sx ClC on 8-25-84. Will skid rig 15' NW to Mary Federal 3Y.

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

SIGNED Melba Knippling TITLE Unit Head DATE 9-11-84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE AREA MANAGER DATE 9-21-84  
CARLSBAD RESOURCE AREA

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.

NM-0426782

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

--

7. UNIT AGREEMENT NAME

--

8. FARM OR LEASE NAME

Mary Federal

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

Wildcat - *Delaware*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

11-23S-25E

1. OIL WELL  GAS WELL  OTHER  P & A - Fish In Hole

2. NAME OF OPERATOR  
Exxon Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

1925' FNL and 810' FEL of Section (SE/NE)

14. PERMIT NO.  
30-015-24242

15. ELEVATIONS (Show whether DF, ST, GR, etc.)  
3738.4' GR

12. COUNTY OR PARISH  
Eddy

13. STATE  
New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. 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.)\*

The above well was plugged and abandoned 8-25-84 as follows:

1183 - 1233' w/ 40 sx C1C

0 - 50' w/ 40 sx C1C

This well was plugged because of a fish consisting of 468' of drill pipe was stuck in the hole. The rig was skidded 15' NW to the Mary Federal #3Y.

*TD-1891*

*Post ID-2  
9-28-84  
p4A*

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

SIGNED *Melva Knippling*

TITLE Unit Head

DATE 9-11-84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE AREA MANAGER  
GULF COAST RESOURCE AREA

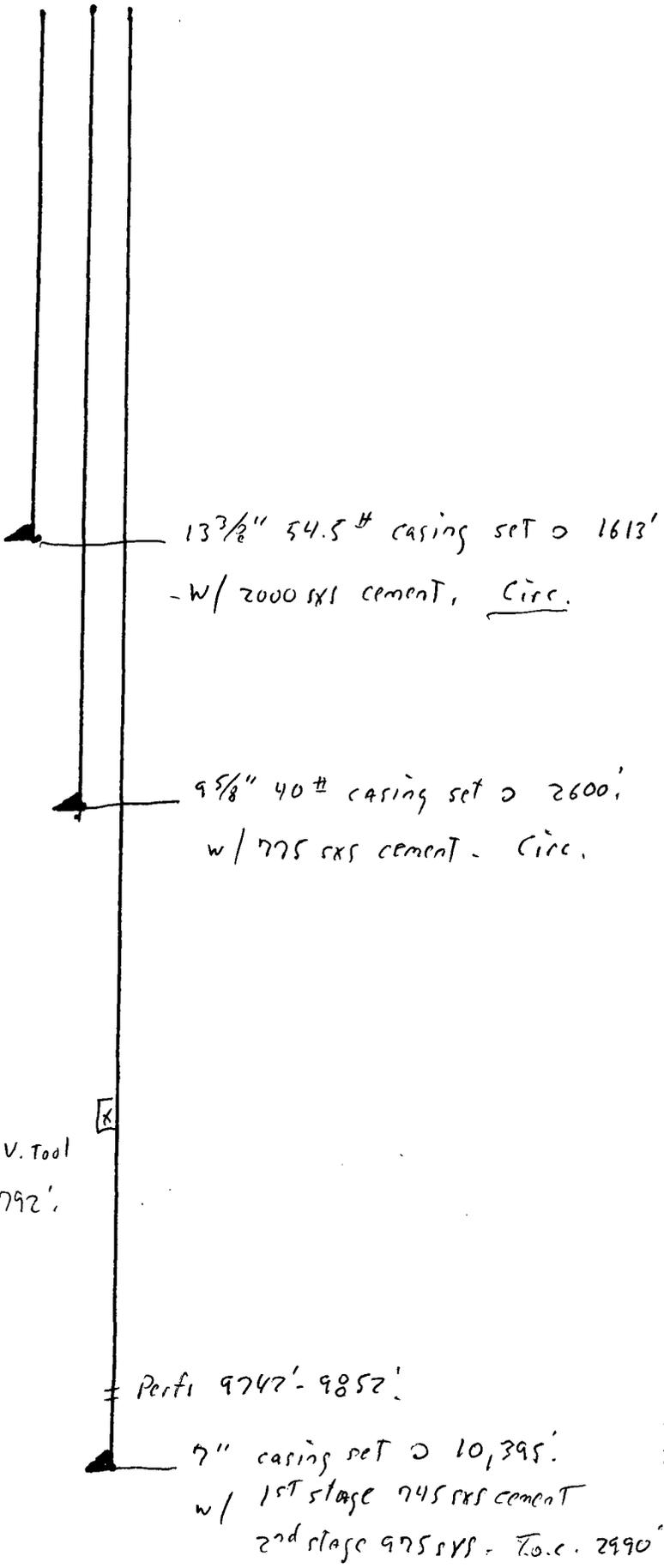
DATE *9-21-84*

\*See Instructions on Reverse Side

Operator Mineral Technologies Inc.  
 Well Mary Fed #5  
 Unit N Section 11 Township 23S Range 25E  
 API # 30-0

TOPS

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. 4966'  
 Abo \_\_\_\_\_  
 Wolfcamp 8749'  
 Morrow \_\_\_\_\_  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other T. Delaware 1400'



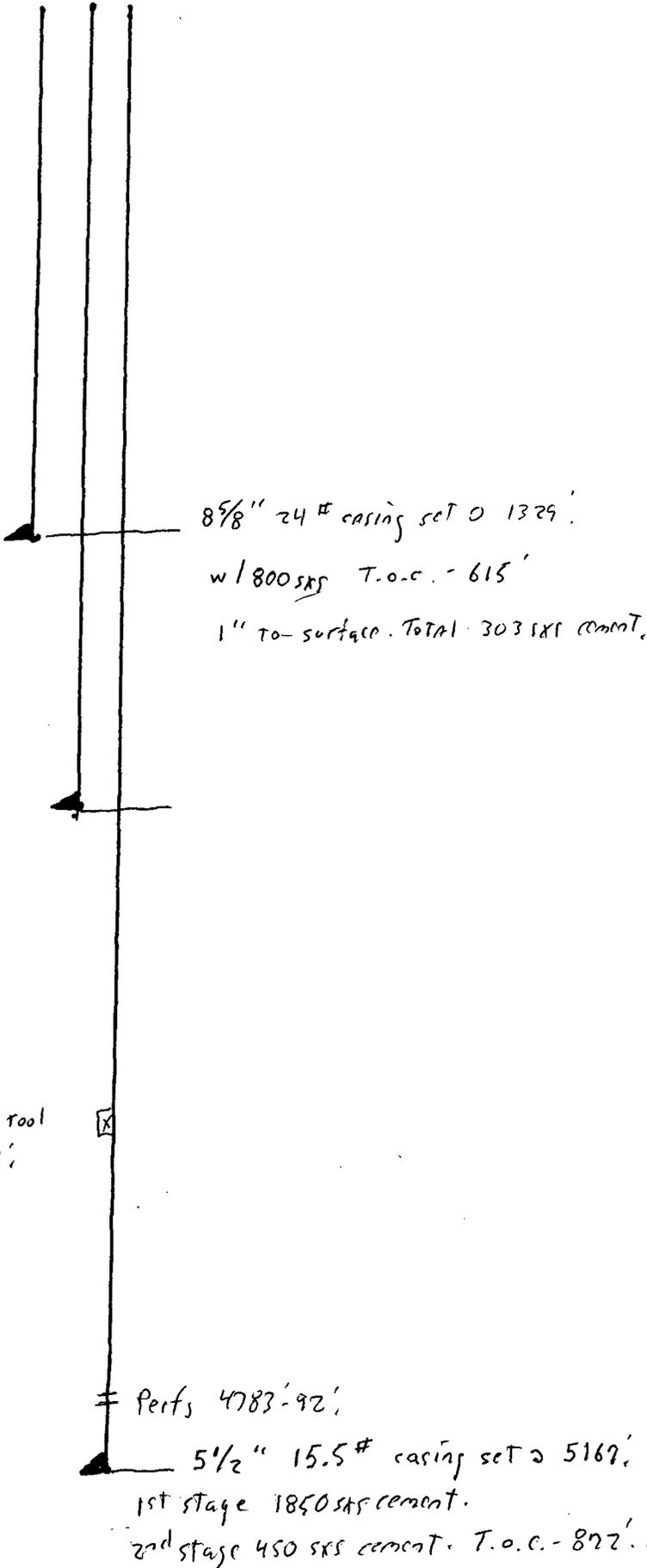
History

Well was spudded & Drilled 9/12/1985  
 Dear Dum used as Hole swipe -  
 Lost Circ. Plugs set @ 305-250', 250'-131'  
 Total 400 sxs cement.

Operator Exxon Corp.  
 Well Mary Fed. #31  
 Unit H Section 11 Township 23S Range 25E  
 API # 30-015-25046

TOPS

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. \_\_\_\_\_  
 Abo \_\_\_\_\_  
 Wolfcamp \_\_\_\_\_  
 Morrow \_\_\_\_\_  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



History

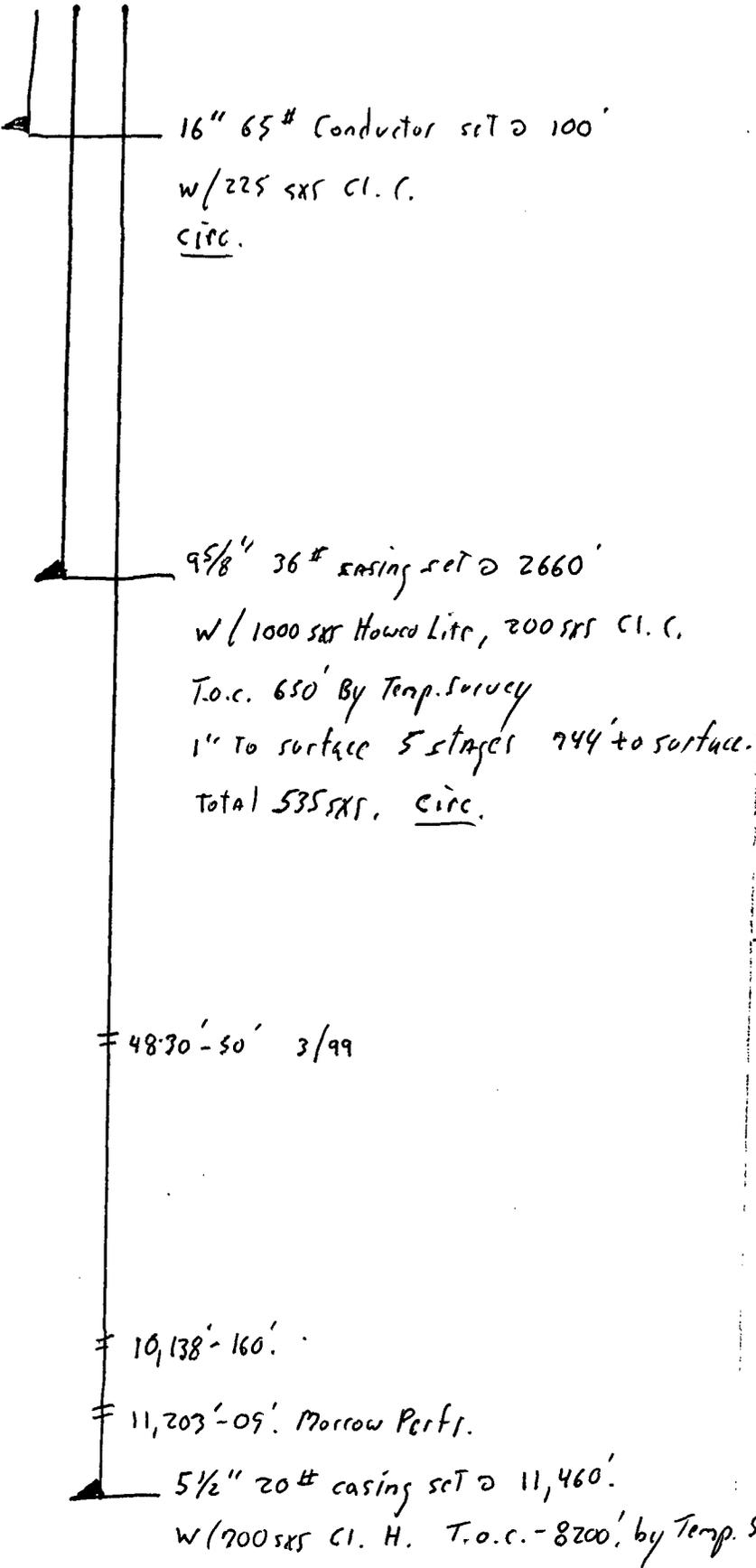
Well was spudded + Drilled. 8/29/1984.

Well was plugged 1/2/1985.

Operator Louis Dreyfus Natural Gas Corp.  
 Well Squaw Fed. #1  
 Unit F Section 12 Township 23-S Range 25-E  
 API # 30-015-20999

TOPS

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. \_\_\_\_\_  
 Abo \_\_\_\_\_  
 Wolfcamp 8410'  
 Morrow 10579'  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other \_\_\_\_\_



History

Well was spudded + Drilled 10/31/1923  
 C.T. 0-105' + Rotary to TD.

= 4830'-50' 3/99

= 10,138'-160'

= 11,203'-09' Morrow Perfs.

5 1/2" 20# casing set @ 11,460'  
 W/700 SXS CI. H. T.O.C. - 8200' by Temp. Survey.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 02 1992

G.C.D.  
CARRILLO

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

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

EXXON CORPORATION ATTN: REGULATORY AFFAIRS ✓

3. Address and Telephone No.

P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7532

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

SE4 NW4, 1980' FNL & 1980' FWL, SEC 12, T23S R25E

5. Lease Designation and Serial No.

NM-0453201

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
SQUAW FEDERAL  
1

9. API Well No.

3001520999

10. Field and Pool, or Exploratory Area

SHEEP DRAW STRAWN

11. County or Parish, State

EDDY NM

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" 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
	<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

**CONTINUE WELL IN SI STATUS**  
(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.)

WELL HAS BEEN SI SINCE JANUARY, 1992 BUT IS STILL CAPABLE OF PRODUCING IN PAYING QUANTITIES AND CAN BE RETURNED TO BENEFICIAL USE. IT IS REQUESTED THAT WELL REMAIN SI. JIM AMOS, CARLSBAD BLM, ADVISED THIS DATE THAT WE WOULD NOT HAVE TO COMPLY WITH BLM LETTER DATED 7-24-92 REQUIRING WELL TO BE TA. (COPY OF LETTER IS ATTACHED) THIS SN IS SUBMITTED TO CONFIRM MY DISCUSSION ON THE ABOVE WITH JIM AMOS AND TO AVOID THE ISSUANCE OF AN INCIDENT OF NONCOMPLIANCE.

APPROVED FOR 5 MONTH PERIOD

ENDING 12/31/92

RECEIVED  
AUG 7 10 59 AM '92  
CARLSBAD DISTRICT OFFICE  
AREA HEADQUARTERS

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

Signed

*Alex M. Correa*

Title

Alex M. Correa  
Administrative Specialist

Date

08/05/92

(This space for Federal of State office use)

Approved by

Title

Date

8/20/92

Conditions of approval, if any:

N. M. Oil Cons. Division

811 S. 1ST ST.

ARTESIA, NM 87010-0504

C19-10

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

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

Louis Dreyfus Natural Gas Corp.

3. Address and Telephone No.

14000 Quail Sprgs. Pkwy., Oklahoma City, OK 73134 (405) 749-1300

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

1980' FNL & 1980' FWL, Sec. 12, T-23-S, R-25-E

5. Lease Designation and Serial No.

NMNM 0453201

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Squaw Federal #1

9. API Well No.

30-015-20999

10. Field and Pool, or Exploratory Area

Sheep Draw Strawn

11. County or Parish, State

Eddy County, NM

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

TYPE OF SUBMISSION

- Notice of Intent
Subsequent Report
Final Abandonment Notice

TYPE OF ACTION

- Abandonment
Recompletion
Plugging Back
Casing Repair
Altering Casing
Other

- Change of Plans
New Construction
Non-Routine Fracturing
Water Shut-Off
Conversion to Injection
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.)\*

- (1) Set 5-1/2" CIBP @9630', dumpbailer 4 sx cmt. 35' on 6-25-01.
(2) 6-25-01 Circulation w/ mud gel.
(3) 6-26-01 Cut 5-1/2" casing @ 8047', spot 35 sx cmt. from 8100' to 7950', WOC & tag @ 7942'.
(4) 6-27-01 Spot 35 sx cmt. from 6550' - 6400', no tag.
(5) 6-27-01 Spot 40 sx cmt. from 4810' - 4670', WOC & tag @ 4694'.
(6) 6-27-01 Spot 40 sx cmt. from 2710' - 2601', WOC & tag @ 2573'.
(7) 6-28-01 Spot 40 sx cmt. from 230' - 121', no tag.
(8) 6-28-01 Spot 20 sx cmt. from 50' to surface:

Post P&H

APPROVED JUL 13 2001 GARY GOURLEY PETROLEUM ENGINEER

RECEIVED JUL 2001 OCD - ARTESIA

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

Signed [Signature] Title Agent

Date 06/29/01

(This space for Federal or State office use)

Approved by Conditions of approval, if any: Title Date

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.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM CONS COMMISSION FORM APPROVED  
Drawer DD Budget Bureau No. 1004-0135  
Artesia, NM Expires: March 31, 1993

Lease Designation and Serial No.  
NM 0453201

**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  
 Louis Dreyfus Natural Gas, Corp.

3. Address and Telephone No. 14000 Quail Springs Pkwy., Suite 600  
 Oklahoma City, OK 73134

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1980' FNL & 1980' FWL  
 Sec 12, T-23S, R-25E

6. If Indian, Allottee or Tribe Name

7. If Unit or CA. Agreement Designation

8. Well Name and No.  
 Squaw Fed #1

9. API Well No.  
 30-015-20999

10. Field and Pool, or Exploratory Area  
 Sheep Draw Strawn

11. County or Parish, State  
 Eddy NM

13. 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 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>H2S Report</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 for-

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 gr. give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

In compliance with Onshore Order No 6  
This well produces no Hydrogen Sulfide



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

Signed [Signature] Title Environmental & Safety Director Date 2-2-95

(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.

\*See Instruction on Reverse Side

BR

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT - 9 1992

O. C. D.  
ABTEGIA

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

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  
**EXXON CORPORATION ATTN: REGULATORY AFFAIRS**

3. Address and Telephone No.  
**P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7532**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SE4 NW4, 1980' FNL & 1980' FWL, SEC 12, T23S R25E**

5. Lease Designation and Serial No.  
**NM 0453201**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**SQUAM FEDERAL 1**

9. API Well No.  
**3001520999**

10. Field and Pool, or Exploratory Area  
**SHEEP DRAW STRAWN**

11. County or Parish, State  
**EDDY NM**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" 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
	<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

**CONTINUE WELL IN SI STATUS**  
(Note: Report results of multiple completion on Well Completion, 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 to be plugged, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**PROVIDE ADDITIONAL INFO. AS REQUESTED BY DUNCAN WHITLOCK ON 8-31-92. PROVIDING THIS INFO. SHOULD CAUSE THE INCIDENCE OF NONCOMPLIANCE TO BE WITHDRAWN.**

**THIS WELL IS SHUTIN DUE TO HIGH H2S CONTENT. (SI IN JAN., 1992) THIS WELL IS CAPABLE OF PRODUCING IN PAYING QUANTIES AND IS EXPECTED TO BE RETURNED TO PRODUCTION BEFORE THE END OF 1992. WE BELIEVE THE MECHANICAL INTEGRITY OF THE WELL TO BE AS GOOD AS WHEN IT WAS SI. WE DISCUSSED N.M. RULE 201-B-3 AS THE BASIS TO REQUEST THAT THIS WELL BE ALLOWED TO BE SI AND THAT THE INCIDENCE OF NONCOMPLIANCE BE WITHDRAWN.**

SI/TA STATUS APPROVED  
ON 8/28/92 (SEE SUNDRY DATED 8/5/92).  
AR

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

Signed Alex M. Correa Title Administrative Specialist Date 09/04/92

(This space for Federal or State office use)

Approved by 71002 Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

Copy to SF

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR: Hanagan Petroleum Corporation NOV 30 1973

3. ADDRESS OF OPERATOR: P. O. Box 1737, Roswell, New Mexico 88201 D. O. O.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1980' FNL & FWL

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: Squaw

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA: 12-23S-25E

12. COUNTY OR PARISH: Eddy 13. STATE: N.M.

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3540' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Spud	

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

17. 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.)\*

10/31/73: Moved in cable tools, spud @ 12:00 PM.

11/14/73: TD 105', moved in rotary rig, began drlg. operations w/rotary @ 11:15

11/17/73: TD 425' lm., reamed out 20" hole 0 to 100', drld. 14-3/4" hole from 10 to 425', no loss circulation to this point, ran 3jts. 16" ST&C 65# csg. (meas. 110') set @ 100' & cem. w/225 sx Class C 2% CaCl, plug down 6:30 AM 11/17/73, cmt. circ. w/75 sx. excess, 1.32 slurry vol. cu. ft./sx. 75° temp. when slurry mixed, est. fm. temp. 75°, compressive strength 565#, tested csg. 500#/30", no press. drop, drld. plug 6:30 PM 11/17/73, WOC 12 hrs.

11/20/73: TD 2660' sd. & lm (14-3/4" & 12-1/4" hole), Ran 59 jts. 9-5/8" K55 ST&C 36# csg. set @ 2660' & cmt. w/1000 sx. Howco Light 5# gilsonite, 1/4# flocel 2 CaCl + 200 sx. Class C 1/4# flocel 2% CaCl, plug down 12:45 AM 11/21/73, did no circ. Ran temp. survey T/cmt. 650', w/1" tbg. tag top cmt. @ 744' and circ. cm as follows, all cmt. used Class C 4%CaCl:  
1st batch @ 744' w/25 sx (32' fill), 2nd @ 712' w/100 sx (128' fill), 3rd @ 584 w/100 sx (143' fill), 4th @ 441' w/100 sx (160' fill), 5th @ 281' w/210 sx (circ. est 60 sx. excess) cmt. circ., job completed @ 8:00 PM (11/21/73). Pres up csg. 1500#/30", no press. drop. Began making new hole @ 11:30 AM 11/22/73.

RECEIVED

NOV 28 1973

U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

SIGNED Hugh E. Hanagan TITLE Vice President DATE 11/27/73

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY  
NOV 29 1973  
H. L. BEEKMAN  
ACTING DISTRICT ENGINEER

N. M. Oil Cons. Division

811 S. 1ST ST.

ARTESIA, NM 88210-2834

01910

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

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

Louis Dreyfus Natural Gas Corp.

3. Address and Telephone No.

14000 Quail Sprgs. Pkwy., Oklahoma City, OK 73134 (405) 749-1300

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

1980' FNL & 1980' FWL, Sec. 12, T-23-S, R-25-E

5. Lease Designation and Serial No.

NMNM 0453201

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Squaw Federal #1

9. API Well No.

30-015-20999

10. Field and Pool, or Exploratory Area

Sheep Draw Strawn

11. County or Parish, State

Eddy County, NM

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 checked="" 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 type="checkbox"/> Other
	<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.)

- (1) Set 5-1/2" CIBP @9630', dumpbailer 4 sx cmt. 35'on 6-25-01.
- (2) 6-25-01 Circulation w/ mud gel.
- (3) 6-26-01 Cut 5-1/2" casing @ 8047', spot 35 sx cmt. from 8100' to 7950', WOC & tag @ 7942'.
- (4) 6-27-01 Spot 35 sx cmt. from 6550' - 6400', no tag.
- (5) 6-27-01 Spot 40 sx cmt. from 4810' - 4670', WOC & tag @ 4694'.
- (6) 6-27-01 Spot 40 sx cmt. from 2710' - 2601', WOC & tag @ 2573'.
- (7) 6-28-01 Spot 40 sx cmt. from 230' - 121', no tag.
- (8) 6-28-01 Spot 20 sx cmt. from 50' to surface.

Post Pkt

APPROVED  
JUL 13 2001  
GARY GOURLEY  
PETROLEUM ENGINEER

JUL 2001  
RECEIVED  
OCD - ARTESIA

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

Signed [Signature] Title Agent Date 06/29/01

(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.

\*See Instruction on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
OCT - 9 1992  
O. C. D.  
ARTESIA RESERVE

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

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  
**EXXON CORPORATION ATTN: REGULATORY AFFAIRS**

3. Address and Telephone No.  
**P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7532**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**SE4 NW4, 1980' FNL & 1980' FWL, SEC 12, T23S R25E**

5. Lease Designation and Serial No.

**NM 0453201**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**SQUAM FEDERAL  
1**

9. API Well No.  
**3001520999**

10. Field and Pool, or Exploratory Area  
**SHEEP DRAW STRAWN**

11. County or Parish, State  
**EDDY NM**

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" 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
	<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

**CONTINUE WELL IN SI STATUS**

(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 drilled or reworked, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

**PROVIDE ADDITIONAL INFO. AS REQUESTED BY DUNCAN WHITLOCK ON 8-31-92. PROVIDING THIS INFO. SHOULD CAUSE THE INCIDENCE OF NONCOMPLIANCE TO BE WITHDRAWN.**

**THIS WELL IS SHUTIN DUE TO HIGH H2S CONTENT. (SI IN JAN., 1992)  
THIS WELL IS CAPABLE OF PRODUCING IN PAYING QUANTITIES AND IS EXPECTED TO BE RETURNED TO PRODUCTION BEFORE THE END OF 1992.  
WE BELIEVE THE MECHANICAL INTEGRITY OF THE WELL TO BE AS GOOD AS WHEN IT WAS SI.  
WE DISCUSSED N.M. RULE 201-B-3 AS THE BASIS TO REQUEST THAT THIS WELL BE ALLOWED TO BE SI AND THAT THE INCIDENCE OF NONCOMPLIANCE BE WITHDRAWN.**

SI/TA STATUS APPROVED  
ON 8/28/92 (SEE SUNDRY DATED 8/5/92)  
AR

14. I hereby certify that the foregoing is true and correct.  
Signed Alex M. Correa Title Administrative Specialist Date 09/04/92

(This space for Federal or State office use)  
Approved by [Signature] Title [Signature] Date \_\_\_\_\_  
Conditions of approval, if any: OCT 7 1992

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Squaw

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undesignated

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA

12-23S-25E

12. COUNTY OR PARISH

Eddy

13. STATE

N.M.

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Hanagan Petroleum Corporation

NOV 30 1973

3. ADDRESS OF OPERATOR  
P. O. Box 1737, Roswell, New Mexico 88201 O. C. C.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

1980' FNL & FWL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3540' KB

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT ON:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

Spud

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

17. 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.)\*

10/31/73: Moved in cable tools, spud @ 12:00 PM.  
11/14/73: TD 105', moved in rotary rig, began drlg. operations w/rotary @ 11:15  
11/17/73: TD 425' lm., reamed out 20" hole 0 to 100', drld. 14-3/4" hole from 10 to 425', no loss circulation to this point, ran 3jts. 16" ST&C 65# csg. (meas. 110') set @ 100' & cem. w/225 sx Class C 2% CaCl, plug down 6:30 AM 11/17/73, cmt. circ. w/75 sx. excess, 1.32 slurry vol. cu. ft./sx. 75° temp. when slurry mixed, est. fm. temp. 75°, compressive strength 565#, tested csg. 500#/30", no press. drop, drld. plug 6:30 PM 11/17/73, WOC 12 hrs.  
11/20/73: TD 2660' sd. & lm (14-3/4" & 12-1/4" hole), Ran 59 jts 9-5/8" K55 ST& 36# csg. set @ 2660' & cmt. w/1000 sx. Howco Light 5# gilsonite, 1/4# flocel 2 CaCl + 200 sx. Class C 1/4# flocel 2% CaCl, plug down 12:45 AM 11/21/73, did no circ. Ran temp. survey T/cmt. 650', w/1" tbg. tag top cmt. @ 744' and circ. cm as follows, all cmt. used Class C 4%CaCl:  
1st batch @ 744' w/25 sx (32' fill), 2nd @ 712' w/100 sx (128' fill), 3rd @ 584 w/100 sx (143' fill), 4th @ 441' w/100 sx (160' fill), 5th @ 281' w/210 sx (circ. est 60 sx. excess) cmt. circ., job completed @ 8:00 PM (11/21/73). Pres up csg. 1500#/30", no press. drop. Began making new hole @ 11:30 AM 11/22/73.

RECEIVED

NOV 28 1973

U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

SIGNED

Hugh C. Hanagan

TITLE

Vice President

DATE

11/27/73

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED BY  
NOV 29 1973  
H. C. BEEKMAN  
ACTING DISTRICT ENGINEER

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RECEIVED <sup>Form C-34</sup> <sub>Revised 10-1-78</sub>  
SEP 21 1984  
O. C. D.  
ARTESIA, OFFICE

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	✓
FILE	✓✓
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL ✓ GAS ✓
OPERATOR	✓

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

I. OPERATOR OFFICE

Operator: EXXON CORPORATION

Address: BOX 1600, MIDLAND, TEXAS 79702

Reason(s) for filing (Check proper box)

New Well	<input type="checkbox"/>	Change in Transporter of:		Other (Please explain)	
Recompletion	<input checked="" type="checkbox"/>	Oil	<input type="checkbox"/>	PLUG BACK - RECOMPLETE	
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>	IN STRAWN 10, 138-10160	
		Dry Gas	<input type="checkbox"/>		
		Condensate	<input type="checkbox"/>		

If change of ownership give name and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name: SDV LAW FEDERAL Well No.: 1 Pool Name, including Formation: Sheep Draw Strawn  
UNDESIGNATED SOUTH CARLSBAD STRAWN Kind of Lease: NM 0453201 State, Federal or Fee

Location: Unit Letter F: 1980 Feet From The NORTH Line and 1980 Feet From The WEST Line of Section 12 Township 23-S Range 25-E, NMPM, EDDY Co.

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>NAVATO CRUDE OIL PURCHASING CO.</u>	<u>P.O. Box 159, ARTESIA, N.M. 88210</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>TRANSWESTERN PIPE LINE CO.</u>	<u>P.O. Box 2521, HOUSTON, TEXAS 77001</u>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	<u>F 12 23-S 25-E YES 8-24-84</u>

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. F
		✓				✓		✓
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
<u>10-31-73</u>	<u>8-31-84</u>	<u>11460</u>	<u>10350</u>					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
<u>3524 GR</u>	<u>STRAWN</u>	<u>10138</u>	<u>10003</u>					
Perforations			Depth Casing Shoe					
<u>10138-10160</u>								
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET	SACKS CEMENT				
<u>20</u>	<u>16"</u>	<u>65"</u>	<u>100</u>	<u>225</u>				
<u>14 3/4</u>	<u>9 5/8</u>	<u>36"</u>	<u>2660</u>	<u>1735</u>				
<u>8 1/2</u>	<u>5 1/2</u>	<u>17-20"</u>	<u>11460</u>	<u>700</u>				
	<u>2 3/8"</u>	<u>TBL</u>	<u>10003</u>					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top oil able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL SEE BACK

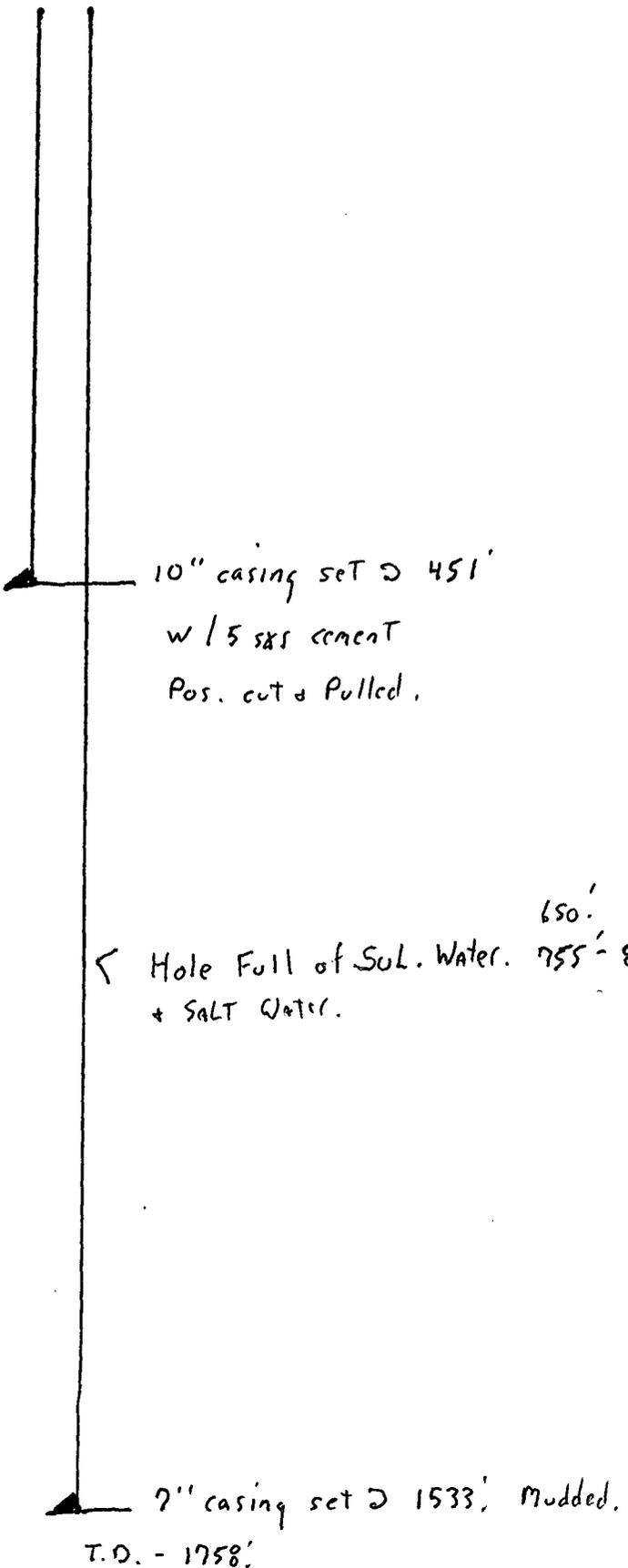
Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
<u>1260</u>			

Post FD-2  
9-24-84  
Comp. STRAWN

Operator Turner & DeVito  
Well DeVito #1  
Unit 0 Section 12 Township 23-S Range 25-E  
API # 30-015-00136

TOPS

- Yates \_\_\_\_\_
- T. Salt \_\_\_\_\_
- B. Salt \_\_\_\_\_
- Glorieta \_\_\_\_\_
- Bone Sp. \_\_\_\_\_
- Abo \_\_\_\_\_
- Wolfcamp \_\_\_\_\_
- Morrow \_\_\_\_\_
- Devonian \_\_\_\_\_
- Fusselman \_\_\_\_\_
- Other \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



10" casing set @ 451'  
w/ 5 sacks cement  
Pos. cut & pulled.

650'  
← Hole Full of Sul. Water. 755' - 880'  
+ SALT WATER.

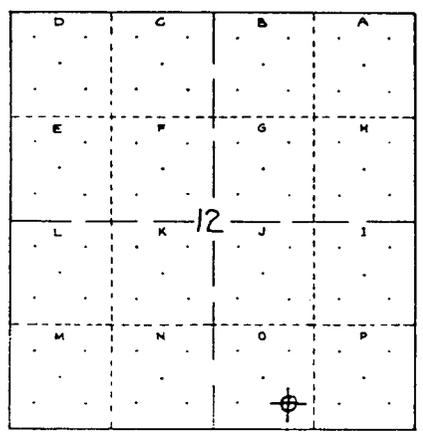
7" casing set @ 1533' Mudded.  
T.D. - 1758'





T. 23 S., R. 25 E., Sec. 12  
330 fr SL ; 1650 fr EL Unit 0

SAMPLE LOG TO 1755 PLOTTED



CASING RECORD

SIZE	DEPTH	CEMENT

OPERATOR TURNER, FRED

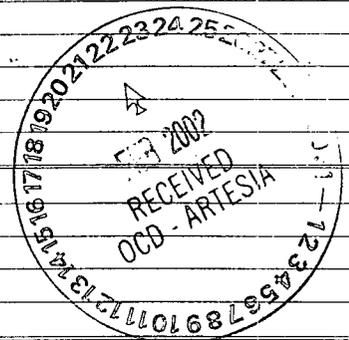
LEASE DeVito (Federal) WELL NO. 1  
Spud Comp. T. D.  
Tools Cable  
I. P. ABANDONED After

Producing Zone:

DRILL STEM TESTS

DATE	FROM TO	OPEN	RESULTS

Shows: HF Sol WTR (Castile) 840  
WTR 1450-59 (Lamar)  
" 1640-47 (Del sd)



ELEVATION BY L-S 3446

GEOLOGICAL RECORD

FORMATION	DEPTH	DATUM	INFO.
Top Rustler			
Base Rustler Lime			
Top Salt	None	SL	
Base Salt	"	SL	
Top Tansil			
Top Yates			
Base 2nd Yates Sand			
Top Seven Rivers (Capitan)			
Base Anhydrite			
Top Queen			
Top Penrose			
Top Grayburg			
Top San Andreas			
Top Glorietta			
Top Yeso			
Top Drinkard Zone			
Top Fullerton Zone			
Top Abo			
Top Wolfcamp (Hueco)			
Top Bursum			
<b>DELAWARE BASIN</b>			
Top Lamar	1078	+2368	SL
Top Del. Sand	1528	+1918	SL
Top Bone Springs			

FORMATION	DEPTH	DATUM	INFO.
Top Pennsylvanian (Cisco)			
Top Canyon			
Top Strawn			
Top Bond (Atoka)			
Top Mississippian (Chester)			
Top Miss. Lime			
Top Devonian (Woodford)			
Top Devonian Lime			
Top Silurian (Fusselman)			
Top Ordovician (Montoya)			
Top Simpson			
Top Ellenburger			
Top Cambrian (Bliss)			
Top Pre-Cambrian			
INTV'L. T.A. — B.R.L.			
B.R.L. — B.S.			
T.A. — B.S. (Salado)			
B.S. — T.T. (Fletcher)			
T.T. — T.Y. (Tansil)			
T.Y. — T.S.R.L. (Yates)			
B.S. — B.A. (Gradational)			
B.S. — T.D.L. (Castile)			
T.D.L. — T.D.S. (Lamar)		450	SL
T.D.S. — T.B.S.L. (Delaware)			
T.D.L. - fluids (wtr)		562	SL-op

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
CONSERVATION BRANCH**

**INDIVIDUAL WELL RECORD**

Map No. \_\_\_\_\_  
T. \_\_\_\_\_  
R. \_\_\_\_\_  
S. E. P. \_\_\_\_\_  
Ref. No. 2 \_\_\_\_\_

**PUBLIC LAND:**

Land office Las Cruces State New Mexico  
 Serial No. 45335 County Eddy  
 Permittee DeTito Field Dark Springs  
 or Lessee  
 Operator Turner and DeTito District Hoswell  
 Well No. 1 Subdivision SE Cor. SE X SE X SW  
 Location 330 feet from N. S. line and 1650 feet from E. N. line of \_\_\_\_\_  
 Drilling approved Oct. 11 1940 Well elevation 346 (100) feet  
 Drilling commenced Oct. 15 1940 Total depth 175 feet  
 Drilling ceased Dec. 9 1940 Initial production none  
 Plugged and abandoned March 5 1941 Gravity A. P. I. \_\_\_\_\_  
 Abandonment approved \_\_\_\_\_ 19\_\_\_\_ Initial R. P. \_\_\_\_\_

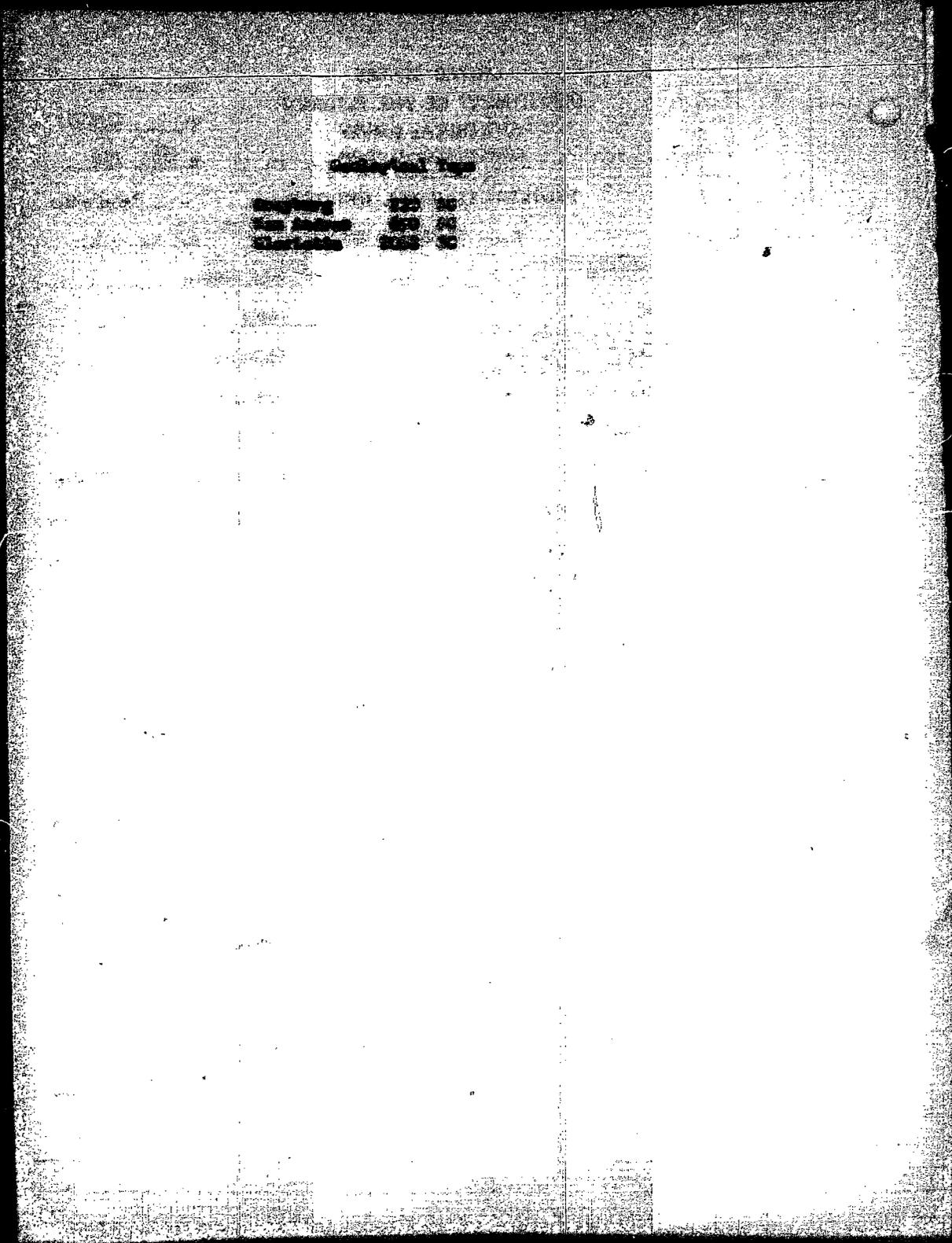
**Geologic Formations** **Productive Horizons**  
 Surface Tertiary Permian Name \_\_\_\_\_ Depth \_\_\_\_\_ Contents \_\_\_\_\_

**WELL STATUS**

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT.	OCT.	NOV	DEC.
1940										DRG	DRG	DRG
1941	DRG	DRG	PBA									

REMARKS Water found at 877-40', 1156-50' and 1615-47'.

This report is revised one previously submitted.



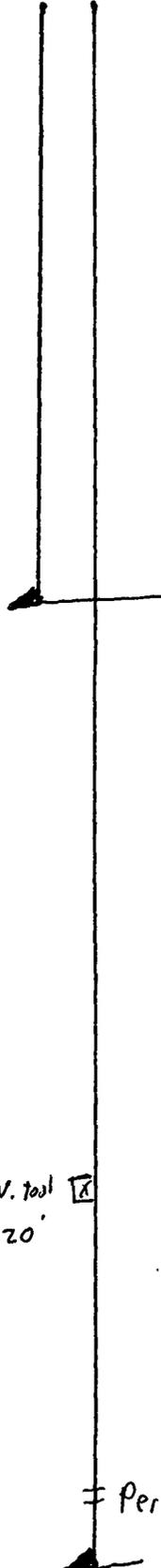
Operator Exxon Corp.

Well Squaw Fed. #12

Unit G Section 13 Township 23-S Range 25-E

API # 30-015 - 24701

- Yates \_\_\_\_\_
- T. Salt \_\_\_\_\_
- B. Salt \_\_\_\_\_
- Glorieta \_\_\_\_\_
- Bone Sp. \_\_\_\_\_
- Abo \_\_\_\_\_
- Wolfcamp \_\_\_\_\_
- Morrow \_\_\_\_\_
- Devonian \_\_\_\_\_
- Fusselman \_\_\_\_\_
- Other \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



8 5/8" 24 # casing set @ 1325'  
 w/1250 sxs cement.  
circ.

History

Well was spudded & Drilled 12/22/1983

Rotary.

Well is P+A. 12/4/91.

D.V. tool   
3020'

Perfs 4732'-74'. Delaware.

5 1/2" 17 # casing set @ 5172'

1st stage 550 sxs cement

2nd stage 900 sxs cement T.O.C. - 1050' by Temp. Survey.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
DEC 20 1991  
O. C. D.  
ARTESIA OFFICE

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

CISF

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  
**EXXON CORPORATION**    **ATTN: REGULATORY AFFAIRS**

3. Address and Telephone No.  
**P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7546**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**2310' FNL AND 2240' FEL SECTION 13, T23S, R25E**  
*W. G*

5. Lease Designation and Serial No.  
**NM-0453201**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**SQUAW FEDERAL**  
**2**

9. API Well No.  
**3001524701**

10. Field and Pool, or Exploratory Area  
*W. D. art. Canyon Rebur*  
**DELAWARE CANYON**

11. County or Parish, State  
**EDDY NM**

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 checked="" 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 type="checkbox"/> Other
	<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

(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.)\*

12-2-91 8:00 AM - NOTIFIED BLM THAT PLUGGING OPERATIONS WOULD BEGIN.  
12-3-91 TAGGED CIBP AT 4620'. PLUG 1 - 25 SX CEMENT PLUG FROM 4362 - 4616'. DISPLACED CSG W/10# BRINE GEL.  
PLUG 2 - 25 SX CEMENT PLUG FROM 2827 - 3080'.  
PLUG 3 - 25 SX CEMENT PLUG FROM 1122 - 1375'. DISPLACED CSG W/10# BRINE GEL.  
PLUG 4 - 10 SX CEMENT PLUG FROM 100' - SURFACE.  
ALL PLUGS - CLASS C NEAT.  
12-4-91 CUT OFF WELLHEAD. CIRCULATED 15 SX CL C NEAT 100' TO SURFACE IN 5-1/2 X 8-5/8 ANNULUS. WELDED ON DRY HOLE MARKER. CLEANED LOCATION.

*Post ID-2  
1-10-92  
P4A*

Approved by \_\_\_\_\_ Title \_\_\_\_\_  
List of operations completed and until surface reconstruction is completed.

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

Signed *Judy Bagwell* Title **Judy Bagwell** Sr Staff Office Assistant Date **12/10/91**

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date *12-20-91*

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.

RECEIVED Form 9-331  
Dec. 1973

MAR 29 1985

O. C. D.  
ARTESIA OFFICE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Exxon Corporation ✓

3. ADDRESS OF OPERATOR  
P.O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
2310' FNL & 2240' FEL of Section  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
--

7. UNIT AGREEMENT NAME  
--

8. FARM OR LEASE NAME  
Squaw Federal

9. WELL NO.  
2

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 13-23S-25E

12. COUNTY OR PARISH | 13. STATE  
Eddy | New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
3482' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Status Report			

~~EXPIRED~~

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED  
JUN 26 10 31 AM '84  
MIDLAND DISTRICT

17. 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.)\*

- 1-11-84 Perf 5 1/2" csg @ 4732-4774 w/52 shots.
- 1-12-84 Acdz w/2000 gals 15% HCl.
- 1-17-84 Frac w/32,000 gals 75% foam, 18,000# 20-40 sand, 16,000# 10-20 sand. Testing.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Melba Kripling TITLE Unit Head DATE January 24, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL BLANK

MAR 22 1985

Carl...  
NEW MEXICO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer DD  
Artesia, NM

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Exxon Corporation

3. ADDRESS OF OPERATOR  
P.O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 2310' FNL & 2240' FEL of Sec.  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON\*
- (other) Set casing

SUBSEQUENT REPORT OF:

- 
- 
- 
- 
- 
- 
- 
- 

RECEIVED BY  
MAY 11 1984  
O. C. D.  
ARTESIA, OFFICE

5. LEASE  
88410  
NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
--

7. UNIT AGREEMENT NAME  
--

8. FARM OR LEASE NAME  
Squaw Federal

9. WELL NO.  
2

10. FIELD OR WILDCAT NAME  
Wildcat *Delaware*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13-23S-25E

12. COUNTY OR PARISH | 13. STATE  
Eddy | New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
3482' GR

17. 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.)\*

1-7-84 Ran 5 1/2" 17# K-55 csg., set @ 5172'. DV tool @ 3020'. Cement 1st stage w/550 sx Class C & 2nd stage w/900 sx Class C. 1st stage circ., 2nd stage did not circ. Ran Temp. survey - TOC 1050'. Surface csg. set @ 1326'. WOC, csg. to be tested before completion begins.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Melba Snipling TITLE Unit Head DATE January 17, 1984

ACCEPTED FOR RECORD (This space for Federal or State office use)

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL IF ANY  
MAY 9 1984

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

NM OIL CONS. COMMISSION  
Drawer DD  
Artesia, NM 88201

5. LEASE NO. 882 NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
--

7. UNIT AGREEMENT NAME  
--

8. FARM OR LEASE NAME  
Squaw Federal

9. WELL NO.  
2

10. FIELD OR WILDCAT NAME  
Wildcat Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 13-23S-25E

12. COUNTY OR PARISH Eddy 13. STATE New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
3482' GR

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a fractured reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other   
 2. NAME OF OPERATOR Exxon Corporation  
 3. ADDRESS OF OPERATOR P.O. Box 1600, Midland, Texas 79702  
 4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
 AT SURFACE: 2310' FNL & 2240' FEL of Section  
 AT TOP PROD. INTERVAL:  
 AT TOTAL DEPTH:

RECEIVED  
SURVEYED BY G.M.T.  
ROSWELL DISTRICT  
JAN 12 1984  
OFFICE

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Set casing</u>			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)\*

12-22-83 Spud 12 1/4" hole @ 10:30 P.M.

12-27-83 Set 30 jts. 8 5/8", 24#, K-55 csg. @ 1325' w/700 sx ClB5; tailed w/550 sx ClC. Cmt. circulated. Test csg. to 2000# for 30 min. WOC 23 hrs.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Melba Kripling TITLE Unit Head DATE 12-30-83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD  
[Signature]  
JAN 9 1984

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 23 1991

O. C. D.  
ARTESIA OFFICE

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: September 30, 1990

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

EXXON CORPORATION ATTN: REGULATORY AFFAIRS

3. Address and Telephone No.

P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7546

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

2310' FNL AND 2240' FEL SECTION 13, T23S, R25E

5. Lease Designation and Serial No.

NM-0453201

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

SQUAM FEDERAL  
2

9. API Well No.

3001524701

10. Field and Part, or Exploratory Area

W. G. *W. G. Conjar Nelson*  
DELAWARE CANYON

11. County or Parish, State

EDDY NM

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 checked="" 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 type="checkbox"/> Other
	<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

(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.)

12-2-91 8:00 AM - NOTIFIED BLM THAT PLUGGING OPERATIONS WOULD BEGIN.  
12-3-91 TAGGED CIBP AT 4620'. PLUG 1 - 25 SX CEMENT PLUG FROM 4362 - 4616'. DISPLACED CSG W/10# BRINE GEL.  
PLUG 2 - 25 SX CEMENT PLUG FROM 2827 - 3080'.  
PLUG 3 - 25 SX CEMENT PLUG FROM 1122 - 1375'. DISPLACED CSG W/10# BRINE GEL.  
PLUG 4 - 10 SX CEMENT PLUG FROM 100' - SURFACE.  
ALL PLUGS - CLASS C NEAT.  
12-4-91 CUT OFF WELLHEAD. CIRCULATED 15 SX CL C NEAT 100' TO SURFACE IN 5-1/2 X 8-5/8 ANNULUS. WELDED ON DRY HOLE MARKER. CLEANED LOCATION.

*Post ID-2  
1-10-92  
P4A*

Approved as to plugging of the well bore,  
Liability under bond is retained until  
surface restoration is completed.

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

Signed *Judy Bagwell*

Judy Bagwell  
Sr Staff Office Assistant

Date 12/10/91

(This space for Federal or State office use)

Approved by \_\_\_\_\_

Title \_\_\_\_\_

Date 12-26-91

Conditions of approval, if any:

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RECEIVED BY  
FEB 28 1984  
O. C. D.  
ARTESIA, OFFICE  
Form C-104  
Revised 10-1-78

NO. OF TANKS APPROVED	
DISTRIBUTION	
SANTA FE	<input checked="" type="checkbox"/>
FILE	<input checked="" type="checkbox"/>
U.S.D.S.	
LAND OFFICE	
TRANSPORTER	OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/>
OPERATOR	<input checked="" type="checkbox"/>
OPERATION OFFICE	

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator  
Exxon Corporation

Address  
P. O. Box 1600, Midland, TX 79702

Reason(s) for filing (Check proper box)

New Well	<input checked="" type="checkbox"/>	Change in Transporter oil	<input type="checkbox"/>	Other (Please explain)	CASINGHEAD GAS MUST NOT BE FLARED AFTER 4-12-84 UNLESS AN EXCEPTION FROM THE D. L. M. IS OBTAINED
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>	Dry Gas	<input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Condensate Gas	<input type="checkbox"/>	Condensate	<input type="checkbox"/>

If change of ownership give name and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name: Squaw Federal

Well No.: 2

Pool Name, Initiating Formation: *Wildcat - Delaware*

Kind of Lease: *XXX Federal or XXX*

Lease No.: NM-04532

Location: Unit Letter G; 2310 Feet From The North Line and 2240 Feet From The East Line of Section 13 Township 23S Range 25E NMPM, Eddy Co.

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil  or Condensate : Navajo Crude Oil Purchasing Co.

Address (Give address to which approved copy of this form is to be sent): P. O. Box 159, Artesia, NM 88210

Name of Authorized Transporter of Condensate Gas  or Dry Gas : \_\_\_\_\_

Address (Give address to which approved copy of this form is to be sent): \_\_\_\_\_

If well produces oil or liquids, give location of tanks: Unit G Sec. 13 Twp. 23S Rge. 25E Is gas currently connected? Flared When \_\_\_\_\_

If this production is commingled with that from any other lease or pool, give commingling order number \_\_\_\_\_

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well <input type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Resrv. <input type="checkbox"/>	Diff. R. <input type="checkbox"/>
Date Spudded	Date Compl. Ready to Prod.	Total Depth			P.B.T.D.			
12-22-83	2-2-84	5172						
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation	Top Oil/Gas Pay			Tubing Depth			
GR 3482'	Delaware	4732			4690			
Perforations	Depth Casing Shoe							
4732-4774								
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/4"	8 5/8"		1325		1250			
7 7/8"	5 1/2"		5172		1450			
	2 7/8"		4690					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top of able for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)		
1-19-84	2-11-84	Pump		
Length of Test	Tubing Pressure	Casing Pressure	Chase Size	
24 Hr.				
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF	
	23	130	111	

*Post ID-2  
3-16-84  
except 21*

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (prior, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Chase Size

487

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
RECEIVED

Drawer DD  
Artesia, NM

5. LEASE  
88210  
NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
--

7. UNIT AGREEMENT NAME  
--

8. FARM OR LEASE NAME  
Squaw Federal

9. WELL NO.  
2

10. FIELD OR WILDCAT NAME  
Wildcat *Delaware*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13-23S-25E

12. COUNTY OR PARISH | 13. STATE  
Eddy | New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
3482' GR

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

BUR. OF LAND MGMT  
ROSWELL DISTRICT

2. NAME OF OPERATOR  
Exxon Corporation

3. ADDRESS OF OPERATOR  
P.O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 2310' FNL & 2240' FEL of Sec.  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

SUBSEQUENT REPORT OF:

- TEST WATER SHUT-OFF
- FRACTURE TREAT
- SHOOT OR ACIDIZE
- REPAIR WELL
- PULL OR ALTER CASING
- MULTIPLE COMPLETE
- CHANGE ZONES
- ABANDON\*

- 
- 
- 
- 
- 
- 
- 
- 

(other) Set casing

RECEIVED BY  
MAY 11 1984  
O. C. D.  
ARTESIA, OFFICE

NOTE: Report results of multiple completion or zone change on Form 9-330.

17. 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.)\*

1-7-84 Ran 5 1/2" 17# K-55 csg., set @ 5172'. DV tool @ 3020'. Cement 1st stage w/550 sx Class C & 2nd stage w/900 sx Class C. 1st stage circ., 2nd stage did not circ. Ran Temp. survey - TOC 1050'. Surface csg. set @ 1326'. WOC, csg. to be tested before completion begins.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Melba Knippling TITLE Unit Head DATE January 17, 1984

ACCEPTED FOR RECEIPT (This space for Federal or State office use)

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL IF ANY  
MAY 9 1984

c/87

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Exxon Corporation

3. ADDRESS OF OPERATOR  
P.O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
2310' FNL & 2240' FEL of Section  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Change casing program</u>			

5. LEASE  
NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
---

7. UNIT AGREEMENT NAME  
---

8. FARM OR LEASE NAME  
Squaw Federal

9. WELL NO.  
---

10. FIELD OR WILDCAT NAME  
Wildcat *Delaware*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13-23S-25E

12. COUNTY OR PARISH | 13. STATE  
Eddy | New Mexico

14. API NO.  
---

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
3482' GR

(NOTE: Report results of multiple completion zone change on Form 9-336)

RECEIVED  
JAN 12 10 15 AM '84  
BUR. OF LAND MGMT  
ROSSELL DISTRICT

17. 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.)\*

Please amend the casing and cementing program to show that 8 5/8", 24# csg. will be set @ 1325' w/1250 sx cmt.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Melba Krepling TITLE Unit Head DATE January 10, 1984

ACCEPTED FOR RECORD  
(This space for Federal or State office use)

APPROVED BY GWD TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL IF ANY  
MAY 10 1984

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

NM OIL CONS. COMMISSION  
Drawer DD  
Artesia, NM 88201

2/8

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Exxon Corporation

3. ADDRESS OF OPERATOR  
P.O. Box 1600, Midland, Texas 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
2310' FNL & 2240' FEL of Section  
AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

RECEIVED  
JAN 12 1984  
BUR-BIVERT BNGMT  
ROSWELL DISTRICT  
E. C. D.  
ARTESIA, OFFICE

5. LEASE  
882 NM-0453201

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
--

7. UNIT AGREEMENT NAME  
--

8. FARM OR LEASE NAME  
Squaw Federal

9. WELL NO.  
2

10. FIELD OR WILDCAT NAME  
Wildcat Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec 13-23S-25E

12. COUNTY OR PARISH  
Eddy

13. STATE  
New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
3482' GR

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Set casing			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)\*

12-22-83 Spud 12 1/4" hole @ 10:30 P.M.

12-27-83 Set 30 jts. 8 5/8", 24#, K-55 csg. @ 1325' w/700 sx C1B5; tailed w/550 sx C1C. Cmt. circulated. Test csg. to 2000# for 30 min. WOC 23 hrs.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Melba Knippling TITLE Unit Head DATE 12-30-83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD  
[Signature]  
JAN 9 1984

\*See Instructions on Reverse Side

Operator Gulf Oil Corp.

TOPS

Well Shearn D Fed. Com. #1

Unit J Section 15 Township 23-S Range 25-E

API # 30-015 -- 22430

Yates \_\_\_\_\_

T. Salt \_\_\_\_\_

B. Salt \_\_\_\_\_

Glorieta \_\_\_\_\_

Bone Sp. \_\_\_\_\_

Abo \_\_\_\_\_

Wolfcamp 8357'

Morrow 10850'

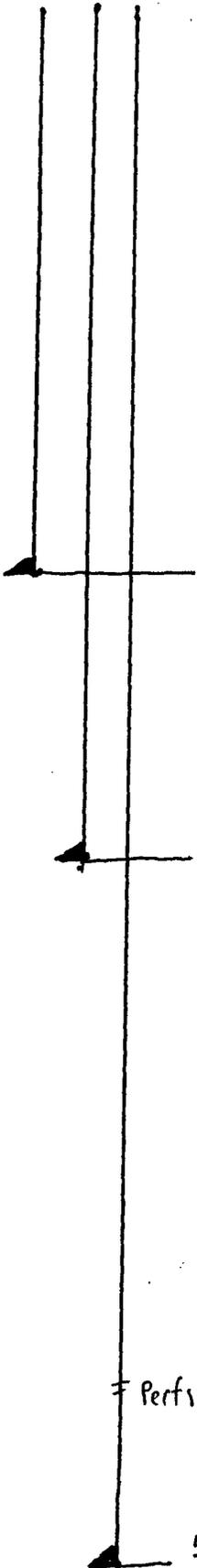
Devonian \_\_\_\_\_

Fusselman \_\_\_\_\_

Other \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



13 3/8" 48# casing set @ 375'

w/400 srs cl. H.

9 5/8" 40# casing set @ 2596'

w/1200 srs cement.

1" to surface total 600 srs cement.

Perfs 9796' - 9913'

5 1/2" 17# casing set @ 11,350'

w/875 srs cl-H. T.o.c. 8610' by Temp. Survey.

History

Well was spudded & Drilled 2/19/1978

Well P+A - 7/12/1979.

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
NM-6034 RECEIVED

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
APR 28 1980

7. UNIT AGREEMENT NAME  
O. C. D.

8. FARM OR LEASE NAME, RITES A, OFFICE  
Shearn "D" Federal Com

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Undes. Strawn

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR ABBA

Sec. 15-T23S-R25E

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
GULF OIL CORPORATION

3. ADDRESS OF OPERATOR  
P.O. Box 670, Hobbs, NM 88240

4. LOCATION OF WELL. (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
1980' FSL & 1980' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3754' GL

12. COUNTY OR PARISH | 13. STATE  
Eddy | NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

17. 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.)\*

11,350' TD. 10,105' PB. Set CIBP @ 9000'. Capped w/25 sx cmt (225'). Circ hole w/abandonment mud. Cut csg @ 7603' & pulled. Spotted 158' plug (40 sx cmt) @ 7678' to 7520'. Spotted 45 sx cmt f/6950' to 6800'; 45 sx f/5450'-5300'; 45 sx f/4000'-3850'; 50 sx f/2700'-2550' across 9-5/8" shoe jt. WOC. Tagged cmt plug @ 2658' - spotted 35 sx cmt from 2658' to 2550'. Spotted 45 sx cmt from 650' to 550'. Spot 25' plug @ surf. Install dry hole marker.

Will notify when location is ready for inspection.

Work performed 7-6-79 thru 7-12-79.

Posted  
I D 2  
5-2-80  
PXA

RECEIVED

JUL 17 1979

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

SIGNED N. P. Sikes, Jr. TITLE Area Engineer DATE 7-16-79

(This space for Federal or State office use)

APPROVED BY (Orig. Sgd.) GEORGE H. STEWART DATE APR 10 1980

CONDITIONS OF APPROVAL, IF ANY: TITLE DATE

**OCC COPY**  
**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

*Copy to 57*

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL  GAS WELL  OTHER  **RECEIVED**

2. NAME OF OPERATOR Gulf Oil Corporation APR 26 1978

3. ADDRESS OF OPERATOR P. O. Box 670, Hobbs, NM 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface 1980' FSL, 1980' FEL, Sec 15, T23S-R25E

14. PERMIT NO. \_\_\_\_\_ 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3754' GL

5. LEASE DESIGNATION AND SERIAL NO. NM-6034

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME \_\_\_\_\_

8. FARM OR LEASE NAME Shearn "D" Federal Com

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Undes Strawn

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 15, T23S-R25E

12. COUNTY OR PARISH Eddy 13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____

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

17. 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.)\*

Reached TD of 8 3/4" hole at 11,350' at 5:30 PM 3-28-78. Ran 52 jts 5 1/2" 17# N-80 LT & C (2184.56'), 160 jst 5 1/2" 17# K-55 LT & C (6670.39'), 57 jts and 1 cut jt 5 1/2" 17# N-80 LT & C (2398.50'). Total 11,333.45', set at 11,350' Cement with 875 sacks Class H .75% CFR-2, 5#/sack KCL. Cement did not circulate. WOC 6 hours. TSITOC 8610'. WOC over 24 hours. Tested 5 1/2" casing to 3000# for 30 min OK.

Piped valves above ground level on all casing strings, approved by Bill Grisset, OCC Artesia, NM.

**RECEIVED**  
 APR 19 1978  
 U.S. GEOLOGICAL SURVEY  
 ARTESIA, NEW MEXICO

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

SIGNED N.P. Sikes, Jr. TITLE Area Engineer DATE 4-17-78

(This space for Federal or State office use)

APPROVED BY Joe J. Lara TITLE ACTING DISTRICT ENGINEER DATE APR 25 1978

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

**NMOCC COPY**  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

*Copy to S.*  
Form approved.  
Budget Bureau No. 42-R1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		<b>RECEIVED</b>  MAR 14 1978
2. NAME OF OPERATOR Gulf Oil Corporation ✓		
3. ADDRESS OF OPERATOR P. O. Box 670, Hobbs, NM 88240		O. C. C. OFFICE
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1980' FSL, & 1980' FEL, Sec 15, T23S, R25E		
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3754' GL	

5. LEASE DESIGNATION AND SERIAL NO. NM-6034
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Shearn "D" Federal Co
9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT Undes Strawn
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec 15, T23S-R25E
12. COUNTY OR PARISH Eddy
13. STATE NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

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

17. 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.)\*

Reached TD of 12 1/4" hole at 2610' at 10:15 AM 2-27-78. Ran 63 jts and 1 cut jt 9 5/8" 40# S-95 LT & C and 36# K-55 ST & C (28 jts 1236.22', 40#), (35 jts and 1 cut jt 1360.11', 36#) total 2596', set at 2610'. Cement with 300 sacks Thickset with 10#/sack Gilsonite, 1/4# flocele, 2% CaCl2, plug 600 sxs Howco lite and 200 sacks Class C with 2% CaCl2. Cement did not circulate. WOC 6 hrs. Cement thru 1" pipe with 600 sacks Class C with 4% CaCl2, thickset, 5#/sack gilsonite, 1/4# flocele, 3% CaCl2. Cement with 120 sacks Thickset. Cement circulated. WOC over 24 hours. Tested 9 5/8" casing to 3000# for 30 min OK.

Started drilling a 8 3/4" hole at 2610' at 1:45 PM 3-2-78.

**RECEIVED**  
MAR 9 - 1978  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

SIGNED <u>H. B. Sikes, Jr.</u>	TITLE <u>Area Engineer</u>	DATE <u>3-3-78</u>
<small>(This space for Federal or State (Use use)</small>		
APPROVED BY <u>Joe D. Lane</u>	TITLE <u>ACTING DISTRICT ENGINEER</u>	DATE <u>MAR 13 1978</u>

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Copy to 57

NMOCC COPY.

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-6034

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Shearn "D" Federal Com

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Undes Strawn

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

Sec 15, T23S-R25E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

1. OIL WELL  GAS WELL  OTHER

RECEIVED

2. NAME OF OPERATOR  
Gulf Oil Corporation

FEB 28 1978

3. ADDRESS OF OPERATOR  
P. O. Box 670, Hobbs, NM 88240

O.C.C.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
1980' FSL & 1980' FEL, Section 15, T-23-S, R-25-E

ARTESIA, OFFICE

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
3754' GL

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETION   
ABANDON\*   
CHANGE PLANS

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

17. 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.)\*

McVay Drilling Co. spudded a 17 1/2" hole at 3:30 PM 2-19-78. Reached TD of 17 1/2" hole at 375' at 6 AM 2-21-78. Ran 10 jts 13 3/8" 48# H-40 ST & C (357') Set at 375'. Cemented with 200 sacks Class H lite weight and 200 sacks Class H with 2% CaCl2. Cement did not circulate. Ran 4 1/2 yards of ready mix to surface. WOC 18 hrs. Tested 13 3/8" casing 500# for 30 min - OK.

Started drilling a 12 1/4" hole at 375' at 3 AM 2-22-78.

RECEIVED

FEB 24 1978

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

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

SIGNED M. P. Sikes, Jr.

TITLE Area Engineer

DATE 2-23-78

(This space for Federal or State office use)

APPROVED BY J. S. Lora

TITLE ACTING DISTRICT ENGINEER

DATE FEB 27 1978

CONDITIONS OF APPROVAL, IF ANY:

Operator Exxon Corp.

TOPS

Well Mary Fed. #4

Unit H Section 24 Township 23S Range 25E

API # 30-015-25135

Yates \_\_\_\_\_

T. Salt \_\_\_\_\_

B. Salt \_\_\_\_\_

Glorieta \_\_\_\_\_

Bone Sp. 4821'

Abo \_\_\_\_\_

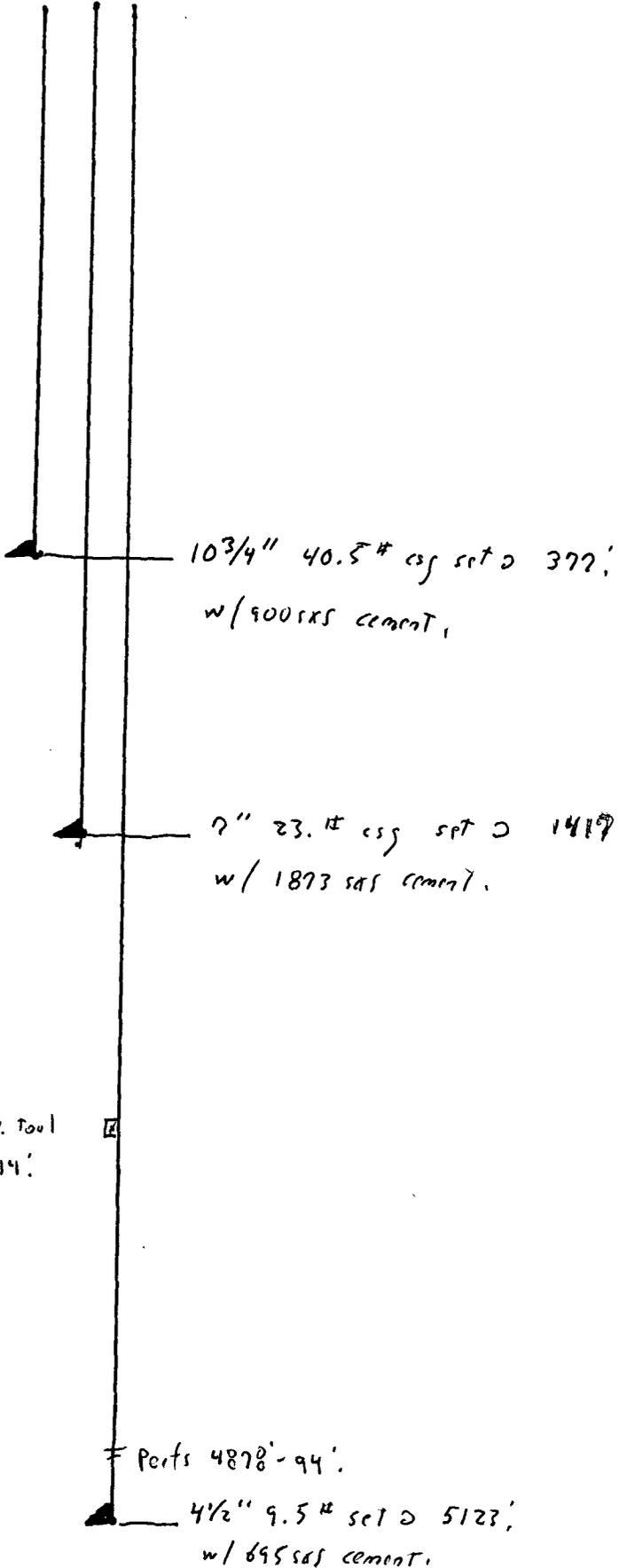
Wolfcamp \_\_\_\_\_

Morrow \_\_\_\_\_

Devonian \_\_\_\_\_

Fusselman \_\_\_\_\_

Other T. Delaware 1456'



10 3/4" 40.5# csg set @ 377'  
w/ 900 sacks cement.

7" 23.1# csg set @ 1417'  
w/ 1873 sacks cement.

O.V. Tool  
3014'

F Perfs 4878'-94'

4 1/2" 9.5# set @ 5123'  
w/ 695 sacks cement.

History

Well was spud + Drilled 1/20/1985.

Well was plugged 12/6/1985.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-0426782

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Dry	RECEIVED BY
2. NAME OF OPERATOR Exxon Corporation	MAY 12 1986
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702	O. C. D. ARTESIA OFFICE
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface	

1565' FNL & 200' FEL of Sec. (SE NE )

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mary Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

West Dark Canyon - Delawa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 24, T23S, R25E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

14. PERMIT NO.  
30-015-25135

15. ELEVATIONS (Show whether OF, ST, GR, etc.)  
KB-3448, DF-3447, GL-3435

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>
(Other) <input type="checkbox"/>	

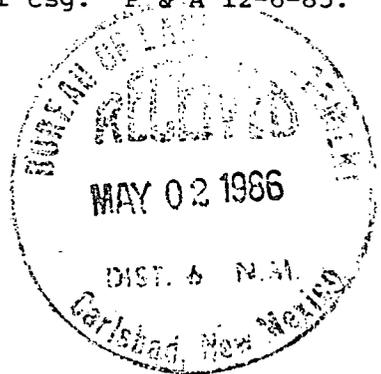
WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

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

17. 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.)\*

The above well was plugged and abandoned as follows:

CIBP was set at 4808' w/ 35' cmt. on 4-24-85. On 12-6-85 plugs were set at 3067' w/ 25 sx cmt., 1516' w/ 25 sx cmt. & 610' w/ 25 sx cmt. Perf 4 1/2" csg. at 150' w/ 4 shots and again at 100'. Could not get circulation. Tagged plug at 390' & circulated cmt. to surface on both sides of csg. P & A 12-6-85.



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

SIGNED Melba Knippling TITLE Section Head DATE 04/30/86

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE 5-7-86

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP DATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

46

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Dry		RECEIVED BY	
2. NAME OF OPERATOR Exxon Corporation		JAN 8 1986	
3. ADDRESS OF OPERATOR P. O. Box 1600, Midland, TX 79702		O. C. D. ARTESIA, OFFICE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1565' FNL & 200' FEL of Sec. (SE/NE)		7. UNIT AGREEMENT NAME ---	
14. PERMIT NO. 30-015-25135		8. FARM OR LEASE NAME Mary Federal	
15. ELEVATIONS (Show whether DF, BT, GR, etc.) KB-3448, DF-3447, GL-3435		9. WELL NO. 4	
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT West Dark Canyon Delau	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 24, T23S, R25E	
		12. COUNTY OR PARISH Eddy	
		13. STATE NM	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

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

17. 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.)\*

The above well was plugged and abandoned as follows:

Set plug at 3067' w/ 25 sx cmt.  
 Set plug at 1516' w/ 25 sx cmt.  
 Perf 4 1/2" csg. at 150' w/ 4 shots.  
 Perf'd again at 100'. Tagged plug at 390' and circulated cmt. to surface.  
 Cut off wellhead and installed dry hole marker.  
 P & A 12-6-85.

Post #D-2  
1-24-86  
NA

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

SIGNED Melba Knippling TITLE Unit Head DATE 1-3-86

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
ARTESIA, N.M. 88210

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

SUBMISSION DUPLICATE  
(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

NM-0426782

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mary Federal

9. WELL NO.

#4

10. FIELD AND POOL, OR WILDCAT

West Dark Canyon-Delaware

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA

Sec. 24, 23S, 25E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

18. ELEVATIONS (DF, R&B, RT, GR, ETC.)

3446

19. ELEV. CASINGHEAD

3445

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG-BACK  DIFF. RESRV.  Other

2. NAME OF OPERATOR  
Exxon Corporation

3. ADDRESS OF OPERATOR  
P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1565' FNL & 200' FEL of Section  
At top prod. interval reported below  
At total depth

14. PERMIT NO. DATE ISSUED  
30-015-25135 12-11-84  
ARTESIA OFFICE

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, R&B, RT, GR, ETC.) 19. ELEV. CASINGHEAD  
1-20-85 3-13-85 3-24-85 KB-3448, DF-3447, GL-3445

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS  
5125 P&A 12-6-85 X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED  
LDT-CNL; DLL-MSFL No

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4	40.5	377	12 1/4	900 sx C1C	
7	23	1417	9 7/8	870 sx PSL & 1003 sx C1C	
4 1/2	9.5	5123	6 1/4	695 sx C1C	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

4878-4894 w/ 33 shots. acdz. w/ 2000 gals. 15% HCl. Frac w/ 20,000 gals. cross gel and CO <sub>2</sub> & 30000# 20-40 sd. Set CIBP at 4808' w/ 35' cmt.	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	100-48	200 sx C1C Set to contain
	48-0	200 sx C1C hole & prevent
	525-852	280 sx C1H cave-in.
	624-945	400 sx C1C-set due to lost

33. PRODUCTION returns-See reverse.

DATE FIRST PRODUCTION 3-24-85 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) 200 bbls. testing allowable only WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF	WATER—BBL	GAS/OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

P&A 12-6-85 CARISBAD, NEW MEXICO

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Melba Knippling TITLE Unit Head DATE 1-3-86

\*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			<p>Set plugs at 346-453 w/ 200 sx C1C, 318-346 w/ 170 sx C1C, 318' w/ 200 sx C1C &amp; 240-318' w/ 250 sx C1C.</p> <p>Set plugs below with 250 sx CIH each:            762-890, 689-762, 596-689, 390-596, 325-390, 272-325, 242-272, 240-242 &amp; 2 at 240'.</p> <p><u>P&amp;A Information</u></p> <p>Set plug at 3067' w/ 25 sx cmt.            Set plug at 1516' w/ 25 sx cmt.            Perf 4 1/2" csg. at 150' w/ 4 shots.            Perf'd again at 100'. Tagged plug at 390' and circulated cmt. to surface.            Cut off wellhead and installed dry hole marker.            P&amp;A 12-6-85.</p>

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
Delaware Cherry Canyon Bone Spring	1456 2304 4821	

Form 3100-115 OIL GENS. COMMISSION  
November 1983 DDB  
Formerly 9-331

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-0426782

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Mary Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

West Dark Canyon-Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 24, T23S, R25E

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

2. NAME OF OPERATOR

Exxon Corporation

3. ADDRESS OF OPERATOR

P. O. Box 1600, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)

At surface 1565' FNL and 200' FEL of Sec. 24 \*SE/NE)

14. PERMIT NO.

30-015-25135

15. ELEVATIONS (Show whether DF, ST, CR, etc.)

3446' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANE

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Status Report

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

17. 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.)\*

The plugs shown on the previous report were set to contain the hole and keep it from caving in.

1-29-85 Drlg @ 979' in 12 1/4" hole. Set plug @ 642-945' w/400 sx Cl C. Plugs set because of lost returns.

2- 5-85 Set plug @ 346-453' w/200 sx Cl C.  
318-346' w/170 sx Cl C

2- 6-85 318' w/200 sx Cl C. No fill.  
240-318' w/250 sx Cl C. Drill out.

2-12-85 Drlg @ 1280'. Twisted off. Fish consists of Bit, B.S., 8" DC, XO, 6 1/2" DC, XO, 4" DP, DP too jt pen end. Top of fish @ 536'. Try to recover fish. Could not.

2-17-85 Drlg @ 992'. Pipe stuck. Fish consists of bit, bs, 8" DC, XO. Tof of fish @ 925' Wash and Ream.

2-20-85 Set plugs @ 762-890' w/250 sx Cl H  
689-762' w/250 sx Cl H  
596-689' w/250 sx Cl H  
390-596' w/250 sx Cl H  
325-390' w/250 sx Cl H  
272-325' w/250 sx Cl H

2-21-85 242-272' w/250 sx Cl H  
240-242' w/250 sx Cl H  
240' w/250 sx Cl H No fill  
240' w/250 sx Cl H No fill

(OVER)

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

SIGNED

*Melba Fripling*

TITLE

Unit Head

DATE

3-10-85

(This space for Federal or State office use)

APPROVED BY

ACCEPTED FOR RECORD

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APR 2 1985

\*See Instructions on Reverse Side

CARISBAD, NEW MEXICO

c/s

Form 3160-5 BY  
November 1983  
Formerly 9-331

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

APR 2 1985

COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.

NM-0426782

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

---

7. UNIT AGREEMENT NAME

---

8. FARM OR LEASE NAME

Mary Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

West Dark Canyon-Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 24 - T23S, R25E

14. PERMIT NO.

30-015-25135

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3446' GR

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Status Report

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

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

17. 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.)\*

1-20-85 Spud 12-1/4" hole @ 0615.  
Hole caving in.

1-22-85 Set plug @ 100 - 48 w/ 200 sx C1C  
Set plug @ 48 - 0 w/ 200 sx C1C

1-24-85 Set plug @ 525 - 852 w/ 280 sx C1H

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

SIGNED

Melba Kripling

TITLE

Unit Head

DATE

30 January 1985

(This space for Federal or State office use)

APPROVED BY

ACCEPTED FOR RECORD

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

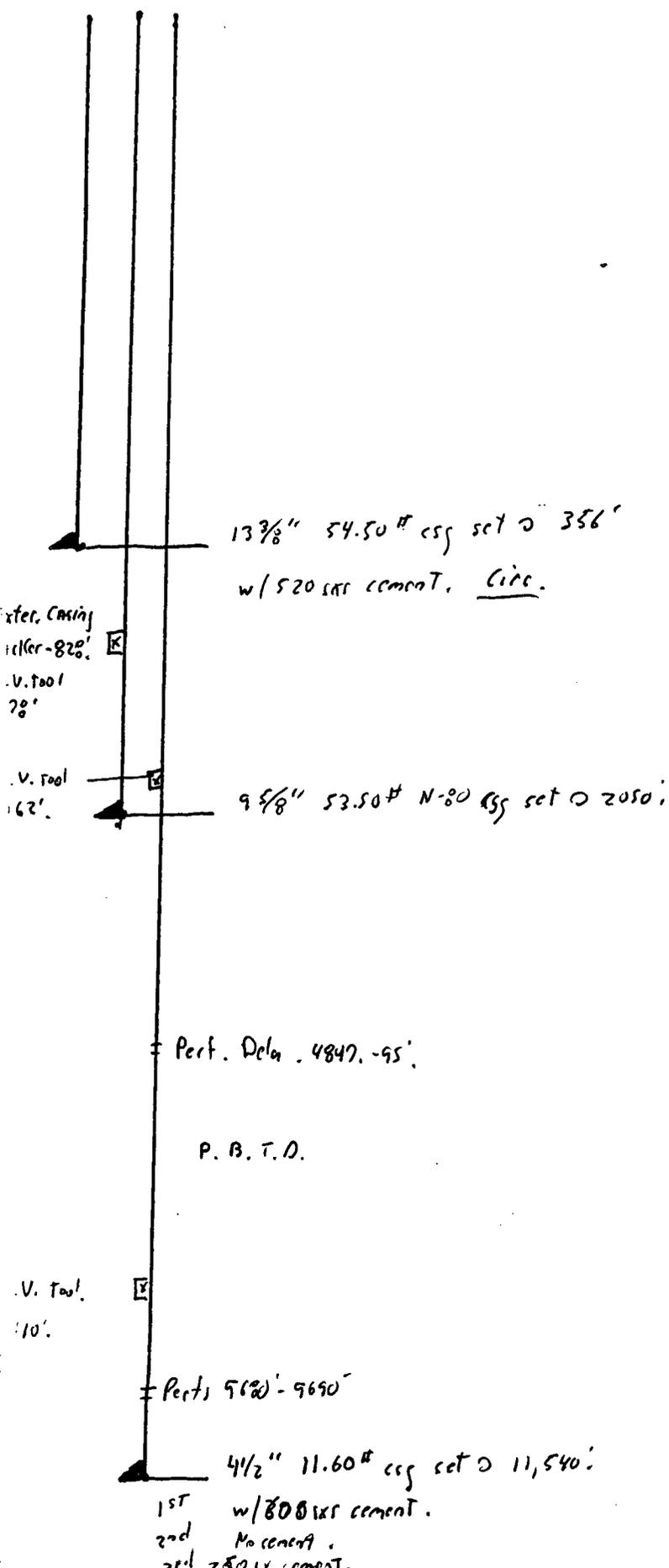
Melba

APR 2 1985

\*See Instructions on Reverse Side

Operator Collins + Ware, Inc.  
Well Muley Fed. 61 #1  
Unit 3 Section 26 Township 23S Range 25E  
API # 30-015--26995

Yates \_\_\_\_\_  
T. Salt \_\_\_\_\_  
B. Salt \_\_\_\_\_  
Glorieta \_\_\_\_\_  
Bone Sp. 4904'  
Abo \_\_\_\_\_  
Wolfcamp \_\_\_\_\_  
Morrow \_\_\_\_\_  
Devonian \_\_\_\_\_  
Fusselman \_\_\_\_\_  
Other T. Delaware - 2098'  
\_\_\_\_\_  
\_\_\_\_\_



History  
Well was Spool & Drilled 5/30/1992.  
Well was Plugged 9/10/1993.

RECEIVED

Form 3160-5  
(June 1990)

SEP 13 8 15 AM '93

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ARTESIA, NM 88210  
MINERS. COMMISSION

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

SUNDRY NOTICES AND REPORTS ON WELLS

SEP 30 1993

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.

5. Lease Designation and Serial No.  
NM 51073

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation  
NMMN 87873X

8. Well Name and No.  
Muley Fed. #1

9. API Well No.  
30-015-26975

10. Field and Pool, or Exploratory Area  
Dark Canyon Up Penn

11. County or Parish, State  
Eddy NM

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Collins & Ware, Inc.

3. Address and Telephone No.

303 W. Wall. Ste. 2200 Midland TX 79701

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

J. Sec. 26. T23S. R25E  
1433' FSL & 1459' FEL

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 P&A
	<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.)

9-9-93: Spot 25 sx. cement plug from 5200-5000'. GIH w/ CIBP and set @ 4825'.  
 9-10-93: Pressure test CIBP to 500#. Circ. hole w/9.5 PPG mud and spot 7 sx.(35') on CIBP. PU and spot 40 sx. cement plug from 2050-1850. 50 sx. cement plug from 356-106, 10 sx. cement plug @ surface. ND BOP, dig out cellar and cutoff wellhead. Weld on dryhole marker.

Final report: well P & A.

Approved as to plugging of the well bore.  
Liability under bond is retained until surface restoration is completed.

Post ID-2  
10-15-93  
P&A

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

Signed Max Guerry Title Regulatory Mgr. Date 9-10-93

(This space for Federal or State office use)

Approved by (ORIG. SIGN.) Title Petroleum Engineer Date 9/28/93  
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.

\*See Instruction on Reverse Side

cls

RECEIVED

JUN 19 1992

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

O. C. D.  
Bureau Office

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 Well  Gas Well  Other

2. Name of Operator  
 Collins & Ware, Inc.

3. Address and Telephone No.  
 303 W. Wall, Suite 2200, Midland, Texas 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1433' FSL & 1459' FEL of Sec. 26, T-23-S, R-25-E

5. Lease Designation and Serial No.  
 NM 51073

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement Designation

8. Well Name and No.  
 Muley Federal

9. API Well No.  
 1

10. Field and Pool, or Exploratory Area  
 Horseshoe Bend (Straw)

11. County or Parish, State  
 MORRO Eddy, New Mexico

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 Intermediate Casing
	<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

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.)\*

A 12.25" hole was drilled to 2050' K.B. on 6/3/92. Full returns were lost while drilling at 920' K.B. The hole was dry drilled to 2050'. A caliper log was run prior to running casing to determine the best possible setting depth for the external casing packer (a copy of Cardinal Wireline field print is enclosed). 9.625" 43.50, 47, and 53.50\*/ft., N-80 and S-95 Buttress casing was run and set at 2050' K.B. Top of external casing packer at 828.41' from surface. Top of D.V. tool at 778.08' from surface. Cemented first stage: 475 sacks Halliburton Lite with 1/2\*/sk., flocele, 2% CACL2, and 10\* Cal-Seal. (2.01 cu.ft./sk. yield, 12.7\*/gallon), tailed in with 200 sacks Premium Plus with 2% CACL2, (1.32 cu.ft./sk., 14.8\*/gallon weight). Dropped bomb and waited 6 hours, cement did not circulate. Cemented Second Stage: with 275 sacks Halliburton Lite with 1/4\* flocele/sk., 4% CACL2, and 6\* Gilsonite, (1.84 cu.ft./sk. yield, 12.7\*/gallon). Tailed in with 100 sacks Premium Plus with 4% CACL2 and 6\* gilsonite (1.32 cu.ft./sk., 14.8\*/gallon). Cement did not circulate Waited on cement for 3.5 hours and ran remperature survey, no cement top. Rig up to one-inch. Ran one inch 10 times with 35 sacks cement each run. Top of cement 686' after tenth run. Cemented with 255 sacks cement, circulated cement to surface. Set slips and nipped up, test to 2400 psig with rig pump. Cemented with a total of 570 sacks cement. Tested BOP, stack, safety valve to 5000 psig, tested hydrill 2000 psig.

NOTE: A cement Bond Log will be conducted on the 9.625" casing prior to running the next casing string.

Witnessed by the BLM

ACCEPTED FOR RECORD

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

Signed [Signature]

Title Agent for Collins & Ware, Inc Date 6/8/92

(This space for Federal or State office use)

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

Title \_\_\_\_\_ Date \_\_\_\_\_  
CARLSBAD, NEW MEXICO

CLSF

RECEIVED

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUN 1 1 1992

O. C. D.  
OCTOBER OFFICE

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 Well  Gas Well  Other

2. Name of Operator  
 Collins & Ware, Inc. ✓

3. Address and Telephone No.  
 303 W. Wall, Suite 2200, Midland, Texas 79701

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 1433' FSL & 1459' FEL of Sec. 26, T-23-S, R-25-E

5. Lease Designation and Serial No.  
 NM 51073

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 Muley Federal

9. API Well No.  
 1

10. Field and Pool, or Exploratory Area  
 Horseshoe Bend (Strat)

11. County or Parish, State  
 Eddy, New Mexico

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 Spud & Surface Casing
	<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.)\*

McVay Rig No. 10 spudded a 17.5" hole at 7:45 AM May 30, 1992. The 17.5" hole was drilled to a depth of 356' K.B. 13.375" 68, 61, and 54.50\*/ft., K55 ST&C casing was run and set at 356' K.B. Cemented with 370 sacks Premium Plus with 2% CACL2 (1.32 cu.ft./sk. yield, 14.8\*/gallon). Tailed in with 150 sacks Premium Plus cement with 4% CACL2 (1.32 cu.ft./sk. yield, 14.8\*/gallon). Plug down at 7:15 AM May 31, 1992. Circulated 140 sacks cement to reserve pit. Waited on cement 25 hours. Tested well head to 500 psig, and casing to 500 psig, O.K.

Witnessed by the BLM.

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

Signed J. E. [Signature] Title Agent for Collins & Ware, Inc. Date 6/8/92

(This space for Federal or State office use)

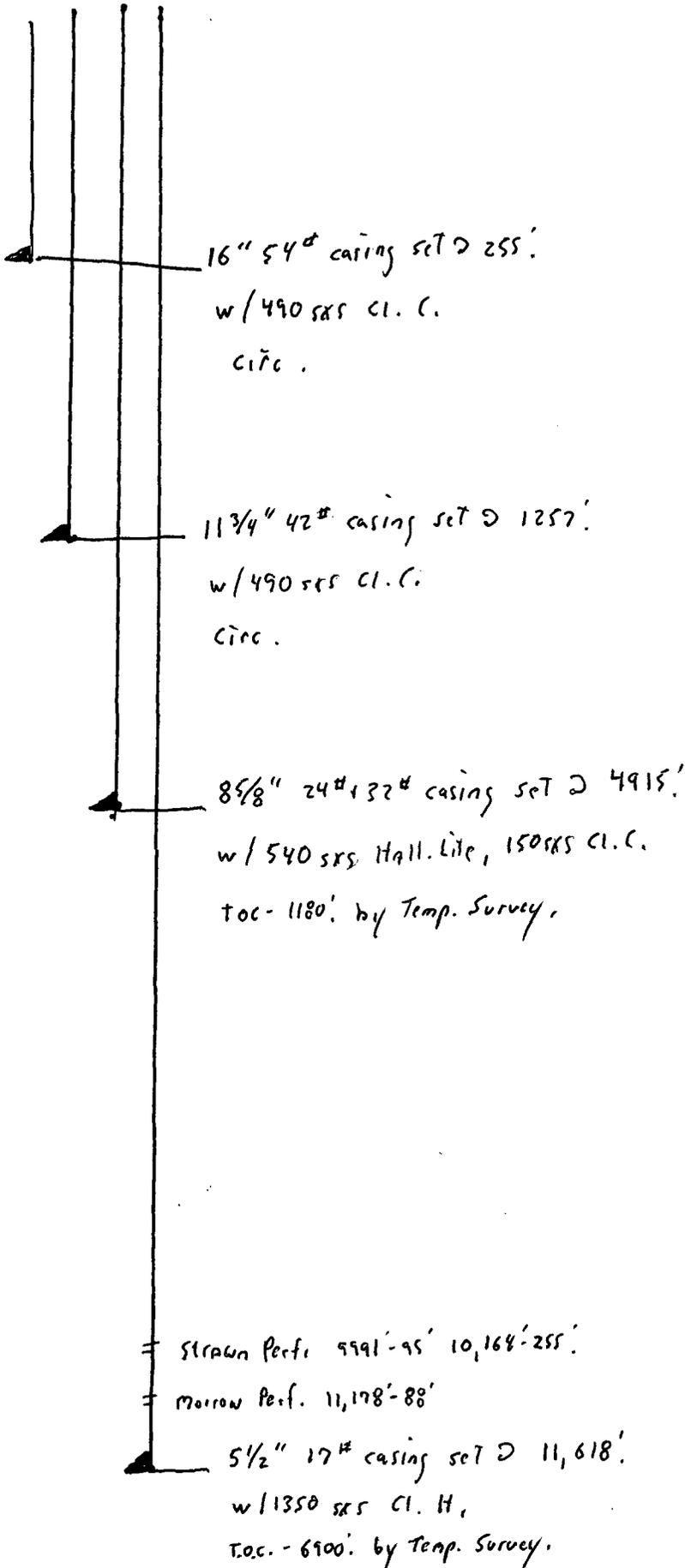
Approved by [Signature] Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any: JUN 9 1992

Operator Corinne Grace  
 Well Cueva Unit #1  
 Unit K Section 6 Township 23-S Range 26-E  
 API # 30-015 -- 2136Z

TOPS

Yates \_\_\_\_\_  
 T. Salt \_\_\_\_\_  
 B. Salt \_\_\_\_\_  
 Glorieta \_\_\_\_\_  
 Bone Sp. \_\_\_\_\_  
 Abo \_\_\_\_\_  
 Wolfcamp 8470'  
 Morrow 10,900'  
 Devonian \_\_\_\_\_  
 Fusselman \_\_\_\_\_  
 Other \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



NO. OF COPIES RECEIVED	3
DISTRIBUTION	
SANTA FE	1
FILE	1 ✓
U.S.G.S.	
LAND OFFICE	
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

DEC 26 1974

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease  
State  Fee   
5. State Oil & Gas Lease No.  
K-4535

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1.  OIL WELL  GAS WELL  OTHER-  
2. Name of Operator  
Corinne Grace ✓  
3. Address of Operator  
P. O. Box 1418, Carlsbad, New Mexico  
4. Location of Well  
UNIT LETTER K 1980 FEET FROM THE South LINE AND 1980 FEET FROM  
THE West LINE, SECTION 6 TOWNSHIP 23S RANGE 26E NMPM.  
7. Unit Agreement Name  
Cueva Unit  
8. Farm or Lease Name  
Cueva Unit  
9. Well No.  
1  
10. Field and Pool, or Wildcat  
Wildcat  
15. Elevation (Show whether DF, RT, GR, etc.)  
12. County  
Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data  
NOTICE OF INTENTION TO:      SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
FULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

11/26/74 Cemented 255' of 16" 54# surface casing with 490 sacks Class "C" w/2% Cal. Cl. circulated to surface. Pumped 16" wooden plug down at 8:38 a.m. W.O.C. 24 hours

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Quanita R. Jones TITLE Agent DATE 12/20/74

APPROVED BY W. A. Gussert TITLE SUPERVISOR, DISTRICT II DATE JAN 16 1975

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	3
DISTRIBUTION	
SANTA FE	1
FILE	1 ✓
U.S.G.S.	
LAND OFFICE	
OPERATOR	1

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

JUN 16 1975

5a. Indicate Type of Lease
State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>
5. State Oil & Gas Lease No.
K-4535

SUNDRY NOTICES AND REPORTS ON WELLS

O. C. C. ARTESIAN OFFICE

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)

<input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. Unit Agreement Name
8. Name of Operator	Cueva Unit
Corinne Grace	8. Farm or Lease Name
9. Address of Operator	Cueva Unit
P. O. Box 1413, Carlsbad, New Mexico 88220	9. Well No.
10. Location of Well	1
UNIT LETTER <u>K</u> 1980 FEET FROM THE <u>South</u> LINE AND 1980 FEET FROM <u>West</u> LINE, SECTION <u>6</u> TOWNSHIP <u>23S</u> RANGE <u>26E</u> NMPM.	10. Field and Pool, or Wildcat
	<u>Wildcat Indecis</u>
15. Elevation (Show whether DF, RT, GR, etc.)	12. County
3418.7	Eddy

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703.

Run and set 11 3/4" 12#/ft. H-40 ST&C Casing Range 3 at 1257'  
Cemented with 515 sks. Class "C" cement, 11 sks. CaCl.  
Set first plug @ 788 ft. w/50 sacks, Second plug @ 788' w/50, sks, third plug @ 788' w/50 sk.  
Set Fourth plug @ 603' w/50 sks, set Plug 5 @ 400 ft. w/50 sks, Set Plug #6 @ 355 ft. 50 sk.  
Set last plug @ 355 to surface 150 sks. Rec. full returns (circulated). WOC 24 hrs.

NOTE: Cemented water flow and boulders prior to running 11 3/4" casing by displacing 5 cement plugs from 402' to 230'. Tested below 16" casing at 270' with 250 psi. Drilled out cement plugs, lost circulation. Plugs held.

See attached Field Report.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED [Signature] TITLE Agent DATE 6/13/75

APPROVED BY [Signature] TITLE SUPERVISOR, DISTRICT II DATE JUN 18 1975

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED

CUEVA UNIT # 1  
SECTION 6, T23S, R26E  
EDDY COUNTY, NEW MEXICO

OCT 9 1974

O. C. C.  
ARTESIA, OFFICE

September 14, 1974	Spudded at 9:00 a.m. with Abbott Bros. Rat hole and drilled to a depth of 30'-24" hole. Abbott Bros. Drilling Co. on location and ready to set up at 1:30 p.m. Abbott Bros. rigged up and set conductor pipe to a depth of 30'.
September 15, 1974	Drilling out from under pipe.
September 16, 1974	Mudding hole and drill to 32'.
September 17, 1974	Drilled from 32' to 40'.
September 18, 1974	Drilled from 40' to 50' in clay.
September 19, 1974	Drilled from 50' to 60' in clay. 16" hole.
September 20, 1974	Drilled from 60' to 64' in clay. 16" hole.
September 21, 1974	Drilled from 64' to 67' in clay. " "
September 22, 1974	Drilled from 67' to 70' in clay. " "
September 23, 1974	Rained out.
September 24, 1974	Tried to get into location and could not due to rain.
September 25, 1974	Tried to get into location and got stuck.
September 26, 1974	Drilled from 70' to 73' in red clay.
September 27, 1974	Drilled from 73' to 78' in red clay.
September 28, 1974	Drilled from 78' to 83' in red clay.
September 29, 1974	Drilled from 83' to 88' in red clay.
September 30, 1974	Drilled from 88' to 95' in red clay.
October 1, 1974	Drilled from 95' to 105' in red clay.
October 2, 1974	Drilled from 105' to 115' in red clay.
October 3, 1974	Drilled from 115' to 120' in limestone.
October 4, 1974	Drilled from 120' to 125' in limestone.
October 5, 1974	Drilled from 125' to 130' in clay.
October 6, 1974	Drilled from 130' to 135' in limestone.

CUEVA UNIT # 1  
SECTION 6, T23S, R26E  
EDDY COUNTY, NEW MEXICO

October 7, 1974 Drilled from 135' to 142' in limestone.  
October 8, 1974 Drilled from 142' to 157' in limestone.  
October 9, 1974 Drilled from 157' to 166' in limestone.  
October 10, 1974 Drilled from 166' to 175' in limestone.  
October 11, 1974 Drilled from 175' to 182' in limestone.  
October 12, 1974 Drilled from 182' to 192' in limestone.  
October 13, 1974 Drilled from 192' to 201' in limestone.  
October 14, 1974 Couldn't get into location due to rain.  
October 15, 1974 Drilled from 201' to 212' in limestone.  
October 16, 1974 Move rig off to finish location.  
October 17, 1974 Building location.  
October 18, 1974 Still building location.  
October 19, 1974 Still building location.  
October 20, 1974 Still building location.  
October 21, 1974 Finish building location.  
October 22, 1974 Couldn't get into location.  
October 23, 1974 Couldn't get into location.  
October 24, 1974 Couldn't get into location.  
October 25, 1974 Couldn't get into location.  
October 26, 1974 Move rig back on location and started drilling and drilled to 221'.  
October 27, 1974 Drilled from 221' to 230'.  
October 28, 1974 Drilled from 230' to 235' in limestone,  
October 29, 1974 Drilled from 235' to 245' in limestone. 16" hole.  
October 30, 1974 Drilled from 245' to 254' in limestone. 16" hole.  
October 31, 1974 Drilled from 254' to 265' in limestone.  
November 1, 1974 Hole caving in and cleaning out.  
November 2, 1974 Cleaning out and drilled from 265' to 267' in rock.  
November 3, 1974 Cleaning out and drilled from 267' to 268' in rock.

RECEIVED

NOV 6 1974

O. C. C.  
ARTESIA, OFFICE

GUEVA UNIT # 1  
SECTION 6, T23S, R26E  
EDDY COUNTY, NEW MEXICO

November 30, 1974	Drilled 260' to 265' in lime, 15 $\frac{1}{2}$ " hole.
December 1, 1974	Drilled 265' to 270' in lime.
December 2, 1974	Drilled 270' to 275' in lime.
December 3, 1974	Drilled 275' to 281' in lime.
December 4, 1974	Drilled 281' to 285' in lime.
December 5, 1974	Drilled 285' to 289' in lime.
December 6, 1974	Drilled 289' to 294' in lime.
December 7, 1974	Drilled 294' to 296' in lime.
December 8, 1974	Drilled 296' to 300' in lime.
December 9, 1974	Drilled 300' to 305' in lime and gyp.
December 10, 1974	Drilled 305' to 306' in lime and gyp.
December 11, 1974	Drilled 306' to 309' in lime and gyp.
December 12, 1974	Drilled 309' to 312' 16 $\frac{1}{2}$ inch hole.
December 13, 1974	Drilled 312' to 316' in lime and gyp.
December 14, 1974	Drilled 316' to 320' in lime and gyp.
December 15, 1974	Drilled 320' to 325' in lime and gyp.
December 16, 1974	Drilled 325' to 330' in lime and gyp.
December 17, 1974	Drilled from 330' to 334' in lime and gyp.
December 18, 1974	Drilled from 334' to 339' in lime and gyp.
December 19, 1974	Drilled from 339' to 345' lime in gyp.
December 20, 1974	345' to 350' lime in gyp.
December 21, 1974	Drilled from 350' to 355' lime in anhydrite.
December 22, 1974	Drilled from 355' to 360' lime in anhydrite.
December 23, 1974	Drilled from 360' to 365' lime in anhydrite.
December 24, 1974	Drilled from 365' to 371' lime in anhydrite.
December 25, 1974	Shut down.
December 26, 1974	Drilled from 371' to 375' lime in anhydrite.

RECEIVED

DEC 30 1974

O. C. O.  
ARTESIA OFFICE

GUEVA UNIT #1  
SECTION 6, T23S, R26E  
Eddy County, New Mexico

December 27, 1974 Drilled from 375' to 378' lime and anhydrite.  
December 28, 1974 Drilled from 378' to 380' lime and anhydrite.  
December 29, 1974 Drilled from 380' to 382' lime and anhydrite.  
December 30, 1974 Drilled from 382' to 385' lime and anhydrite.  
December 31, 1974 Drilled from 385' to 387' lime and anhydrite.  
January 1, 1975 Drilled from 387' to 390' lime and anhydrite.  
January 2, 1975 Drilled from 390' to 393' lime and anhydrite.  
January 3, 1975 Drilled from 393' to 395' lime and gyp. (problems with hole casing.)  
January 4, 1975 Drilled from 395' to 397' lime and gyp. (problems with hole casing.)  
January 5, 1975 Drilled from 397' to 400' lime and gyp. (problems with hole casing.)  
January 6, 1975 Drilled from 400' to 403' lime and gyp.  
January 7, 1975 Drilled from 403' to 406' lime and gyp.  
January 8, 1975 Cleaning out.  
January 9, 1975 Cleaning out.  
January 10, 1975 Drilled from 406' to 408' lime and gyp.  
January 11, 1975 Drilled from 408' to 410' lime and gyp.  
January 12, 1975 Drilled from 410' to 412' lime and gyp.  
January 13, 1975 Drilled from 412' to 414' lime and gyp.  
January 14, 1975 Drilled from 414' to 417' lime and gyp.  
January 15, 1975 Drilled from 417' to 420' lime and gyp.  
January 16, 1975 Drilled from 420' to 423' lime and gyp.  
January 17, 1975 Cleaning out.  
January 18, 1975 Cleaning out.  
January 19, 1975 Cleaning out.  
January 20, 1975 Cleaning out.  
January 21, 1975 Cleaning out.  
January 22, 1975 Cleaning out.  
January 23, 1975 Cleaning out.

RECEIVED

JAN 27 1975

G. I. D.  
GEOLOGICAL OFFICE

CUEVA UNIT #1  
SECTION 6, T23S, R26E  
EDDY COUNTY, NEW MEXICO

RECEIVED

JUN 11 1975

O. C. C.  
ARTESIA, OFFICE

- May 30, 1975 From 230 to 384 Cement 2 hrs. W.O.C. tagged top of Cement @250  
6 hrs. drlg cement From 384 to 1020 3½ hrs. Drlg cement &  
sand bridge 2 hrs. Trip F/DC 2½ hrs. Drlg & Wash down 800' to 1020  
From 1020' to 1171' Dept. 1130' Dev. 2° 3½ hr. finish wast to  
bottom 6 hrs. drlg ¼ hr. Survey ¾ hr. drlg ¼ hr. pull out  
to mix mud.
- May 31, 1975 From 1171 to 1201 3½ hrs. mixing mud trip in hole ½ hr. drlg  
½ hr. pull out to mix mud ¾ hrs. mix mud & trip in hole ½ hr. d  
From 1201 to 1257 ¼ hr. Pull 3sks D.P. 2½ hrs. Mix mud & Trip  
in hole 3 ¾ hrs. drlg 1½ hrs. circ. From 1257 Dept. 1257 Dev.  
Pump Mud slug in hole ¾ hrs. ¾ hrs. trip out to run csng  
4½ hrs. rig up & run Csng ½ hr. rig up Halliburton & break circ.  
¾ hrs. cementing CSNG ¾ hr. W.O.C. Plug down @ 10:15 p.m.
- June 1, 1975 From 1257 8 hrs. W.O.C. & Ran temp. survey  
3 hrs. W.O.C. 5 hrs. Work 1¼" pipe by 11 ¾ CSG  
3 hrs. working 1¼" pipeby CSNG ½ hr. Break circ. & cementing  
3 hrs. WOC ½ hr. cementing 1 hr. WOC
- June 2, 1975 From 1257 3 hrs. WOC ½ hr. pump cement down Plug down 2:30  
2 hrs. WOC ½ hr. Pump cement plug down 2 hrs. WOC 1 hr. WOC  
½ hr. Pump Cement down 1¼ pipe 3 hrs. WOC ½ hr. Pump Cement  
3 hrs. WOC 4 hrs. Finish cementing 4 hrs. WOC cut pipe off  
weld head start to put B.O.P. on.
- June 3, 1975 From 1257' Finish nipling up Go in hole W/5 DC & DP to drill Plug  
Test 11 ¾ CSG W/900 lbs. OK Drill Cement Plug & shoe joint  
From 1257' to 1335' in anhy. & Lime 2 hrs. Drlg Cement & Shoe Jr.  
½ hr. Drlg 1 ¾ hrs. Trip Fl D.C. & Two stb 3 ¾ hrs. Drlg  
2 hrs. Co time W/DP  
From 1335' to 1476' in anhy & lime 4 hrs. Drlg. 1 hr. tighten  
unions & Swivl & hose 3 hrs. drlg.
- June 4, 1975 From 1476' to 1630' in anhy. & lime 8 hrs. drlg  
From 1630' to 1780' in lime Depth. 1650' Dev. 1½° ¾ hrs. Drlg  
½ hr. Totco 6½ hrs. Drlg. From 1780' to 1876 in lime Depth. 1870'  
Dev. 1° 4 hrs. drlg 3½ hrs. trip lay down reamers change 1 barrel  
½ hrs. drlg
- June 5, 1975 From 1876 to 2072' in lime 8 hrs. Drilling  
From 2072 to 2202 in lime 1 hr. drilling 2 hrs. Repair air line  
& Relined M+r Clutch 5 hrs. Drilling  
From 2202 to 2415 in lime Depth. 2353' Dev. ¾°  
7½ hrs. drilling ¼ hr. Survey ½ hr. drilling.
- June 6, 1975 From 2415 to 2694 in lime 8 hrs. drilling  
From 2694 to 2970 in lime 5½ hrs. drilling ½ hr. Totco 2 hrs. Drill  
From 2970 to 3270 in lime 8 hrs. drilling.
- June 7, 1975 From 3270 to 3517 Depth 3335 Dev. ¾° 2 hrs. drilling ½ hr. Dev  
Survey on W.H. 5½ hrs. drilling From 3517 to 3711 in lime 8 hrs.  
From 3711 to 3887 in lime Depth 3905 Dev. ½° 6½ hrs. drilling  
¼ hr. survey 2½ hrs. drilling



275

16"



WTE FLOW 275

16" - 272XB

312  
w/1/4 SX 706

50 SX PAGES @ 2700 P/L DRA WTR 355'  
 50 ST PAGES @ 2700 CC CORRELATING 360'

BRIDGE @ 413-504 50 BRIDGE ON OPEN HOLE

50 SX @ 571' 2% CACCL 'C'

STAGES 50 SX @ 788' 2% CACCL 'C'

BASKET 808

BASKET - 847

BASKET - 889

BASKET - 929

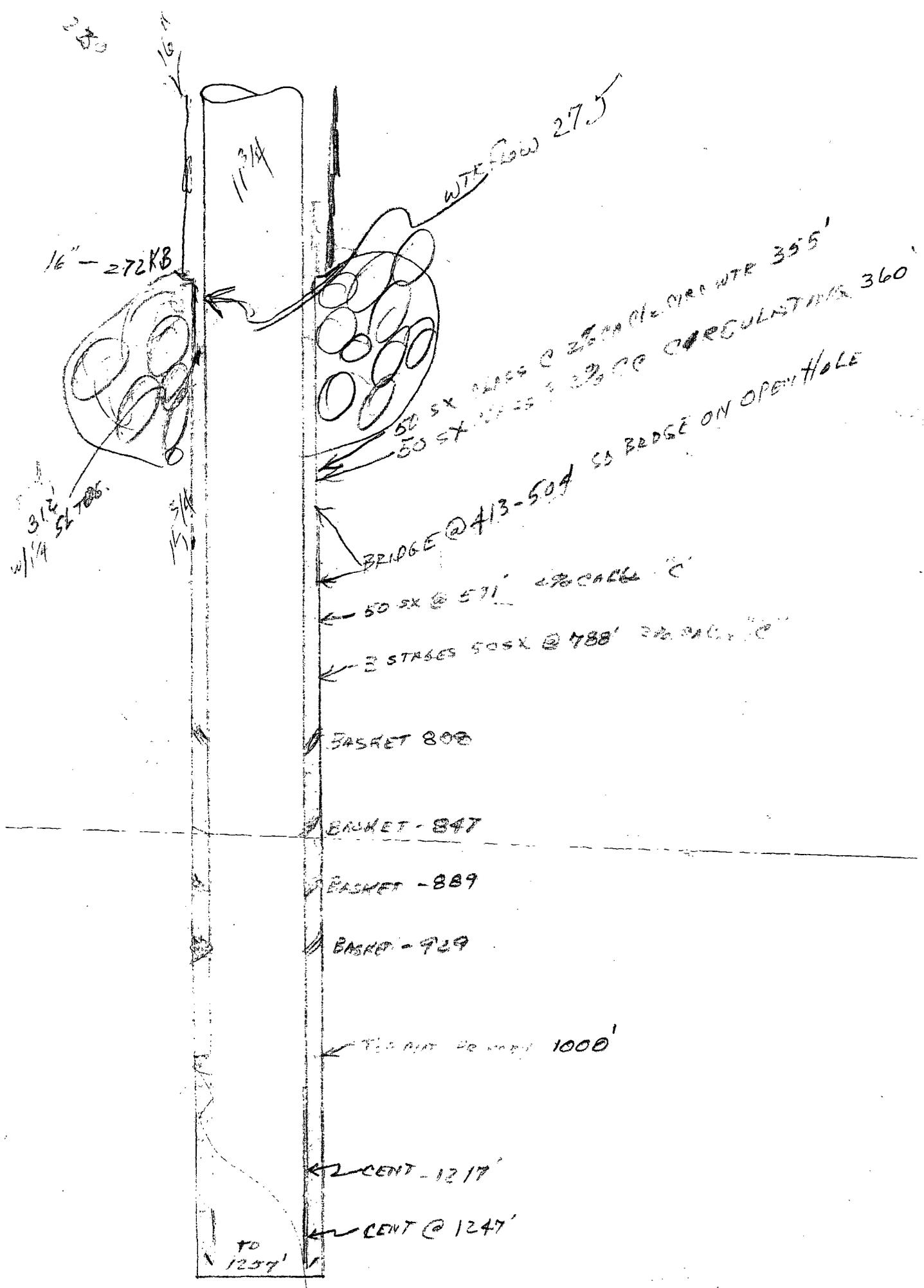
TIE IN DEPTH 1000'

CENT - 1217'

CENT @ 1247'

TO 1257'



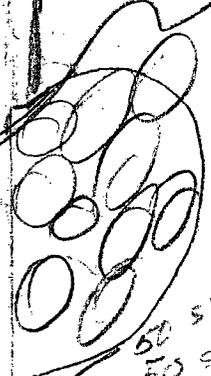


16" - 272KB

WTE flow 27.5

3 1/2"  
w/1/4 SS TUBS

5/16"  
K



50 SX BRGS @ 250' DIAMETER 355'  
50 SX BRGS @ 250' DIAMETER 360'

BRIDGE @ 413-504 SS BRIDGE ON OPEN HOLE

← 50 SX @ 571' 27% CALL "C"

← 2 STAGES 50SX @ 788' 27% CALL "C"

BASKET 808

BASKET - 847

BASKET - 889

BASKET - 929

← TEST PIT 20' DEEP 1000'

← CENT - 1217'

← CENT @ 1247'

TO  
1257'

NEW MEXICO OIL CONSERVATION COMMISSION  
FIELD TRIP REPORT

Name B. W. Weaver Date 2-25-85 Miles \_\_\_\_\_ District II  
Time of Departure \_\_\_\_\_ Time of Return \_\_\_\_\_ Car No. 659

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature \_\_\_\_\_

1 well @ 7-23-26 Exxon Corp Newman #1 (P+H) Set  
Cast Iron Bridge Plug @ 4200 Test Casing to 1000 PSI would not hold  
Ran 2nd CIBP set at 4164 and Test to 1000 PSI would not hold  
Put 10 SX Cement on Top of Bridge Plug Let Set

2-26-85

Test Casing to 1000 PSI would not Test Ran Packer and Found  
Hole @ 3495 Squeezed with 50 SX Class C 2% CC

2-27-85

Pressured up on Squeeze Job Test to 1000 PSI O.K. Pulled Packer  
Perforated casing @ 2535 Tried to Circulate Could Not Set 20 SX  
Class C 2% CC Tagged @ 2304 Perforated @ 1320 Circulated  
With Mud to Surface with mud and spilted 30 SX Class C 3% CC. Perforated  
@ 50 Ft and Circ Cement to Surface

<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

INSPECTION CLASSIFICATION

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- H - Housekeeping
- P - Plugging
- C - Plugging Cleanup
- T - Well Test
- R - Repair/Workover
- F - Waterflow
- M - Mishap or Spill
- W - Water Contamination
- O - Other

- U - Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R - Inspections relating to Reclamation Fund Activity
- O - Other - Inspections not related to injection or The Reclamation Fund

- D - Drilling
- P - Production
- I - Injection
- C - Combined prod. inj. operations
- S - SWD
- U - Underground Storage
- G - General Operation
- F - Facility or location
- M - Meeting
- O - Other

E - Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

**NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104  
Supersedes Old C-104 and  
Effective 1-1-65

DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL /
	GAS /
OPERATOR	/
PRORATION OFFICE	

**RECEIVED**

MAR - 1 1978

Operator  
**Hanagan Petroleum Corporation** ✓

Address  
**P.O. Box 1737, Roswell, New Mexico 88201**

Reason(s) for filing (Check proper box)  
 New Well  Change in Transporter of:  
 Recompletion  Oil  Dry Gas   
 Change in Ownership  Casinghead Gas  Condensate

Other (Please explain)

**O. C. C.  
ARTESIA, OFFICE**

If change of ownership give name and address of previous owner

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name <b>Newman</b>	Well No. <b>1</b>	Pool Name, including Formation <b>BrynesTank-Middle Delaware Gas</b>	Kind of Lease State, Federal or Fee <b>State</b>	Lease No. <b>K 4761-3</b>
Location Unit Letter <b>'0</b> ; <b>2300</b> Feet From The <b>East</b> Line and <b>660'</b> Feet From The <b>South</b>				
Line of Section <b>7</b> Township <b>23 South</b> Range <b>26 East</b> , NMPM, <b>Eddy</b> County				

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <b>Navajo Crude Oil Purchasing Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>P.O. Box 175, Artesia, New Mexico 88210</b>			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <b>Transwestern Pipeline Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>P.O. Box 2521, Houston, Texas 77001</b>			
If well produces oil or liquids, give location of tanks.	Unit <b>0</b>	Sec. <b>7</b>	Twp. <b>23S</b>	Rge. <b>26E</b>
Is gas actually connected? <b>Yes</b>		When <b>3-31-78</b>		

If this production is commingled with that from any other lease or pool, give commingling order number:

**IV. COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Date Spudded <b>2/15/75</b>	Date Compl. Ready to Prod. <b>5/23/77</b>		Total Depth <b>11,625'</b>		P.B.T.D. <b>4620 (Temp.)</b>			
Elevations (DF, RKB, RT, GR, etc.) <b>3454 KB</b>	Name of Producing Formation <b>Middle Delaware</b>		Top Oil/Gas Pay <b>4247</b>		Tubing Depth <b>4098</b>			
Perforations <b>4247-56</b>					Depth Casing Shoe <b>4920</b>			

**TUBING, CASING, AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
20"	16"	96	180
14 3/4" & 12 1/4"	9 5/8"	2480	1050
8 1/2"	4 1/2"	4920	675
	2 3/8"	4098	

**V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL**

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

*Pasted  
4/11/78  
add  
GT-TWP*

**GAS WELL**

Actual Prod. Test - MCF/D <b>CAOF 4044.4</b>	Length of Test <b>4 hrs.</b>	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	

**OIL CONSERVATION DIVISION**  
 P. O. BOX 2088  
 SANTA FE, NEW MEXICO 87501  
 RECEIVED  
**JUL 27 1984**  
 O. C. D.  
 ARTESIA, OFFICE

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	<input checked="" type="checkbox"/>
FILE	<input checked="" type="checkbox"/>
U.S.G.S.	
LAND OFFICE	<input checked="" type="checkbox"/>
OPERATOR	<input checked="" type="checkbox"/>

5a. Indicate Type of Lease  
 State  Fee   
 5. State Oil & Gas Lease No.  
**K 4761-3**

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER-	7. Unit Agreement Name
2. Name of Operator <b>EXXON CORPORATION</b>	8. Farm or Lease Name <b>NEWMAN STATE</b>
3. Address of Operator <b>Box 1600, MIDLAND, TEXAS 79702</b>	9. Well No. <b>1</b>
4. Location of Well UNIT LETTER <b>O</b> <b>2300</b> FEET FROM THE <b>EAST</b> LINE AND <b>660</b> FEET FROM THE <b>SOUTH</b> LINE. SECTION <b>7</b> TOWNSHIP <b>23S</b> RANGE <b>26E</b> NMPM.	10. Field and Pool, or Whidcat <b>BRYNES TANK DELAWARE</b>

15. Elevation (Show whether DF, RT, GR, etc.) <b>3438 GR</b>	12. County <b>EDDY</b>
---	---------------------------

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> OTHER _____ <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/> COMMENCE DRILLING OPNS. <input type="checkbox"/> CASING TEST AND CEMENT JOB <input type="checkbox"/> OTHER _____ <input type="checkbox"/>
PLUG AND ABANDON <input checked="" type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703. 95% @ 2500'

- PULL RODS AND PUMP TEST BOP TO 2000 PSI. PULL TBG.
- SET CIRP AT 4200' - CAP W/100' CMT. PRESSURE TEST CSG TO 1000 PSI.
- PERF CSG @ 2535' W/4SPF. RIH W/OPEN ENDED TBG TO PBTD (4100'). CIRC 4 1/2" CSG AND 4 1/2" X 9 5/8" ANNULUS W/9.5 PPG (MIN) BRINE WATER CONTAINING 25-100 LB SACK SALT GEL PER 100 bbl. (APPROX VOL IS 200 bbl.)
- PULL TBG TO 2535'. ESTABLISH CIRC THROUGH TBG ANNULUS @ CSG X CSG ANNULUS. SPOT A 30SX PLUG OF CMT (CLASS C, 3% CACL2) BY BALANCED PLUG METHOD. WOC. PRESSURE TEST PLUG TO 500 PSI.
- PERF CSG @ 1320' AND @ 50' W/4SPF. RIH W/OPENED TBG TO TAG TO C. CM FIRST PLUG (SHOULD BE 2435' MIN. OTHERWISE SPOT CMT TO MAKE UP THE DIFFERENCE) PULL TBG TO 1320' AND SPOT A 30SX PLUG OF CLASS C, 3% CACL2, BY BALANCED PLUG METHOD. KEEP BOTH ANNULI OPEN. PULL TBG TO 50' AND CIRC CMT TO SURFACE FOR FINAL PLUG.
- CUT WELLHEAD OFF AND INSTALL PERMANENT DRY HOLE MARKER. CLEAN AND LEVEL LOCATION.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED *D. P. Jones* TITLE SR ADMIN. DATE 7-26-84

APPROVED BY BY LARRY BROOKS TITLE JUL 21 1984 DATE JUL 31 1984  
 GEOLOGIST - NMOC

CONDITIONS OF APPROVAL, IF ANY

NO. OF COPIES RECEIVED	3
DISTRIBUTION	
SANTA FE	1
FILE	1 ✓
U.S.G.S.	
LAND OFFICE	
OPERATOR	1

NEW MEXICO OIL CONSERVATION COMMISSION

RECEIVED

JUL 8 1975

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

5a. Indicate Type of Lease  
State  Fee   
5. State Oil & Gas Lease No.  
K-4761-3

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

O. C. C.

ARTESIAN OFFICE

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER- 2. Name of Operator HANAGAN PETROLEUM CORPORATION ✓ 3. Address of Operator P. O. Box 1737, Roswell, New Mexico 88201 4. Location of Well UNIT LETTER 0, 2300 FEET FROM THE East LINE AND 660 FEET FROM THE South LINE, SECTION 7 TOWNSHIP 23 South RANGE 26 East NMPM. 15. Elevation (Show whether DF, RT, GR, etc.) 3438' GR, 3454' KB	7. Unit Agreement Name --- 8. Farm or Lease Name Newman-Com 9. Well No. 1 10. Field and Pool, or Wildcat Wildcat 12. County Eddy
--	---

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER PB-Treatment - Testing <input checked="" type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

6/13/75: TD 11625  
6/16/75: PBTD 4920 - Set 35 sx Class "H" plugs w/hvy. drlg. mud between plugs as verbally approved by Mr. Gressett: 11000-11100', 10000-10100', 8500-8600', 6100-6200', and 55 sx plug 4910-5040', went in & dressed off top plug to 4920'.  
6/18/75: Ran 122 jts. of 4½" 11.60# N80 LT&C csg. set @ 4920', cmtd. w/675 sx 50/50 posmix 3% KCL/sx., plug down @ 4:50 AM, 6/18/75.  
6/27/75: MI workover unit, OTD 11625, PB 4920, NPB 4859, perf. 2 2/8" SPF Delaware 4781-90, ran 2-3/8" tbg., broke perfs. w/100 gals. acetic acid, swbd. dry w/small flare gas, 9 hr. SITP 700#, swb. tr oil & small flare gas, swb. dry - A/2000 gals. MA acid w/500 MCF N₂/bbl., avg. press. 3350# @ 7.2 BPM, flowed & swb. back load w/small amt. oil & gas swb. dry, 23½ hr. SITP 1500# - Frac 13,000 gals. Wes Foam + 10,200# sd., inj. rate 12 BPM, Avg. treat. press. 5550#, flowed back most load w/good show oil & gas.  
7/4/75: Rigged up test equipment.  
7/5 to 7/7/75: Testing well, well F/38½ BO + 37 BW/8½ hrs., 16/64" ck., FTP 950#.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Hugh C. Hanagan TITLE Vice President DATE 7/7/75

APPROVED BY W. A. Gressett TITLE SUPERVISOR, DISTRICT II DATE JUL 10 1975

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED	3
DISTRIBUTION	
SANTA FE	/
FILE	/
U.S.G.S.	
LAND OFFICE	
OPERATOR	/

**RECEIVED**  
NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

MAY 20 1975

**O. C. C.**  
ARTESIA OFFICE

5a. Indicate Type of Lease  
State  Fee

5. State Oil & Gas Lease No.  
K-4761-3

**SUNDRY NOTICES AND REPORTS ON WELLS**

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER- 2. Name of Operator Hanagan Petroleum Corporation ✓ 3. Address of Operator P. O. Box 1737 Roswell, New Mexico 88201 4. Location of Well UNIT LETTER 0 2300 FEET FROM THE East LINE AND 660 FEET FROM THE South LINE, SECTION 7 TOWNSHIP 23S RANGE 26E NMPM.	7. Unit Agreement Name ----- 8. Farm or Lease Name Newman-Com 9. Well No. 1 10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 3438 GR	12. County Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1 f03.

5/12/75: Started drilling operations w/Rotary Moranco Contractor, 5/12/75 T.D. Ream 6" hole to 20" hole to 96' ran 3 jts. 16' 65# Casing, set @ 96' w/180 sx. Class "C" + 2% Ca Cl. Plug down @ 3:10 PM 5/12/75 cement circ., w/80 sx. excess, 1.32 Slurry Vol. cu. ft./sx. 75° temp. when Slurry mixed, est. fm. temp. 65°, compressive strenght 565#, tested csg. w/500# 30", no press drop, drlg. Plug 3:00 AM 5/13/75 WOC 12 hrs.

5/17/75: T.D. 2480' sd. & lm. (14-3/4" & 12 1/2" hole), Ran 60 jts. 9-5/8" 40# ST&C & 36# LT&C csg. set @ 2480' & cmt. w/900 sx. Howco Light 1/4# flocel 2% Ca Cl + 150 sx. Class "C" w/2% Ca Cl, plug down 4:15 AM 5/17/75. Cement circ. w/65 sx. excess, 5/17/75 11:00 PM press up csg. 1800#/30", no press drop. Began making new hole @ 12:00 PM 5/17/75.

Witnessed by Leon Bergstrom  
Field Supervisor

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED M.L. Southerland TITLE Agent DATE 5/19/75

APPROVED BY Leon Bergstrom TITLE SUPERVISOR, DISTRICT II DATE MAY 20 1975

CONDITIONS OF APPROVAL, IF ANY:

15' K.B TO G.L.

NEW MEXICO OIL CONSERVATION COMMISSION  
DRAWER DD  
ARTESIA, NEW MEXICO

FIELD REPORT FOR CEMENTING OF WELLS

Operator <i>Hanagan Petr. Corp.</i>		Lease <i>Newman Com.</i>			Well # <i>1</i>
Location of Well	Unit <i>6605 2300c</i>	Section <i>7</i>	Township <i>23</i>	Range <i>26</i>	County <i>Eddy</i>
Drilling Contractor <i>Lidwell - Moreno</i>	Type of Equipment <i>CT + Rotary</i>				

\* Witness APPROVED CASING PROGRAM *to start approx. 2-13-75*

Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
<i>20</i>	<i>16"</i>	<i>65"</i>		<i>100</i>	<i>225 cas.</i>
<i>14 3/4" + 12 1/4"</i>	<i>9 7/8"</i>	<i>36 + 40</i>		<i>2500</i>	<i>800 cas.</i>
<i>8 1/2" + 7 7/8"</i>	<i>5 1/2"</i>	<i>17 + 20</i>		<i>11700</i>	<i>500</i>

Casing Data: *15100 FT K.B TO G.L.*  
*INTER 8* — joints of *9 5/8* inch *40* # Grade *K. 55 NEW 8 RT STEEL*  
*Surface 52* — joints of *9 5/8* inch *30* # Grade *K. 55 NEW 8 RT STEEL*  
*RANGE 3* (Approved) (~~Rejected~~) *LOME STAR*

Inspected by *Leon Bergstrom* date *5-16-75*

Cementing Program  
*1474-1055*  
Size of hole *12 1/4 - 2480* Size of Casing *9 5/8* Sacks cement required  
Type of Shoe used *GUIDE* Float collar used *INSERT* Btm 3 jts welded *YES*  
TD of hole *2480 KB* Set *2489* Feet of *9 7/8* Inch *36 + 40* # Grade *K. 55 NEW 8 RT STEEL*  
New-used csg. @ *2480 KB* with *150* sacks neat cement around shoe + *2% CA C/L*  
+ *900* sax *HOWCO LITE* additives *1/4 FLOCEZE + 2% CA C/L*

Plug down @ *4<sup>15</sup>* (AM) (PM) Date *5-17-75*

Cement circulated *YES* No. of Sacks *65* SX C/L TO PIT

Cemented by *HALLIBURTON* Witnessed by *Leon Bergstrom*

Temp. Survey ran @ (AM) (PM) Date top cement @

Casing test @ (AM) (PM) Date

Method Used Witnessed by

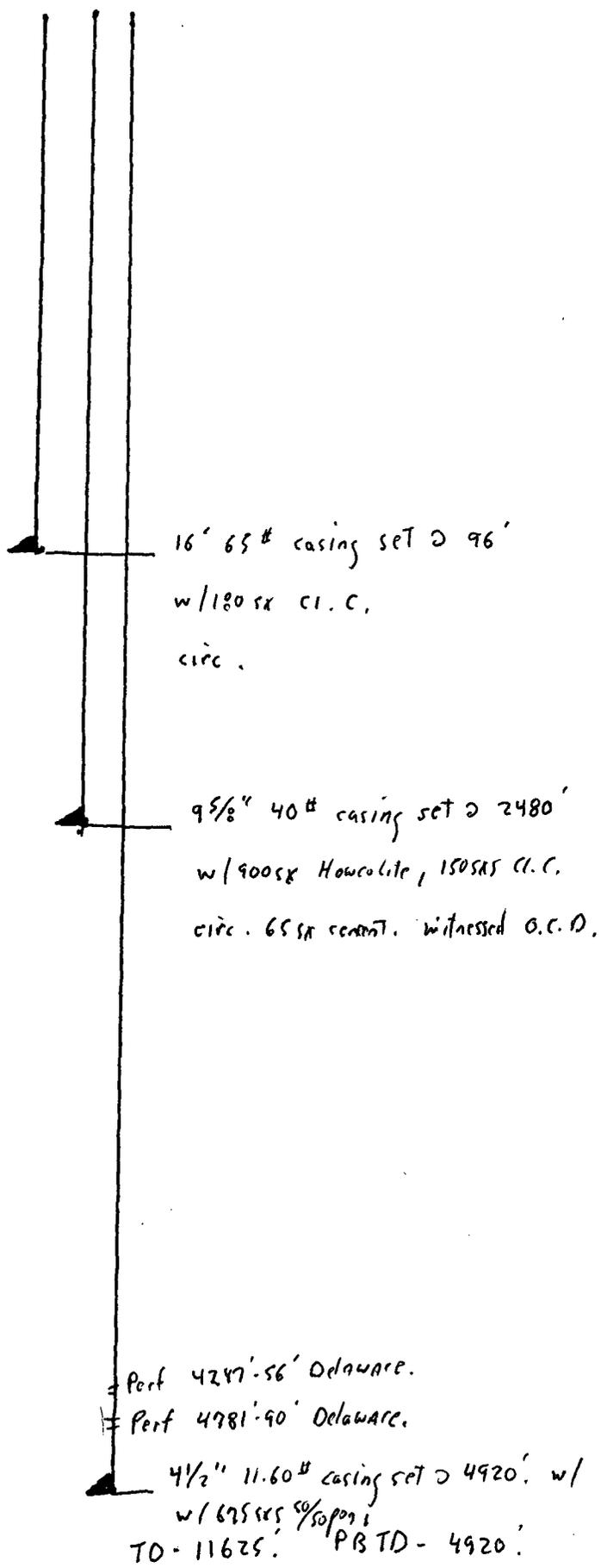
Checked for shut off @ (AM) (PM) Date

Method used Witnessed by

Remarks:

Operator Exxon Corp.  
Well Newman #1  
Unit 0 Section 7 Township 23-S Range 26-C  
API # 30-015--21477

Yates \_\_\_\_\_  
T. Salt \_\_\_\_\_  
B. Salt \_\_\_\_\_  
Glorieta \_\_\_\_\_  
Bone Sp. 4908'  
Abo \_\_\_\_\_  
Wolfcamp 8554'  
Morrow 11,053'  
Devonian \_\_\_\_\_  
Fusselman \_\_\_\_\_  
Other Delaware - 1320'  
\_\_\_\_\_  
\_\_\_\_\_



16" 65# casing set @ 96'  
w/180sx c.c.  
circ.

9 5/8" 40# casing set @ 2480'  
w/900sx Howcolite, 150585 c.c.  
circ. 65sx cement. witnessed O.C.D.

Perf 4247'-56' Delaware.  
Perf 4781'-90' Delaware.  
4 1/2" 11.60# casing set @ 4920'. w/  
w/675585 50/50px  
TO-11625. PBTD-4920'

History

Well was spudded + Drilled. 2/13/1925  
Clyde Tidwell Cable Tools.  
C.T. + Rotary Rigs used.  
Well is P&A.

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	<input checked="" type="checkbox"/>
FILE	<input checked="" type="checkbox"/>
U.S.G.S.	
LAND OFFICE	
OPERATOR	<input checked="" type="checkbox"/>

P. O. BOX 2088  
 SANTA FE, NEW MEXICO 87501  
 JUL 27 1984  
 O. C. D.  
 ARTESIA, NEW MEXICO

5a. Indicate Type of Lease  
 State  Fee   
 5. State Oil & Gas Lease No.  
 K 4761-3

SUNDRY NOTICES AND REPORTS ON WELLS  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
 USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL  GAS WELL  OTHER   
 2. Name of Operator  
 EXXON CORPORATION ✓  
 3. Address of Operator  
 BOX 1600, MIDLAND, TEXAS 79702  
 4. Location of Well  
 UNIT LETTER 0 2300 FEET FROM THE EAST LINE AND 660 FEET FROM  
 THE SOUTH LINE, SECTION 7 TOWNSHIP 23S RANGE 26E NMPM.  
 15. Elevation (Show whether DF, RT, GR, etc.)  
 3438 GR

7. Unit Agreement Name  
 8. Farm or Lease Name  
 NEWMAN STATE  
 9. Well No.  
 1  
 10. Field and Pool, or Whidcat  
 BRYNES TANK DELAWAR  
 12. County  
 EDDY

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1703. 95% D 2500'

- PULL RODS AND PUMP TEST BOP TO 2000 PSI. PULL TBG.
- SET CIRP AT 4200' - CAP w/100' CMT. PRESSURE TEST + CSG TO 1000 PSI.
- PERF CSG @ 2535' w/4SPF. RIH w/OPEN ENDED TBG TO PSTD (4100'). CIRC 4 1/2" CSG AND 4 1/2 x 9 5/8" ANNULUS w/9.5 PPG (MIN) BRINE WATER CONTAINING 25-100 LB SACK SALT GEL PER 100 bbl. (APPROX VOL IS 200 bbl.)
- PULL TBG TO 2535'. ESTABLISH CIRC THROUGH TBG ANNULUS @ CSG x CSG ANNULUS. SPOT A 30SX PLUG OF CMT (CLASS C, 3% CACL2) BY BALANCED PLUG METHOD. WOC. PRESSURE TEST PLUG TO 500 PSI.
- PERF CSG @ 1320' AND @ 50' w/4SPF. RIH w/OPENED TBG TO TAG TO C CMT FIRST PLUG (SHOULD BE 2435' MIN. OTHERWISE SPOT CMT TO MAKE UP THE DIFFERENCE) PULL TBG TO 1320' AND SPOT A 30SX PLUG OF CLASS C, 3% CACL2. BY BALANCED PLUG METHOD. KEEP BOTH ANNULI OPEN. PULL TBG TO 50' AND CIRC CMT TO SURFACE FOR FINAL PLUG.
- CUT WELLHEAD OFF AND INSTALL PERMANENT DRY HOLE MARKER. CLEAN AND LEVEL LOCATION.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED D. H. Jones TITLE SR ADMIN. DATE 7-26-84

APPROVED BY BY LARRY BROOKS TITLE JUL 31 1984 DATE JUL 31 1984  
 GEOLOGIST - NMCOO

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION  
FIELD TRIP REPORT

INSPECTION  
CLASSIFICATION  
FACILITY  
HOURS  
QUARTER  
HOURS

Name B. W. Weaver Date 2-25-85 Miles \_\_\_\_\_ District I  
Time of Departure \_\_\_\_\_ Time of Return \_\_\_\_\_ Car No. 65

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature \_\_\_\_\_

1 Well @-7-23-26 Exxon Corp Newman #1 (P+P) Set  
Cast Iron Bridge Plug @ 4200 Test Casing to 1000 PSI Would Not Hold  
Ran 2nd CIBP set at 4168 and Test to 1000 PSI Would Not Hold  
Put 10 SX Cement on Top of Bridge Plug Let Set  
2-26-85  
Test casing to 1000 PSI Would Not Test Ran Packer and Found  
Hole @ 3495 Squeezed with 50 SX Class C 2% CC  
2-27-85  
Pressured up and Squeeze Job Test to 1000 PSI O.K. Pulled Packer  
Perforated casing @ 2535 Tried to Circulate Could Not Set 20 SX  
Class C 2% CC Tagged @ 2304 Perforated @ 1320 Circulated  
With Mud to Surface with mud and spotted 30 SX Class C 3% CC, Perforated  
@ 50 Ft and Circ Cement to Surface

<u>Mileage</u>	<u>Per Diem</u>	<u>Hours</u>
UIC _____	UIC _____	UIC _____
RFA _____	RFA _____	RFA _____
Other _____	Other _____	Other _____

TYPE INSPECTION PERFORMED

- H - Housekeeping
- P - Plugging
- C - Plugging Cleanup
- T - Well Test
- R - Repair/Workover
- F - Waterflow
- M - Mishap or Spill
- W - Water Contamination
- O - Other

INSPECTION CLASSIFICATION

- U - Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)
- R - Inspections relating to Reclamation Fund Activity
- O - Other - Inspections not related to injection or The Reclamation Fund
- E - Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL OR FACILITY INSPECTED

- D - Drilling
- P - Production
- I - Injection
- C - Combined prod. inj. operations
- S - SWD
- U - Underground Storage
- G - General Operation
- F - Facility or location
- M - Meeting
- O - Other

15' K.B. TO 5L.

NEW MEXICO OIL CONSERVATION COMMISSION  
DRAWER DD  
ARTESIA, NEW MEXICO

FIELD REPORT FOR CEMENTING OF WELLS

Operator <i>Hanagan Petr. Corp.</i>		Lease <i>Newman Com.</i>		Well # <i>1</i>	
Location of Well	Unit <i>160's 2300c</i>	Section <i>7</i>	Township <i>23</i>	Range <i>26</i>	County <i>Eddy</i>
Drilling Contractor <i>Sidwell + Moreno</i>	Type of Equipment <i>CT + Rotary</i>				
* Witness APPROVED CASING PROGRAM <i>to start approx. 2-13-75</i>					
Size of Hole	Size of Casing	Weight Per Foot	New or Used	Depth	Sacks Cement
<i>20</i>	<i>16"</i>	<i>65"</i>		<i>100</i>	<i>225 lbs.</i>
<i>14 7/8" + 12 1/4"</i>	<i>9 7/8"</i>	<i>36 + 40</i>		<i>2500</i>	<i>800 lbs.</i>
<i>8 1/2" + 7 7/8"</i>	<i>5 1/2"</i>	<i>17 + 20</i>		<i>11700</i>	<i>500</i>
Casing Data: <i>15,000 FT K.B. TO 6L.</i>					
<i>INTER 8 -</i> Surface <i>2</i> joints of <i>9 7/8</i> inch <i>40</i> # Grade <i>K. 55 NEW BRT STEEL</i>					
<i>RANGE 3</i> (Approved) ( <del>Rejected</del> ) <i>LOTE STEEL</i>					
Inspected by <i>John R. Bergstrom</i> date <i>5-16-75</i>					
Cementing Program					
Size of hole <i>14 7/8" - 10 5/8"</i> Size of Casing <i>9 7/8"</i> Sacks cement required					
Type of Shoe used <i>GUIDE</i> Float collar used <i>INSERT</i> Btm 3 jts welded <i>YES</i>					
TD of hole <i>2480</i> KB Set <i>2480</i> Feet of <i>9 7/8</i> Inch <i>36 + 40</i> # Grade <i>K. 55 NEW BRT STEEL</i>					
New-used csg. @ <i>2480'</i> with <i>150</i> sacks neat cement around shoe <i>2% CAOL</i>					
+ <i>900</i> sax <i>HOWCO LITE</i> additives <i>4 1/2% CAOL + 2% CAOL</i>					
Plug down @ <i>4:15</i> (AM) (PM) Date <i>5-17-75</i>					
Cement circulated <i>YES</i> No. of Sacks <i>65</i> SX CIR TO PIT					
Cemented by <i>HALL BURTON</i> Witnessed by <i>John R. Bergstrom</i>					
Temp. Survey ran @ (AM) (PM) Date top cement @					
Casing test @ (AM) (PM) Date					
Method Used Witnessed by					
Checked for shut off @ (AM) (PM) Date					
Method used Witnessed by					
Remarks:					

NOTE: FULL RETURNS THROUGHOUT DRILLING & CEMENTING OPERATIONS. CMT FELL 2FT IN 10MIN AFTER PLUG DN ON INTERMEDIATE CSG. NO SIGNIFICANT "RATE OF PENETRATION" CHANGE FROM SURFACE TO 2480'

NO. OF COPIES RECEIVED	3	
DISTRIBUTION		
SANTA FE	1	
FILE	1	✓
U.S.G.S.		
LAND OFFICE		
OPERATOR	1	

**RECEIVED**  
NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103  
Supersedes Old  
C-102 and C-103  
Effective 1-1-65

MAY 20 1975

O. C. C.  
ARTESIA, OFFICE

5a. Indicate Type of Lease  
State  Fee

5. State Oil & Gas Lease No.  
K-4761-3

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR.  
USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER-	7. Unit Agreement Name -----
2. Name of Operator Hanagan Petroleum Corporation	8. Farm or Lease Name Newman-Com
3. Address of Operator P. O. Box 1737 Roswell, New Mexico 88201	9. Well No. 1
4. Location of Well UNIT LETTER 0 2300 FEET FROM THE East LINE AND 660 FEET FROM THE South LINE, SECTION 7 TOWNSHIP 23S RANGE 26E NMPM.	10. Field and Pool, or Wildcat Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 3438 GR	12. County Eddy

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

5/12/75: Started drilling operations w/Rotary Moranco Contractor, 5/12/75 T.D. Ream 6" hole to 20" hole to 96' ran 3 Jts. 16' 65# Casing, set @ 96' w/180 sx. Class "C" + 2% Ca CL. Plug down @ 3:10 PM 5/12/75 cement circ., w/80 sx. excess, 1.32 Slurry Vol. cu. ft./sx. 75° temp. when Slurry mixed, est. fm. temp. 65°, compressive strenght 565#, tested csg. w/500# 30", no press drop, drlg. Plug 3:00 AM 5/13/75 WOC 12 hrs.

5/17/75: T.D. 2480' sd. & lm. (14-3/4" & 12 1/4" hole), Ran 60 jts. 9-5/8" 40# ST&C & 36# LT&C csg. set @ 2480' & cmt. w/900 sx. Howco Light 1/4# flocel 2% Ca Cl + 150 sx. Class "C" w/2% Ca Cl, plug down 4:15 AM 5/17/75. Cement circ. w/65 sx. excess, 5/17/75 11:00 PM press up csg. 1800#/30", no press drop. Began making new hole @ 12:00 PM 5/17/75.

Witnessed by Leon Bergstrom  
Field Supervisor

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED M. L. Southerland TITLE Agent DATE 5/19/75

APPROVED BY Leon Bergstrom TITLE SUPERVISOR, DISTRICT II DATE MAY 20 1975

CONDITIONS OF APPROVAL, IF ANY:

Submit to Appropriate District Office  
State Lease - 6 copies  
Fee Lease - 5 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

CISF  
BWM  
BWM  
SFW  
Form 105  
Revised 1-1-89

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 Pacheco St.  
Santa Fe, NM 87505

WELL API NO. 30-015-31466

5. Indicate Type Of Lease  
STATE  FEE

6. State Oil & Gas Lease No. VB464

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL  GAS WELL  DRY  OTHER   
b. Type of Completion: NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF RESVR.

7. Lease Name or Unit Agreement Name  
OKY Honest John State

2. Name of Operator  
OKY USA WTP Limited Partnership

8. Well No. #1

3. Address of Operator  
P.O. Box 50250 Midland, TX 79710-0250

9. Pool name or Wildcat  
Carlsbad Morrow, S.

4. Well Location  
Unit Letter G : 1980 Feet From The north Line and 1700 Feet From The east Line  
Section 18 Township 23S Range 26E NMPM Eddy County

10. Date Spudded 3/14/01  
11. Date T.D. Reached 4/28/01  
12. Date Compl. (Ready to Prod.) 7/10/01  
13. Elevations (DF & RKB, RT, GR, etc.) 3484'  
14. Elev. Casinghead

15. Total Depth 11780'  
16. Plug Back T.D. 11726'  
17. If Multiple Compl. How Many Zones?  
18. Intervals Drilled By Rotary Tools R Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 11612-11618'  
20. Was Directional Survey Made No

21. Type Electric and Other Logs Run DLL/MLL/CZDL/CNL/GRL  
22. Was Well Cored No

23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48#	718'	17-1/2"	1016 <sub>EX</sub> -SURFACE	N/A
9-5/8"	36#	2807'	12-1/4"	980 <sub>EX</sub> - circulate	N/A
7"	26#	9470'	8-3/4"	725 <sub>EX</sub> -CBL-3260'	N/A

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4-1/2"	8933'	11780'	400 <sub>EX</sub>		2-3/8"	11260'	11260'

25. TUBING RECORD

26. Perforation record (interval, size, and number)	27. ACID, SHOT, FRACTURE, CEMENT, SOEZE, ETC.
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4SPF @ 11612-11618' Total 24 holes	11612-11618' 1500gal 7-1/2% NEEF HCl Acid
	11612-11618' 7350g 700 foam w/ 25040# sand

28. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping - Size and type pump)	Well Status (Prod. or Shut-in)					
7/22/01	Flwg	Prod					
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
8/22/01	24	21/64		0	1842	9	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)	
557			0	1842	9		

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
Sold  
Test Witnessed By G. Henrich

30. List Attachments  
C-103, C-104, Dev Svy. Logs (1set)

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature *David Stewart* Printed Name David Stewart Title Sr. Reg Analyst Date 9/5/01

Submit 3 Copies To Appropriate District Office  
 District I  
 1625 N. French Dr., Hobbs, NM 88240  
 District II  
 811 South First, Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised March 25, 1999

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

WELL API NO.  
 30-015-31466  
 5. Indicate Type of Lease  
 STATE  FEE   
 6. State Oil & Gas Lease No.  
 UB 464

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name:  
 OKY Honest John State

1. Type of Well:  
 Oil Well  Gas Well  Other

8. Well No.  
 1

2. Name of Operator  
 OXY USA WTP Limited Partnership 192463

3. Address of Operator  
 P.O. BOX 50250 MIDLAND, TX 79710-0250

9. Pool name or Wildcat  
 Under Carlsbad Morrow, South

4. Well Location  
 Unit Letter G 1980 feet from the NORTH line and 1700 feet from the EAST line  
 Section 18 Township Z35 Range Z6E NMPM County ELLY

10. Elevation (Show whether DR, RKB, RT, GR, etc.)  
 3434

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

<b>NOTICE OF INTENTION TO:</b> PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETION <input type="checkbox"/> OTHER: <input type="checkbox"/>		<b>SUBSEQUENT REPORT OF:</b> REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> COMMENCE DRILLING OPNS. <input checked="" type="checkbox"/> PLUG AND ABANDONMENT <input type="checkbox"/> CASING TEST AND CEMENT JOB <input checked="" type="checkbox"/> OTHER: <input type="checkbox"/>	
---	--	---	--

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

See other side



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David Stewart TITLE REGULATORY ANALYST DATE 3/23/01

Type or print name DAVID STEWART Telephone No. 915-685-5717

(This space for State use)  
 APPROVED BY Tim W. Gum ORIGINAL SIGNED BY TIM W. GUM DISTRICT II SUPERVISOR TITLE DATE MAR 27 2001

Conditions of approval, if any:

NOTIFIED NMOCD 3/13/01 OF SPUD. MIRU UTI 207, SPUD WELL @ 1400hrs MST  
3/14/01. DRILL 17-1/2" HOLE TO 156' & LOST RETURNS, DRY DRILL TO TD @ 719',  
3/15/01, PUMP SWEEP. RIH W/ 13-3/8" 48# H40 CSG, SET @ 718'. M&P 200sx CL H  
W/ 10% A10B + 10# LCM-1 + .25#/sx CELLOFLAKES + 1% CaCl<sub>2</sub> FOLLOWED BY 366sx  
65/35 C/POZ W/ 6% BENTONITE + 2% CaCl<sub>2</sub> + 5#/sx LCM-1 FOLLOWED BY 200sx CL C W/  
2% CaCl<sub>2</sub>, DISP W/ FW, PLUG DOWN 3/16/01, CEMENT DID NOT CIRC, WOC-5hrs, NMOCD  
NOTIFIED BUT DID NOT WITNESS. RIH W/ TEMP SVY, TOC @ 116'. RIH W/ 1" TO  
155', M&P 50sx CL C W/ 5% CaCl<sub>2</sub>, POOH, WOC-2hr. RIH & TAG @ 108', M&P 50sx CL  
C W/ 5% CaCl<sub>2</sub>, POOH, WOC-2hr. RIH & TAG @ 90', M&P 150sx CL C W/ 2% CaCl<sub>2</sub>,  
CIRC 20sx CMT TO PIT, NMOCD NOTIFIED BUT DID NOT WITNESS. CUT OFF CASING,  
WELD ON WELL HEAD, TEST TO 500#, OK. NU BOP & TEST BOP & CASING TO 500#, OK.  
TEST PIPE RAMS & HYDRIL TO 500#, OK. RIH & TAG, DRILL OUT & DRILL AHEAD  
3/17/01.

DRILL 12-1/4" HOLE TO TD @ 2807', 3/20/01, CHC. RIH W/ 9-5/8" 36# CSG & SET @  
2807'. M&P 780sx 35/65 POZ/C W/ 6% BENTONITE + 2% CaCl<sub>2</sub> + 5#/LCM-1 FOLLOWED  
BY 200sx CL C CMT W/ 2% CaCl<sub>2</sub>, DISP W/ FW, PLUG DOWN 3/20/01, CIRC 194sx TO  
PIT, WOC-6hrs. NMOCD NOTIFIED BUT DID NOT WITNESS. CUT OFF CSG & INSTALL B  
SEC, TEST TO 1500#, OK. NU BOP & CHOKE MANIFOLD, TEST BLIND RAMS, PIPE RAMS,  
CHOKE LINES, CHOKE MANIFOLD AND SAFETY VALVES TO 5000#, OK. TEST HYDRIL, MUD  
LINES AND CSG TO 2500#, OK. TOTAL WOC-18hrs. RIH, DO CMT & SHOE, DRILL NEW  
FORMATION, TEST CSG, OK. DRILL AHEAD 3/21/01.

Operator Exxon Corp.

Well New Mex. OS ST. #1

Unit P Section 13 Township 23S Range 28E

API # 30-015--24595

TOPS

Yates \_\_\_\_\_

T. Salt \_\_\_\_\_

B. Salt \_\_\_\_\_

Glorieta \_\_\_\_\_

Bone Sp. \_\_\_\_\_

Abo \_\_\_\_\_

Wolfcamp \_\_\_\_\_

Morrow \_\_\_\_\_

Devonian \_\_\_\_\_

Fusselman \_\_\_\_\_

Other \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Expired Drilling Intent.



**OIL CONSERVATION DIVISION**

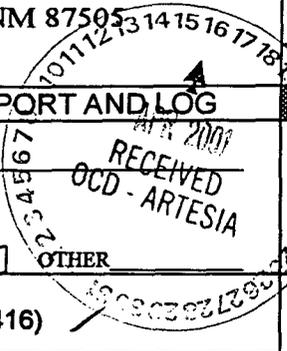
2040 South Pacheco  
Santa Fe, NM 87505

WELL API NO. 30-015-31471

5. Indicate Type of Lease  
STATE  FEE

State Oil & Gas Lease No.

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**



1a. Type of Well:  
OIL WELL  GAS WELL  DRY  OTHER

7. Lease Name or Unit Agreement Name

Neely Com.

b. Type of Completion:  
NEW WORK WELL  OVER  DEEPEN  PLUG BACK  DIFF. RESVR.  OTHER

8. Well No. 1

2. Name of Operator  
Fasken Oil and Ranch, Ltd. (151416)

3. Address of Operator  
303 W. Wall Ave., Suite 1800, Midland, TX 79701-5116

9. Pool name or Wildcat  
Cemetery (Morrow)

4. Well Location  
Unit Letter O : 660 Feet From The South Line and 1400 Feet From The East Line  
Section 29 Township 20 Range 25 NMPM County Eddy

10. Date Spudded 2-22-2001 11. Date T.D. Reached 3-28-2001 12. Date Compl. (Ready to Prod.) WOPL 13. Elevations (DF& RKB, RT, GR, etc.) 3569' GR 14. Elev. Casinghead 3569'

15. Total Depth 9835' 16. Plug Back T.D. 9793' 17. If Multiple Compl. How Many Zones? 18. Intervals Drilled By 0'-9700' Rotary Tools Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name WOPL 20. Was Directional Survey Made No

21. Type Electric and Other Logs Run CNL/Litho-Density/High Resolution Laterolog Array/Repeat Formation Tester 22. Was Well Cored No

**23. CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48	406'	17-1/2"	688 sx "C"	None
9-5/8"	36	3004'	12-1/4"	800 sx "C"	None
4-1/2"	11.6	9835'	8-3/4"	900 sx "C"	None

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET

26. Perforation record (interval, size, and number)		27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	

**28. PRODUCTION**

Date First Production		Production Method ( <i>Flowing, gas lift, pumping - Size and type pump</i> )			Well Status ( <i>Prod. or Shut-in</i> )		
		WOPL					
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*) WOPL Test Witnessed By

30. List Attachments  
C-102, Deviation Report, Logs: CNL/Litho-Density/High Resolution Laterolog Array/RFT/FMI, No DST's run

31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief

Signature Carl Brown Printed Name Carl Brown Title Petroleum Engineer Date 4-12-01

30-015-31471  
O-29-20s-25e FASKEN OIL AND RANCH, LTD.  
NEELY COM. #1

FED. 22,23-01

DRILLING WELL DRILLING TO SET 13.375" CSG AT 406'

L.C. AT 183'.

STRONG BLOW OF H<sub>2</sub>S GAS AT 183'.

H<sub>2</sub>S 2000 PPM IN CELLAR & 20-30 PPM ON RIG FLOOR.

RIG SHUTDOWN 7 HOURS ON BLOWDOWN AND WO SAFTY EQUIPEMENT .

PUMPED L.C. PLUG AND FRESH WATER STOPPED GAS BLOW.

DRILLED TO TD. RAN AND CEMENTED 13.375" CSG.

TOC AT 140' BY TEMP. SURVEY.

1" BACK TO SURFACE.

30-015-31471  
O-29-20s-25e FASKEN OIL AND RANCH, LTD.  
NEELY COM. #1

FED. 22,23-01

DRILLING WELL DRILLING TO SET 13.375" CSG AT 406'

L.C. AT 183'.

STRONG BLOW OF H<sub>2</sub>S GAS AT 183'.

H<sub>2</sub>S 2000 PPM IN CELLAR & 20-30 PPM ON RIG FLOOR.

RIG SHUTDOWN 7 HOURS ON BLOWDOWN AND WO SAFTY EQUIPEMENT .

PUMPED L.C. PLUG AND FRESH WATER STOPPED GAS BLOW.

DRILLED TO TD. RAN AND CEMENTED 13.375" CSG.

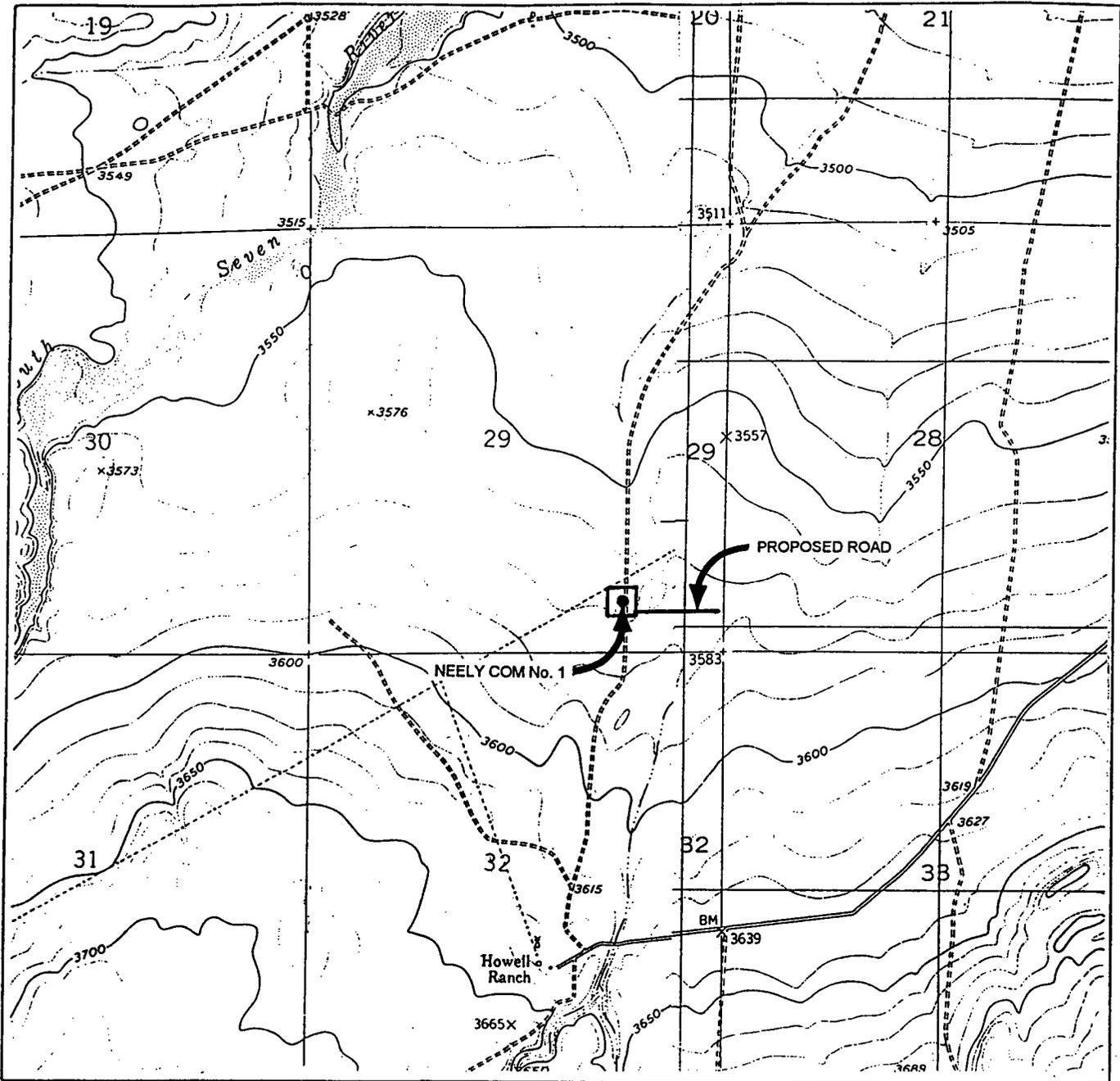
TOC AT 140' BY TEMP. SURVEY.

1" BACK TO SURFACE.

NOTE: LAND OWNER RICHARD HOWELL 505-457-2602

MR. HOWELL TOLD OPERATOR THERE WERE TWO ZONES OF WATER IN THE AREA.  
THE UPPER ZONE HAVING HIGH SULPHER AND THE LOWER ZONE HAVING GOOD WATER.

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'  
WTC 46033

SEC. 29 TWP. 20-S RGE. 25-E

SURVEY N.M.P.M

COUNTY EDDY STATE NM

DESCRIPTION 660' FSL & 1400' FEL

ELEVATION 3569'

OPERATOR FASKEN OIL & RANCH, LTD.

LEASE NEELY COM No. 1

USGS TOPO MAP FOSTER RANCH AND SEVEN RIVERS  
NEW MEXICO.

CONTOUR INTERVAL 10'

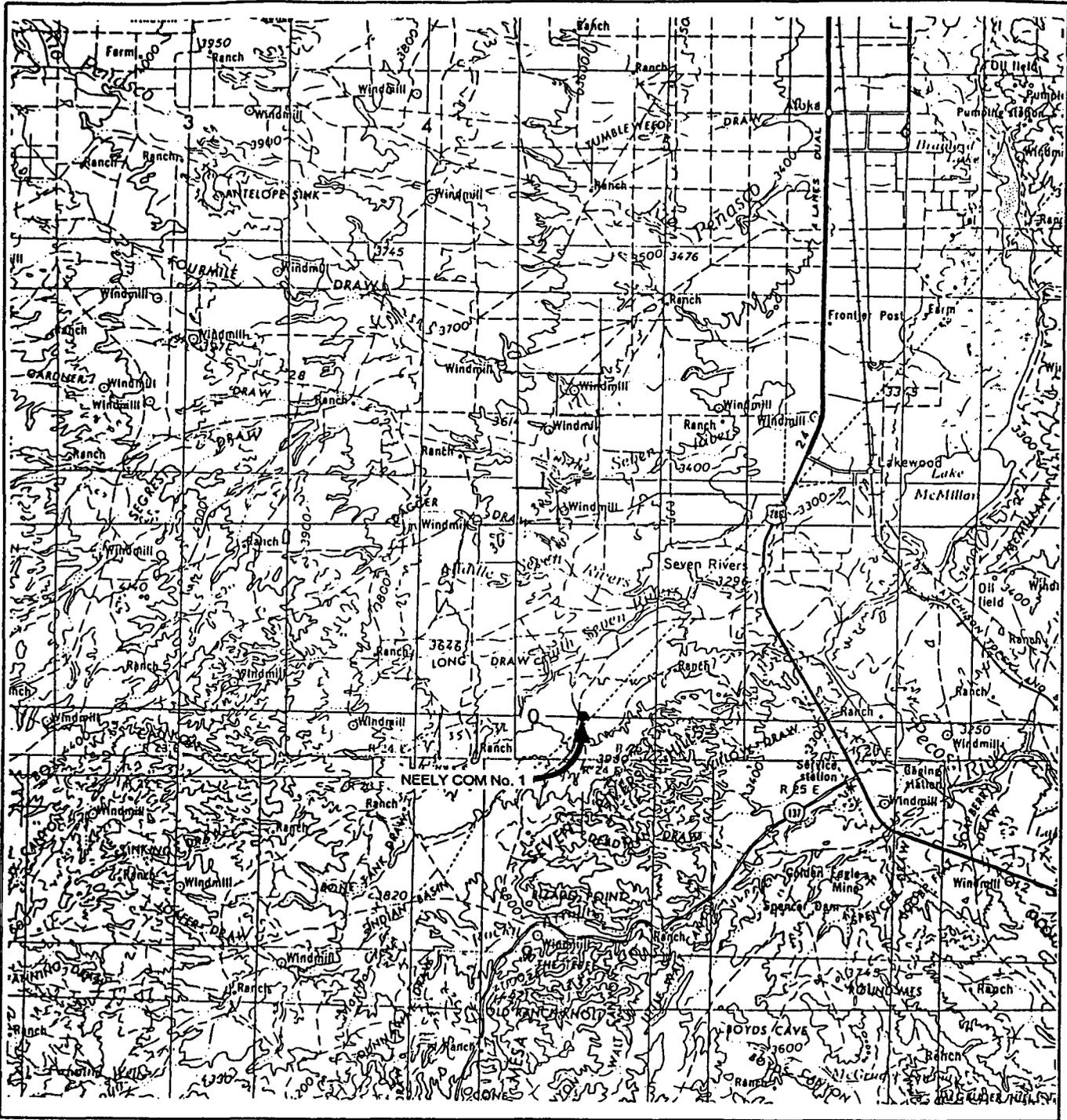
**WEST TEXAS CONSULTANTS, INC.**

**ENGINEERS-PLANNERS-SURVEYORS**

**MIDLAND, TEXAS**

**915-685-3800**

# VICINITY MAP



SCALE: 1" = 4 MILES

WTC 46033  
 SEC. 29 TWP. 20-S RGE. 25-E  
 SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM  
 DESCRIPTION 660' FSL & 1400' FEL  
 ELEVATION 3569'  
 OPERATOR FASKEN OIL & RANCH, LTD.  
 LEASE NEELY COM No. 1

**WEST TEXAS CONSULTANTS, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 MIDLAND, TEXAS  
 915-685-3800

Form 3160-5 Attachment  
Mayne & Mertz, Inc.  
Bluewater-Federal No. 1  
January 31, 1986

Plugged and abandoned as follows:

- 1.) Displaced hole w/ 10 ppg brine water.
- 2.) Set cmt plugs from 4785' to 4585' and 3662' to 3562'.
- 3.) Cut off 4-1/2" csg @ 2600' (w/ acid cutter) and pulled.
- 4.) Set cmt plug across csg-cut from 2650' to 2525', tagged cmt top @ 2525'.
- 5.) Set cmt plug across 8-5/8" csg shoe from 1650' to 1550', tagged cmt top @ 1550', pumped 15 sacks cmt on top of plug.
- 6.) Set 50' cmt plug at surface.
- 7.) Set 8-5/8" dry hole marker, cut anchors off below ground level, filled pits and cleaned location.

Date plugging operations began: 1/17/86  
 Date plugging operations completed: 1/22/86  
 Date plugging procedure approved: 12/11/85  
 Casing remaining in hole:  
 2456' of 4-1/2"  
 1596' of 8-5/8"  
 281' of 13-3/8"

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions reverse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

49

Drawer DD

Artesia, NM 88210

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

NM-19422

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Bluewater-Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat West Dark Canyon Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 18, T-23-S, R-26-E

12. COUNTY OR PARISH

Eddy

18. STATE  
New Mexico

1. OIL WELL  GAS WELL  OTHER Dry

2. NAME OF OPERATOR  
Mayne & Mertz, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 183, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface 1673' FWL & 660' FSL of Sec.

RECEIVED BY  
MAR 18 1986  
O. C. D.  
ARTESIA, OFFICE

14. PERMIT NO.  
Unknown

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KDB: 3424'

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)   
PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

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

17. 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 Attachment



18. I hereby certify that the foregoing is true and correct.  
SIGNED Raylon Mayne TITLE President DATE 2/3/86

(This space for Federal or State office use)  
APPROVED BY Sgt. Charles S. Danton TITLE \_\_\_\_\_ DATE 2-18-86  
CONDITIONS OF APPROVAL, IF ANY:

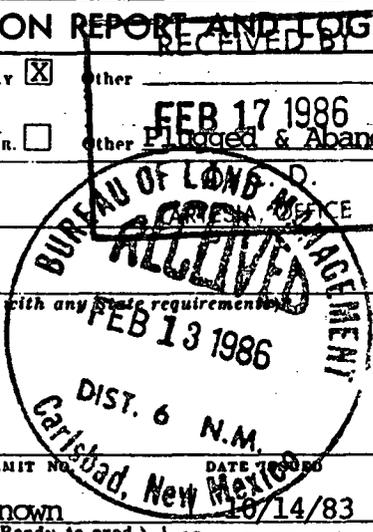
\*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NM OIL CONS. COMMISSION  
DRAWN DD SUBMIT IN DUPLICATE  
88210 (See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG



1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RENVR.  Other  Plugged & Abandoned

2. NAME OF OPERATOR  
Mayne & Mertz, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 183, Midland, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 1673' FWL & 660' FSL  
At top prod. interval reported below same  
At total depth same

14. PERMIT NO. Unknown DATE ISSUED 10/14/83

15. DATE STUDDED 10/26/83 16. DATE T.D. REACHED 11/8/83 17. DATE COMPL. (Ready to prod.) 12/30/83 18. ELEVATIONS (OF, RKB, RT, GR, ETC.) RKB 3425' (datum) 19. ELEV. CASINGHEAD 3411'

20. TOTAL DEPTH, MD & TVD 5057' 21. PLUG. BACK T.D., MD & TVD plugged 22. IF MULTIPLE COMPL., HOW MANY? 23. INTERVALS DRILLED BY ROTARY TOOLS 0 - TD CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* none - plugged & abandoned 25. WAS DIRECTIONAL SURVEY MADE Totco

26. TYPE ELECTRIC AND OTHER LOGS RUN CNL/GR/ DLL 27. WAS WELL CORED No

5. LEASE DESIGNATION AND SERIAL NO.  
NM-19422

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Bluewater-Federal

9. WELL NO.  
1

10. FIELD AND POOL OR WILDCAT  
West Dark Canyon-Delaware

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 18, T-23-S, R-26-E

12. COUNTY OR PARISH  
Eddy

13. STATE  
New Mexico

29. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5	281'	17-1/2"	500 sks	none
8-5/8"	28.0	1596'	12-1/4"	580 sks	none
4-1/2"	10.5	5056'	7-7/8"	850 sks	2600'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

4926' - 4944', 18 shots @ 1 spf  
4795' - 4851', 15 shots @ 1 spf  
4684' - 4756', 18 shots @ 1 spf

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4926' - 4944'	2000 gals 7-1/2% NEFE
4795' - 4851'	2000 gals 7-1/2% NEFE,
	40,000 gals & 44,000# sd
4684' - 4756'	3000 gals 7-1/2% NEFE,
	35,000 gals & 35,000# sd

33. PRODUCTION

DATE FIRST PRODUCTION never produced PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) plugged & abandoned WELL STATUS (Producing or shut-in)

DATE OF TEST \_\_\_\_\_ HOURS TESTED \_\_\_\_\_ CHOKER SIZE \_\_\_\_\_ PROD'N. FOR TEST PERIOD \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BBL. \_\_\_\_\_ GAS-OIL RATIO \_\_\_\_\_

FLOW. TUBING PRESS. \_\_\_\_\_ CASING PRESSURE \_\_\_\_\_ CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. \_\_\_\_\_ WATER—BBL. \_\_\_\_\_ OIL GRAVITY-API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) FEB 13 1986 TEST WITNESSED BY YAA

35. LIST OF ATTACHMENTS  
CARLSBAD, NEW MEXICO

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Jay L. Mayne TITLE President DATE 2/7/86

(See Instructions and Spaces for Additional Data on Reverse Side)

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.

9/5F

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY RECEIVED

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to develop or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Mayne & Mertz, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 183, Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1673' FWL & 660' FSL of Sec.  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>

(other) Casing & cementing Report

5. LEASE NM-19422

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Bluewater - Federal

9. WELL NO.  
1

10. FIELD OR WILDCAT NAME  
West Dark Canyon Delaware

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 18, T-23-S, R-26-E

12. COUNTY OR PARISH | 13. STATE  
Eddy | New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
KDB: 3424'

RECEIVED BY  
MAY 1 1984  
O. C. D.  
ARTESIA, OFFICE

17. 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.)\*

CASING: OK per A. Lopez  
281' of 13-3/8" / 54.5# / J-55 / STC  
Date set - 10/28/83

CEMENTING: Lead - 100 sks Halliburton Lite  
Tail - 400 sks Class "C" w/2% CaCl<sub>2</sub>  
Top of cement @ surface

PRESSURE TEST: 1000 psi held 30 mins with no pressure drop.

Subsurface Safety Valve: Manu. and Type Halliburton Insert Float Valve Set @ 240 Ft.

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

SIGNED [Signature] TITLE President DATE 11/12/84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_ ACCEPTED FOR RECORD

[Signature]  
MAY 10 1984

\*See Instructions on Reverse Side

487

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen a well back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Mayne & Mertz, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 183, Midland, TX 79702

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 1673' FWL & FSL of Sec.  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Casino &amp; cementing Report</u>	

88215ASE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Bluewater - Federal

9. WELL NO.  
1

10. FIELD OR WILDCAT NAME W/C  
~~West Dark Canyon Delaware~~

11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
Sec. 18, T-23-S, R-26-E

12. COUNTY OR PARISH | 13. STATE  
Eddy | New Mexico

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
KDB: 3424'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. 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.)\*

CASING: 1596' of 8-5/8" / 28# / J-55/ STC  
Date set - 11/2/83

CEMENTING: 580 sks class "C" w/ 2% CaCl<sub>2</sub>  
Top of cement @ surface

PRESSURE TEST: 1000 psi held 30 mins with no pressure drop

Subsurface Safety Valve: Manu. and Type Halliburton float collar Set @ 1555 Ft.

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

SIGNED [Signature] TITLE President DATE 1/12/84

ACCEPTED FOR RECORD (Space for Federal or State office use)

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

MAY 10 1984

Carlsbad

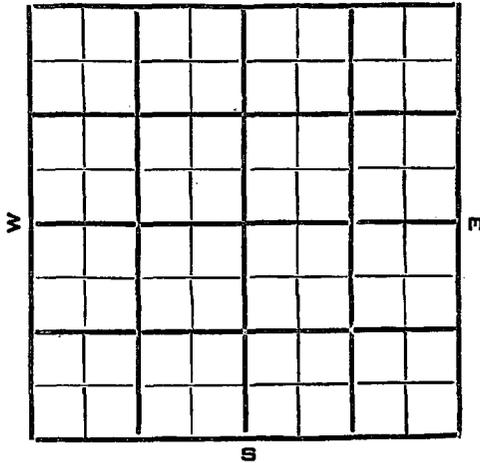
NEW MEXICO

\*See Instructions on Reverse Side

WILDCAT

# SCOUT REPORT NEW MEXICO OIL CONSERVATION COMMISSION

30-015-00375



Company ~~Everest and~~ Moran

Farm Name Ramuz

Well No. 1

Land Classification State

Sec. 18 Twp. 23 Range 26 County Eddy

Feet from Line: 660 N. S. E. 1980 W.

Elevation Method

Contractor Moran Drilling Company Scout

Spudded 1-18-40 Completed 8.17.40 Initial Production

Bond Status

**Amount**  
**Casing and Cementing Record**

Size	Feet	Inches	Sax Cement

### ACID RECORD

Gals.

Top Pay

TD

TA

TS

BS

TRS

TBL

TWD

**Tubing Record**


### SHOOTING RECORD

No. of Quarts Shot at Feet

No. of Quarts Shot at Feet

S/O 155' S/O 155' S/O

S/O S/O S/O

DATE	Spudded	DATE	
JAN 3 1940	✓	JUL 10	TD 1660 to prep on 7" casing
FEB 7 40	TD 345' S (30' hard)	JUL 17	TD 1660 to prep on 7" casing
FEB 14 40	✓	JUL 24	TD 1660 to prep on 7" casing
FEB 21 40	✓	JUL 31	S.O.O.
FEB 28 40	✓	AUG 7	
MAR 6 40	✓	AUG 14	
MAR 13 40	✓	AUG 21	TD. 1808 S
MAR 20 40	✓		PT A
MAR 27 40	✓		H X W 1780
APR 3 40	✓		
APR 10 40	✓		
APR 17 40	✓		
APR 24 40	✓		
MAY 1 40	✓		
MAY 8 40	✓		
MAY 15 40	✓		
MAY 22 40	✓		
MAY 29 40	✓		
JUN 5 40	✓		
JUN 12 40	✓		
JUN 19 40	✓		
JUN 26 40	✓		
JUL 3 40	TD 1660 S/O 1660		

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**RECEIVED**  
AUG 14 1940  
OIL CONSERVATION COMMISSION OFFICE

**MISCELLANEOUS NOTICES**

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	X
NOTICE OF INTENTION TO REPAIR WELL			
NOTICE OF INTENTION TO DEEPEN WELL		NOTICE OF INTENTION TO PLUG WELL	X

Gallup, New Mexico August 9 1940  
Place Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the \_\_\_\_\_

E Paul Moran #1 Ramuz Well No. 1 in NE 1/4 NW 1/4  
Company or Operator Lease  
of Sec. 18, T. 23 S, R. 26 E, N. M. P. M., Wildcat Field,  
Eddy County.

**FULL DETAILS OF PROPOSED PLAN OF WORK**

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Struck water (salt) at 1808' and came up approximately 1500' in the hole. We are cementing this water with 10 sacks of cement. Will leave in the hole between 200 and 250' of cemented pipe which we ran to shut off water encountered at 1563'. After balance of pipe is pulled will fill hole with mud up to 2500' from the surface and cement with 10 sacks of cement to protect whatever surface waters there may be above, then will mud hole up to near the surface and place a cement cap with regulation 4" pipe as marker for this well

**AUG 14 1940**

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

E. Paul Moran  
Company or Operator

By \_\_\_\_\_

Position \_\_\_\_\_  
Send communications regarding well to

OIL CONSERVATION COMMISSION,

By Roy Garbrough  
Title OIL & GAS INSPECTOR

Name \_\_\_\_\_  
Address \_\_\_\_\_

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**RECEIVED**  
MAY 31 1940

**NOTICE OF INTENTION TO DRILL**

Notice must be given to the Oil Conservation Commission or its proper agent and approved before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned to the sender. See additional instructions in Rules and Regulations of the Commission.

CARLSBAD, N. M. Jan. 10, 1940

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as \_\_\_\_\_

RAMUZ Well No. 1 in  
Company or Operator Lease  
of Sec. 18, T. 23 S, R. 26 E, N. M. P. M., Dark Canyon Field, Eddy County.

The well is 660 ft feet [N.] [S.] of the North line and 1980 ft feet  
[E.] [W.] of the West line of Sec 18 Twp. 23 S Rnge. 26 E.

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. \_\_\_\_\_ Assignment No. \_\_\_\_\_

If patented land the owner is Ramuz, Carlsbad, N. M.

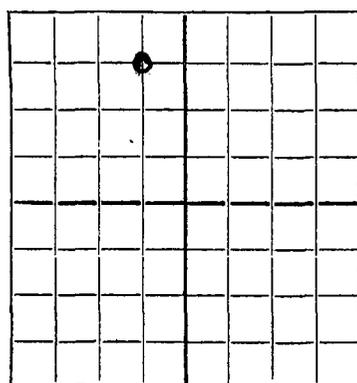
Address \_\_\_\_\_

If government land the permittee is \_\_\_\_\_

Address \_\_\_\_\_

The lessee is D. C. DeVito

Address Scharbauer Hotel, Midland, Texas



AREA 640 ACRES  
LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows: \_\_\_\_\_

Model Super D Forth Worth spudder

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Appld for American Emp. Ins. Co.

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
10 "	8 1/4 "	30#	S. H.	Approx 150'	Cmt. 25 Sx.	
8 "	7 "	20#	New	1350'	Cmt. 100 sx. if it is necessary to use this pipe.	

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 1500 feet.

Additional information:

Although the salt section should not be found on this location it will be protected according to the rules and regulations if it should be encountered.

MAY 31 1940

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

Sincerely yours,  
E. Paul Moran  
E. Paul Moran  
Company or Operator

By Self.

Position Owner

Send communication regarding well to

Name E. PAUL MORAN P.O.B. 409

Address Carlsbad, N. M.

OIL CONSERVATION COMMISSION,  
By Roy Garbrough  
Title OIL & GAS INSPECTOR

Form C-102  
**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**RECEIVED**  
JUL 12 1940  
**RECEIVED**  
CORRS OFFICE

**MISCELLANEOUS NOTICES**

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<input checked="" type="checkbox"/>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	<input type="checkbox"/>
NOTICE OF INTENTION TO REPAIR WELL	<input type="checkbox"/>	NOTICE OF INTENTION TO PLUG WELL	<input type="checkbox"/>
NOTICE OF INTENTION TO DEEPEN WELL	<input type="checkbox"/>		<input type="checkbox"/>

Carlsbad, New Mexico. July 7 1940

Place Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the \_\_\_\_\_  
E. Paul Moran, Ramuz Well No. 1 in NE1NW1  
Company or Operator Lease  
of Sec. 18, T. 23 south R. 26 east, N. M. P. M., Wildcat Field,  
Eddy County.

FULL DETAILS OF PROPOSED PLAN OF WORK  
FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION  
Running 7 inch O.D. to shut-off water. Halliburton doing the cementing job, on ~~Wed~~ Tuesday, July 9th. Will drill cement plug on Friday, July 12th., and test for shut-off.  
Estimated to use 14 sacks of cement.

JUL 12 1940

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

E. Paul Moran,  
Company or Operator

By E. Paul Moran

Position \_\_\_\_\_  
Send communications regarding well to

Name E. Paul Moran

Address Carlsbad, New Mexico.

OIL CONSERVATION COMMISSION,  
By Roy Jacobson  
Title OIL & GAS INSPECTOR

FORM 101  
**TRIPPLICATE**

**NEW MEXICO OIL CONSERVATION COMMISSION**  
 Santa Fe, New Mexico

**RECORDED**  
 AUG 8 - 1940  
**INDEXED**  
 HOBBS OFFICE

**MISCELLANEOUS REPORTS ON WELL**

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	<b>X</b>	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Carlsbad, New Mexico. August 1 1940  
 Place Date

OIL CONSERVATION COMMISSION  
 Santa Fe, New Mexico.  
 Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

E. Paul Moran Ramuz Well No. 1 in the  
 Company or Operator Lease  
NE 1/4 NW 1/4 of Sec. 18, T. 23 south, R. 26 east, N. M. P. M.,  
Wildcat Field, Eddy County

The dates of this work were as follows: July 23-25

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on July 7 1940 19  
 and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

**DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED**

After drilling plug, 2 bailers of water came in per hour, prepared well for Halliburton to test for shut off. Halliburton placed 600 lbs. pressure at the casing head and declared it to be a perfect shutoff. Water coming in is what water was absorbed by the open formation. Now bailing and water exhausting.

Witnessed by D. C. De Vito Independent  
 Name Company Title

Subscribed and sworn to before me this 1st  
 day of August, 1940

[Signature]  
 Notary Public

My Commission expires August 5, 1941

I hereby swear or affirm that the information given above is true and correct.

Name E. Paul Moran  
 Position Owner  
 Representing \_\_\_\_\_  
 Company or Operator  
 Address \_\_\_\_\_

Remarks:

Roy Yarbrough  
 Name  
 Oil & Gas Inspector

FORM C-102  
**TRIPPLICATE**

**NEW MEXICO OIL CONSERVATION COMMISSION**  
Santa Fe, New Mexico

RECEIVED  
NOV 18 1940  
NOTARY PUBLIC  
OFFICE

**MISCELLANEOUS REPORTS ON WELL**

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

Carlsbad, New Mexico Nov 7 1940  
Place Date

OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico.  
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the.....

E. Paul Moran Ramuz Well No. 1 in the  
Company or Operator Lease  
Center NE1/4NW1/4 of Sec. 18, T. 23 south, R. 26 east, N. M. P. M.,  
Wildcat Field, Eddy County

The dates of this work were as follows: August 10-15th., Nov. 5-6th., 1940

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on August 9 19 40  
and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

**DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED**

Cemented bottom water at 1808 feet with 10 sacks. Left 235 feet of 7 inch which was cemented to shut off water encountered at 1563-66" Filled hole with mud up to 225 feet from the surface and cemented with 10 sacks of cement in order to protect any surface waters. Left 100 feet of 8 1/2 inch surface pipe. Filled hole up with mud and placed a cement cap with regulation 4" pipe as marker.

Witnessed by D.C. De Vito and George Roundey, Independent Operators.  
Name Company Title

Subscribed and sworn to before me this 12<sup>th</sup>  
day of November, 19 40

[Signature]  
Notary Public

My Commission expires August 5, 1941

I hereby swear or affirm that the information given above is true and correct.  
Name E. Paul Moran  
Position Owner  
Representing \_\_\_\_\_  
Company or Operator  
Address Carlsbad, New Mexico.

Remarks:

R. D. Yerbrangh  
Name  
OIL & GAS INSPECTOR  
Title



TRIPPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

NOTICE OF INTENTION TO DRILL

RECEIVED MAY 31 1940

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

CARLSBAD, N. M. Jan. 10, 1940

Place

Date

OIL CONSERVATION COMMISSION, Santa Fe, New Mexico

Gentlemen:

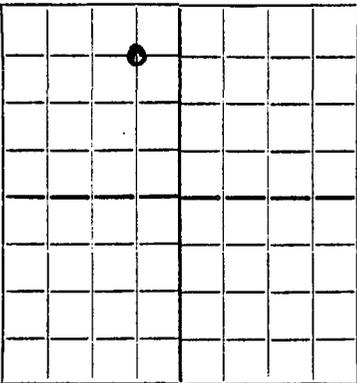
You are hereby notified that it is our intention to commence the drilling of a well to be known as

RAMUZ

Well No. 1 in

of Sec. 18, T. 23 S, R. 26 E, N. M. P. M., Dark Canyon Field, Eddy County.

The well is 650 ft feet [N.] [S.] of the North line and 1980 ft feet [E.] [W.] of the West line of Sec 18 Twp. 23 S Rnge. 26 E.



(Give location from section or other legal subdivision lines. Crossout wrong directions.)

If state land the oil and gas lease is No. Assignment No.

If patented land the owner is Ramuz, Carlsbad, N. M.

Address

If government land the permittee is

Address

The lessee is D. C. DeVito

Address Scharbauer Hotel, Midland, Texas

AREA 640 ACRES LOCATE WELL CORRECTLY

We propose to drill well with drilling equipment as follows:

Model Super D Forth North spudder

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Appld for American Emp. Ins. Co.

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
10 "	8 1/4 "	30#	S. H.	Approx 150'	Cmt. 25 Sx.	
8 "	7 "	20#	New	1350'	Cmt. 100 sx. if it is necessary to use this pipe	

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 1500 feet.

Additional information:

Although the salt section should not be found on this location it will be protected according to the rules and regulations if it should be encountered.

MAY 31 1940

Approved \_\_\_\_\_, 19\_\_\_\_  
cept as follows:

Sincerely yours,  
E. Paul Moran  
E. Paul Moran  
Company or Operator

By Self.

Position Owner

Send communication regarding well to

Name E. Paul Moran D.O.B. 409

Address Carlsbad, N. M.

OIL CONSERVATION COMMISSION,  
By Roy Yarbroough  
Title OIL & GAS INSPECTOR

**DUPLICATE**

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

**RECEIVED**  
JUL 12 1940  
**NEGATIVE**

**MISCELLANEOUS NOTICES**

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	<b>X</b>	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Carlsbad, New Mexico. July 7 1940

Place

Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the \_\_\_\_\_

E. Paul Moran,

Ramuz

Well No. 1

in NE 1/4 NW 1/4

Company or Operator

Lease

of Sec. 18, T. 23 south R. 26 east, N. M. P. M., Wildcat Field,

Eddy

County.

**FULL DETAILS OF PROPOSED PLAN OF WORK**

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Running 7 inch O.D. to shut-off water. Halliburton doing the cementing job, on ~~xxx~~ Tuesday, July 9th. Will drill cement plug on Friday, July 12th., and test for shut-off.

Estimated to use 14 sacks of cement.

**JUL 12 1940**

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

E. Paul Moran,

Company or Operator

By E. Paul Moran

Position \_\_\_\_\_

Send communications regarding well to

Name E. Paul Moran

Address Carlsbad, New Mexico.

OIL CONSERVATION COMMISSION,

By Roy Yarbrough

Title \_\_\_\_\_

OIL & GAS INSPECTOR

TRIPPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED  
AUG 8 - 1940  
HOBBS OFFICE

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

Carlsbad, New Mexico. August 1 1940  
Place Date

OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico.

Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the

E. Paul Moran Ramuz Well No. 1 in the  
Company or Operator Lease  
NE 1/4 NW 1/4 of Sec. 18, T. 23 south, R. 26 east, N. M. P. M.,  
Wildcat Field, Eddy County

The dates of this work were as follows: July 23-25

Notice of intention to do the work was ~~(crossed)~~ submitted on Form C-102 on July 7 1940 19  
and approval of the proposed plan was ~~(crossed)~~ obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

After drilling plug, 2 bailers of water came in per hour, prepared well for Halliburton to test for shut off. Halliburton placed 600 lbs. pressure at the casing head and declared it to be a perfect shutoff. Water coming in is what water was absorbed by the open formation. Now bailing and water exhausting.

Witnessed by D. C. De Vito Independent  
Name Company Title

Subscribed and sworn to before me this 1st  
day of August, 1940  
[Signature]  
Notary Public  
My Commission expires August 5, 1941

I hereby swear or affirm that the information given above is true and correct.  
Name E. Paul Moran  
Position Owner  
Representing \_\_\_\_\_  
Company or Operator  
Address \_\_\_\_\_

Remarks:

Roy Underwood  
Name  
REGISTRAR

**DUPLICATE**

**NEW MEXICO OIL CONSERVATION COMMISSION**

Santa Fe, New Mexico

**MISCELLANEOUS NOTICES**

**RECEIVED**  
AUG 14 1940  
OIL CONSERVATION COMMISSION  
SANTA FE OFFICE

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF		NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	X
NOTICE OF INTENTION TO REPAIR WELL			
NOTICE OF INTENTION TO DEEPEN WELL		NOTICE OF INTENTION TO PLUG WELL	X

Calshad, New Mexico August 9 1940  
Place Date

OIL CONSERVATION COMMISSION,  
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the  
E Paul Moran #1 Ramuz Well No. 1 in NE 1/4 NW 1/4  
Company or Operator Lease  
of Sec. 18, T. 23 S, R. 26 E, N. M. P. M., Wildcat Field,  
Eddy County.

**FULL DETAILS OF PROPOSED PLAN OF WORK**

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

Struck water (salt) at 1808' and came up approximately 1500' in the hole. We are cementing this water with 10 sacks of cement. Will leave in the hole between 200 and 250' of cemented pipe which we ran to shut off water encountered at 1563'. After balance of pipe is pulled will fill hole with mud up to 250' from the surface and cement with 10 sacks of cement to protect whatever surface waters there may be above, then will mud hole up to near the surface and place a cement cap with regulation 4" pipe as marker for this well

AUG 14 1940

Approved \_\_\_\_\_, 19\_\_\_\_  
except as follows:

*E Paul Moran*  
Company or Operator

By \_\_\_\_\_

Position \_\_\_\_\_  
Send communications regarding well to

OIL CONSERVATION COMMISSION,  
By *Roy Garbrough* Name \_\_\_\_\_  
Address \_\_\_\_\_  
Title *OIL & GAS INSPECTOR*

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

RECEIVED  
NOV 18 1940  
BOBBS OFFICE

MISCELLANEOUS REPORTS ON WELL

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-offs, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below:

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X		

Carlsbad, New Mexico Nov 7 1940  
Place Date

OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico.  
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the.....

E. Paul Moran Ramuz Well No. 1 in the  
Company or Operator Lease  
Center NE 1/4 NW 1/4 of Sec. 18 T. 23 south, R. 26 east, N. M. P. M.,  
Wildcat Field, Eddy County

The dates of this work were as follows: August 10-15th., Nov. 5-6th., 1940

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on August 9 1940  
and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Cemented bottom water at 1808 feet with 10 sacks. Left 235 feet of 7 inch which was cemented to shut off water encountered at 1563-66' Filled hole with mud up to 225 feet from the surface and cemented with 10 sacks of cement in order to protect any surface waters. Left 100 feet of 8 1/4 inch surface pipe. Filled hole up with mud and placed a cement cap with regulation 4" pipe as marker.

Witnessed by D.C. De Vito and George Roundey, Independent Operators.  
Name Company Title

Subscribed and sworn to before me this 12<sup>th</sup>  
day of November, 1940

[Signature]  
Notary Public

My Commission expires August 5, 1941

I hereby swear or affirm that the information given above is true and correct.

Name E. Paul Moran

Position Owner

Representing \_\_\_\_\_  
Company or Operator

Address Carlsbad, New Mexico.

Remarks:

R. O. Yarbrough  
Name

OIL & GAS INSPECTOR

Title

Bryan Arrant - 505 - 148 - 7144

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/15/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: DRILL AND EQUIP  
 Days Since Spud: Days on Location: 1  
 Total Depth (Md): 395 Total Depth (Tvd):  
 Amt Drilled (Md): 370 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: SURFACE ROCK  
 Pros Oprs: DRILLING  
 Daily Cost: \$87151 CUM Cost: \$90651 AFE Cost: \$0  
 CMIC: BDKKER

Mud Data

Mud Wt: 8.4 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 Daily Mud Cost: \$1398 CUM Mud Cost: \$1398

Pump Data

Pump Press: 650 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM: 60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:

Casing String Data

Last Casing Sz: 20 Depth: 40 Liner Size: Top@: Btm@:  
 Shoe Test: MACP: String Wt: 45000 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Wps: 11.25 Wt BLW Jars: BHA LG: 354.77  
 Drill Collar #: 7 4 P.U. Wt: 45000 SO Wt: 45000  
 Drill Collar OD: 8 6.25 Tool Joints: 6 5/8REG 4 1/2XO  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 1 Size: 17.5 Type: M553 Make: SEC Serial #: D09872 IADC:  
 Surf HHP: HHP: In/Out: 40 HP/T2: HHP:  
 Amt Drld: 355 Rot Hr: 11.25 WOB Hi/Lo: 45/20 RPM Hi/Lo: 110/80 ROP: 31.56  
 Jets #1: 12 #2: 13 #3: 13 #4: Bit Torque:  
 Jets #1: 12 #2: 13 #3: 13 #4: Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 200 0.75

Mud Log Data

ROP Ft/Hr Avg: 30 Max: 60 BGG Avg: Max: CG:

Rig Time Data

Inspect DP: Wash Ream: Swabbing: Abandon: C & CM: 1  
 Rig Service: Rig Repair: Observe: Rig Down: Rig Up: 6  
 Stimulating: Surveying: 0.25 Drilling: 11.25 Logging: Fishing:  
 Trip Tubing: Trip Rods: Tripping: 0.5 WOC: WOW:  
 Drlg Cement: Other: 5

Misc Data

Personnel Contract: 13 OXY: 1 Service: 12 Other:  
 Rig Fuel: 10136 Used: Recv'd: 10136 Bar on Loc:

Detail Remarks:

WELL WAS TEMP. DROPPED FROM REPORT 2-24-01 W/O ROTARY RIG. LOCATION STAKED BY BASIN SURVEYORS 1980' FNL, 1700' FEL, SECTION 18, T23S, R26E, EDDY COUNTY, NEW MEXICO. BUILT LOCATION AND ROAD. DUG AND LINED RESERVE PIT. SET 20" CONDUCTOR PIPE AT 40' AND CEMENTED WITH READY-MIX. MIRR UTI DRILLING RIG 207. SPUDED 17 1/2" HOLE AT 1400 HOURS MST 3-14-01. DRILLED TO 156' AND LOST RETURNS. MIXED LCM WITH NO SUCCESS. DRY DRILLING AT REPORT TIME WITH NO PROBLEMS.

Willie - This is a 'recently' drilled well that is @ 1/2 mile from the monitor well in the Sheep Draw well field

Bryan

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/16/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag:  
 Days Since Spud: 1 Days on Location: 2  
 Total Depth (Md): 719 Total Depth (Tvd):  
 Amt Drilled (Md): 324 Amt Drilled (Tvd): 0  
 P.B.T.D. (Md): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: SURFACE ROCK  
 Pres Oprs: WOC  
 Daily Cost: \$28651 CUM Cost: \$119302 AFE Cost: \$0  
 CMIC: BOWKBR

Mud Data

Mud Wt: 8.3 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 Daily Mud Cost: \$1365 CUM Mud Cost: \$2763

Pump Data

Pump Press: 750 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM: 60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:

Casing String Data

Last Casing Sz: 13.375 Depth: 718 Liner Size: Top@: Btm@:  
 BHA Wt in Mud: Rot Hrs: 27.25 Wt B/W Jars: BHA LG:  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 1 Size: 17.5 Type: M553 Make: SEC Serial #: D09872 TADC:  
 Surf HHP: HHP: In/Out: 40/719 HP/I2: \$HP:  
 Amt Drld: 679 Rot Hr: 27.25 WOB Hi/Lo: 45/20 RPM Hi/Lo: 110/80 ROP: 24.92  
 Jets #1: 12 #2: 13 #3: 13 #4: Bit Torque:  
 TPA: API Grading T: 2 B: 2 G: I Remarks:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 387 0.75  
 719 0.5

Mud Log Data

ROP Ft/Hr Avg: 20 Max: 30 BGG Avg: Max: CG:

Rig Time Data

Inspect DP: Wash Ream: 1.5 Swabbing: Abandon: C & CM: 0.75  
 Circ Sample: Completng: Cementing: 1 Coring: Cut DL:  
 Set Packers: Run Tubing: Run Casing: 2.5 Set Plugs: Drv Pipe:  
 Stimulating: Surveying: 0.5 Drilling: 16 Logging: Fishing:  
 Trip Tubing: Trip Rods: Tripping: 1.25 WOC: 0.5 WOW:

Misc Data

Personnel Contract: 13 OXY: 1 Service: 12 Other:  
 Rig Fuel: 7298 Used: 1183 Recv'd: 0 Bar on Loc:

Detail Remarks:

DRILLED TO CASING POINT OF 719'. PUMPED SWEEP AND RAN WLS. POOH WITH BIT AND BHA. RU CASING CREW. RAN 16 JOINTS 13 3/8" CASING. WASHED 20' TO BOTTOM AND SET AT 718'. CLEARED CASING WITH RIG PUMP. RU B.J. MIXED 4 SX GW-27 IN 10 BBLs F.W. AHEAD. MIXED AND PUMPED 200 SX CLASS H CONTAINING 1% CaCL2, 1/4# CELLOFLAKES, 10# GILSONITE, AND 10# A-10B, FOLLOWED BY 366 SX 35:65:6 CONTAINING 2% CaCL2, 5# GILSONITE, AND 1/4# CELLOFLAKES. TAILED IN WITH 200 SX CLASS C CONTAINING 2% CaCL2. DISPLACED CEMENT TO FLOAT WITH F.W. F.D. AT 0540 HOURS MST 3-16-01 WITH 500#. LEFT WELL S.I. WOC. HAD NO CIRCULATION DURING JOB. MIKE STUBBLEFIELD WITH NMOCD NOTIFIED OF CEMENT JOB BUT DID NOT WITNESS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/17/2001

Job: DRILL AND EQUIP

Rig#: 207  
 Contractor: UTI  
 Flag:  
 Days Since Spud: 2 Days on Location: 3  
 Total Depth (Md): 719 Total Depth (Tvd):  
 Amt Drilled (Md): 0 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: SURFACE ROCK  
 Pres Oprs: TIH WITH BIT

Daily Cost: \$33346 CUM Cost: \$152648 AFE Cost: \$0  
 CMIC: BOWKER

Mud Data

Mud Wt: 8.3	Mud MB:	Mud MP:	Funnel Visc: 28	Solids %:
PH Factor: 7	Mud PM:	Mud PP:	Mud PV:	Sand %:
Calcium: 480	LCM:	Ex Lime:	Elec Stbl:	Oil %:
Chlorides: 1100	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$341 CUM Mud Cost: \$3104

Casing String Data

Last Casing Sz: 13.375	Depth: 718	Liner Size:	Top@:	Btm@:
BHA Wt in Mud:	Rot Hrs: 27.25	Wt BLW Jars:	BHA LG:	
Drill Collar #: 7		P.V. Wt:	SO Wt:	
Drill Collar OD: 8	6.25	Tool Joints: 6 5/8REG	4 1/2XO	
Drill Pipe O.D.: 4.5		Tool Joints: XO		

Bit Data

Bit: 2	Size: 12.25	Type: HR30C	Make: HTC	Serial #: G81JB	IADC: 547
Surf HHP:	HHP:	In/Out: 719	HF/I2:	%HP:	
Jets #1:12	#2:12	#3:12	#4:	Bit Torque:	
Jets #1:12	#2:12	#3:12	#4:	Bit Torque:	

Rig Time Data

Nu-Nd BOP: 4.5	Pu-Ld BHA: 0.5	Pu-Ld DP:	Jack Down:	Jack Up:
Trip Tubing:	Trip Rods:	Tripping:	WOC: 15.5	WOW:

Misc Data

Personnel	Contract: 13	OXY: 1	Service: 7	Other:
-----------	--------------	--------	------------	--------

Detail Remarks:

WOC FOR 5 HOURS. RAN TEMPERATURE SURVEY AND SHOWED TOC AT 116'. RIH WITH 1" TBG AND TAGGED CEMENT AT 155'. SPOTTED 50 SX CLASS C CONTAINING 5% CACL2. POOH WITH 1". WOC 2 HOURS. REIH WITH 1" AND TAGGED CEMENT AT 108'. ATTEMPT TO BREAK CIRCULATION W/O SUCCESS. SPOTTED 50 SX CLASS C WITH 5% CACL2. POOH WITH 1". WOC 2 HOURS. RIH WITH 1" AND TAGGED UP AT 90'. BROKE CIRCULATION WITH F.W. MIXED AND PUMPED 150 SX CLASS C WITH 2% CACL2. CIRCULATED 20 SX TO PIT. R.D. B.J. WOC 3 HOURS. CUT OFF CASING AND CONDUCTOR PIPE. WELDED ON 13 5/8" 1-M STARTING HEAD. TESTED HEAD TO 500#. O.K. NU 13 5/8" HYDRIL. TIH WITH BIT AND BHA AT REPORT TIME. MIKE STUBBLEFIELD WITH NMOCB NOTIFIED OF CEMENT JOB BUT DID NOT WITNESS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/18/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag:  
 Days Since Spud: 3                      Days on Location: 4  
 Total Depth (Md): 1488                  Total Depth (Tvd):  
 Amt Drilled (Md): 769                    Amt Drilled (Tvd): 0  
 P.B.T.D. (Md):                            P.B.T.D. (Tvd):  
 Perforations:  
 Formations:                      ANHYDRITE  
 Pres Oprs:                        DRILLING  
 Daily Cost: \$18360                      CUM Cost: \$171008                      AFB Cost: \$0  
 CMIC: BOWKER

Mud Data

Mud Wt: 8.4      Mud MB:              Mud MP:              Funnel Visc: 28              Solids %:  
 PH Factor: 10      Mud FM:              Mud FP:              Mud FV:                      Sand %:  
 Chlorides: 1300      HTP 500:                      HTP 100:                      Oil/Wtz:  
 Daily Mud Cost: \$0                      CUM Mud Cost: \$3104

Pump Data

Pump Press: 1100      SPR Depth:              Mud Wt:              AV DP:                      AV DC:  
 #1 Line Sz: 5.5      Stroke Len: 16              Max SPM: 60              Vol: 320  
 #2 Line Sz: 5.5      Stroke Len: 16              Max SPM:                      Vol:  
 Kill Spd #1: 510038

Casing String Data

Last Casing Sz: 13.375      Depth: 718              Liner Size:              Top@:                      Btm@:  
 Shoe Test:                      MACP:                      String Wt: 110000              Torque:                      Mud Wt:  
 BHA Wt in Mud:                      Rot Hrs: 47.75              Wt BLW Jars:              BHA LG: 956.32  
 Drill Collar #: 7                      24                      P.U. Wt: 110000              SO Wt: 110000  
 Drill Collar OD: 8                      6.25                      Tool Joints: 6 5/8REG              4 1/2XO  
 Drill Pipe O.D.: 4.5                      Tool Joints: XO

Bit Data

Bit: 2      Size: 12.25      Type: HR30C              Make: HTC                      Serial #: G81JE                      IADC: 547  
 Surf HHP:                      HHP:                      In/Out: 719                      HP/I2:                      %HP:  
 Amt Drld: 769                      Rot Hr: 20.5                      WOB Hi/Low: 65/45              RPM Hi/Low: 60/75                      ROP: 17.51  
 Jets #1: 12                      #2: 12                      #3: 12                      #4:                      Bit Torque:  
 Jets #1: 12                      #2: 12                      #3: 12                      #4:                      Bit Torque:

Survey Data

--Coordinates--      Vertical      Dog                      Bit  
 MD      TVD      Angle      Direction N or S      E or W      Section      Leg      WOB                      RPM  
 988                      1

Mud Log Data

ROP Ft/Hr Avg: 38                      Max: 50                      BGG Avg:                      Max:                      CG:

Rig Time Data

Stimulating:                      Surveying: 0.25                      Drilling: 20.5                      Logging:                      Fishing:  
 Trip Tubing:                      Trip Rods:                      Tripping: 1.75                      WOC:                      WOW:  
 Drlg Cement: 1.25                      Other: 0.25

Misc Data

Personnel      Contract: 13                      OXY: 1                      Service: 2                      Other:  
 Rig Fuel: 6397      Used: 661                      Recv'd:                      Bar on Loc:  
 Last BOP Test      Date: 03/17/01                      Press: 500#                      Remarks:

Detail Remarks:  
 FINISHED NU BOP. TIH WITH BIT AND BHA. TESTED CASING AND HYDRIL TO 500#.  
 O.K. DRILLED CEMENT AND SHOE. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OKY HONEST JOHN STATE NO. 1  
 API#: 30-D15-31466-00  
 03/19/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag:  
 Days Since Spud: 4                      Days on Location: 5  
 Total Depth (Md): 2143                  Total Depth (Tvd):  
 Amt Drilled (Md): 655                    Amt Drilled (Tvd): 0  
 P.B.T.D. (Md):                            P.B.T.D. (Tvd):  
 Perforations:  
 Formations:                      ANHYDRITE  
 Pres Oprs:                        DRILLING  
 Daily Cost: \$10051                      CUM Cost: \$181059                      AFE Cost: \$0  
 CMIC: BOWKER

Mud Data

Mud Wt: 9.4      Mud MB:      Mud MP:      Funnel Visc: 28      Solids %:  
 PH Factor: 10      Mud PM:      Mud PF:      Mud FV:      Sand %:  
 Calcium: 720      LCM:      Ex Lime:      Elec Stbl:      Oil %:  
 Chlorides: 1150      HTP 500:      HTP 100:      Oil/Wtr:  
 Daily Mud Cost: \$246                      CUM Mud Cost: \$3350

Pump Data

Pump Press: 1100      SPR Depth:      Mud Wt:      Av DP:      Av DC:  
 #1 Line Sz: 5.5      Stroke Len: 16      Max SPM:60      Vol: 320  
 #2 Line Sz: 5.5      Stroke Len: 16      Max SPM:      Vol:  
 Kill Spd #1:510@38

Bit Data

Bit:2      Size: 12.25      Type: HR30C      Make: HTC      Serial #: G81JE      IADC: 547  
 Surf HHP:      RHP:      In/Out:719      HP/I2:      tMP:  
 Amt Drld:1424      Rot Hr:43.25      WOB Hi/Lo:65/45      RPM Hi/Lo: 80/75      ROP: 32.92  
 Jets #1:12      #2:12      #3:12      #4:      Bit Torque:  
 Jets #1:12      #2:12      #3:12      #4:      Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD      TVD      Angle Direction N or S      E or W Section Leg      WOB      RPM  
 1460      1.75  
 1621      1.25  
 1814      1.75  
 1971      1.75

Mud Log Data

ROP Ft/Hr Avg:30      Max: 50      BGG Avg:      Max:      CG:

Rig Time Data

Stimulating:      Surveying: 1.25      Drilling: 22.75      Logging:      Fishing:

Misc Data

Personnel      Contract: 13      OXY: 1      Service: 2      Other:  
 Rig Fuel: 5761 Used: 636      Recv'd: 0      Bar on Loc:

Detail Remarks:  
 DRILLING AHEAD WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/20/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag:  
 Days Since Spud: 5                      Days on Location: 6  
 Total Depth (Md): 2781                  Total Depth (Tvd):  
 Amt Drilled (Md): 638                   Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd):                          P.B.T.D. (Tvd):  
 Perforations:  
 Formations:                      ANHYDRITE  
 Pres Oprs:                          DRILLING  
 Daily Cost: \$13049              CUM Cost: \$194108              AFE Cost: \$0  
 CMIC: BOWKER

Mud Data

Mud Wt: 8.4	Mud MB:	Mud MF:	Funnel Visc: 28	Solids %:
PH Factor: 10	Mud PM:	Mud PF:	Mud FV:	Sand %:
Calcium: 400	LCM:	Ex Lime:	Elec Stbl:	Oil %:
Chlorides: 3000	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$200                      CUM Mud Cost: \$3550

Pump Data

Pump Press: 1100	SPR Depth:	Mud Wt:	Av DP:	Av DC:
#1 Line Sz: 5.5	Stroke Len: 16	Max SPM: 60	Vol: 320	
#2 Line Sz: 5.5	Stroke Len: 16	Max SPM:	Vol:	

Kill Spd #1: 520@38

Casing String Data

Last Casing Sz: 13.375	Depth: 718	Liner Size:	Top@:	Btm@:
Shoe Test:	MACP:	String wt: 130000	Torque:	Mud Wt:
BHA Wt in Mud:	Rot Hrs: 71	Wt BLW Jars:	BHA LG: 956.32	
Drill Collar #: 7	24	P.U. Wt: 132000	SO Wt: 128000	
Drill Collar OD: 8	6.25	Tool Joints: 6 5/8 REG	4 1/2 XO	
Drill Pipe O.D.: 4.5		Tool Joints: XO		

Bit Data

Bit: 2	Size: 12.25	Type: HR30C	Make: HTC	Serial #: G81JE	IADC: 547
Surf HHP:	HHP:	In/Out: 719	HP/12:		WHP:
Amt Drld: 2062	Rot Hr: 66.75	WOB Hi/Lo: 65/45	RPM Hi/Lo: 80/75		ROP: 30.89
Jets #1: 12	#2: 12	#3: 12	#4:	Bit Torque:	
Jets #1: 12	#2: 12	#3: 12	#4:	Bit Torque:	

Survey Data

		--Coordinates--		Vertical	Dog	Bit
MD	TVD	Angle	Direction N or S	E or W	Section	Leg WOB
2195		1.25				Bit RPM
2386		0.75				
2602		0.75				

Mud Log Data

ROP Ft/Hr Avg: 27	Max: 45	BGG Avg:	Max:	CG:
-------------------	---------	----------	------	-----

Rig Time Data

Stimulating:	Surveying: 0.75	Drilling: 23.25	Logging:	Fishing:
--------------	-----------------	-----------------	----------	----------

Misc Data

Personnel	Contract: 13	OXY: 1	Service: 2	Other:
Rig Fuel: 5123	Used: 638	Recv'd: 0	Bar on Log:	

Detail Remarks:  
 DRILLING AHEAD WITH NO PROBLEMS. RAN FLUID CALIPER FOR CEMENT CALCULATIONS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/21/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag:  
 Days Since Spud: 6 Days on Location: 7  
 Total Depth (Md): 2807 Total Depth (Tvd):  
 Amt Drilled (Md): 26 Amt Drilled (Tvd): 0  
 P.B.T.D. (Md): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: DOLOMITE  
 Pres Opns: RU TO TEST BOP  
 Daily Cost: \$86124 CUM Cost: \$280232 AFE Cost: \$0  
 CMIC: BOWKBR

Mud Data

Mud Wt: 8.4 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 Daily Mud Cost: \$0 CUM Mud Cost: \$3550

Pump Data

Pump Press: 1100 SPR Depth: Mud Wt: AV DP: AV DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM:60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: Top@: Btm@:  
 BHA Wt in Mud: Rot Hrs: 72.25 Wt BLW Jars: BHA LG:  
 Drill Pipe O.D.: 4.5 Tool Joints:XO

Bit Data

Bit:2 Size: 12.25 Type: HR30C Make: HTC Serial #: G81JE IADC: 547  
 Surf HHP: HHP: In/Out:719/2807 HP/I2: HHP:  
 Amt Drid:2088 Rot Hr:68 WOB HI/Lo:65/45 RPM HI/Lo: 90/75 ROP: 30.71  
 Jets #1:12 #2:12 #3:12 #4: Bit Torque:  
 TFA: API Grading T:2 B:2 G:I Remarks:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 2766 1

Mud Log Data

ROP Ft/Hr Avg:25 Max: 35 BGG Avg: Max: CG:

Rig Time Data

Inspect DP: Wash Ream: Swabbing: Abandon: C & CM: 2.25  
 Nu-Nd BOP: 10.5 Pu-Ld BHA: Pu-Ld DP: Jack Down:  
 Circ Sample: Completng: Cementng: 2 Corng: Jack Up:  
 Set Packers: Run Tubng: Run Casing:4.5 Set Plugs: Cut DL:  
 Stimulating: Surveyng: Drilling: 1.25 Logging: Dry Pipe:  
 Trip Tubng: Trip Rods: Tripping: 3.25 WOC: Fishing:  
 WOW:

Misc Data

Personnel Contract: 13 OXY: 1 Service: 15 Other:  
 Rig Fuel: 4769 Used: 354 Recv'd: 0 Bar on Loc:

Detail Remarks:  
 DRILLED TO CASING POINT OF 2807'. PUMPED SWEEP AND DROPPED TOTCO. TOOK WITH BIT AND BHS. SLM-2807'. RU CASING CREW, RAN 61 JOINTS 9 5/8" CASING AND SET AT 2807'. CIRCULATED FOR 30 MINS WITH RIG PUMP. RU B.J. MIXED AND PUMPED 780 SX 35:65:6 CONTAINING 14 CACL2, 5# GILSONITE, AND 1/4# CELLOFLAKES. TAILED IN WITH 200 SX CLASS C CONTAINING 2% CACL2. DISPLACED CEMENT TO FLOAT WITH F.W. P.D. AT 1915 HOURS MST 3-2-01 WITH 1400#. RELEASED PRESSURE AND FLOATS HELD O.K. CIRCULATED 194 SX TO PIT. R.D. B.J. P.U. BOP AND SET SLIPS WITH 100,000 #. CUT OFF CASING. NU 13 5/8" 3-M BY 11" 5-M "B" SECTION. TESTED SEALS TO 1500#. O.K. NU BOP AND CHOKE MANIFOLD. RU TO TEST BOP AT RBPRT TIME. MIKE STUBBLEFIELD WITH NMCD NOTIFIED BUT DID NOT WITNESS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/22/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 84 Days on Location: 84  
 Total Depth (Md): 2995 Total Depth (Tvd):  
 Amt Drilled (Md): 188 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: DELAWARE  
 Pres Oprs: DRILLING  
 Daily Cost: \$25272 CUM Cost: \$305504 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.4 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 PH Factor: 10 Mud PM: Mud PF: Mud FV: Sand %:  
 Calcium: 400 LCM: Ex Lime: Elec Stbl: Oil %:  
 Chlorides: 3000 HTP 500: HTP 100: Oil/Wtr:  
 Daily Mud Cost: \$673 CUM Mud Cost: \$4223

Pump Data

Pump Pres: 1150 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM: 60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:  
 Kill Spd #1: 450@37

Casing String Data

Last Casing Sz: 9.825 Depth: 2807 Liner Size: Top@: Btm@:  
 Shoe Test: MACP: String Wt: 120 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Hrs: 77 Wt BLM Jars: BHA LG: 898.92  
 Drill Collar #: 6 P.D. Wt: 122 SO Wt: 118  
 Drill Collar OD: 29 Tool Joints: 4.5 XH  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 3 Size: 8.75 Type: HRS38C Make: HTC Serial #: G53JR IADC:  
 Surf HHP: HHP: In/Out: 2807 HP/I2: #HP:  
 Amt Drld: 188 Rot Hr: 4.75 WOB Hi/Lo: 60 RPM Hi/Lo: 60 ROP: 39.58  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:

Rig Time Data

Nu-Nd BOP: 1 Pu-Ld BHA: Pu-Ld DP: Jack Down: Jack Up:  
 Leak Off Test: Slip Cut Cag: Test Plugs: Test BOP: 12 Testing: 0.25  
 Circ Sample: Completing: Cementing: Coring: Cut DL: 1  
 Stimulating: Surveying: Drilling: 4.75 Logging: Fishing:  
 Trip Tubing: Trip Rods: Tripping: 2.5 WOC: NOW:  
 Drig Cement: 2.5 Other:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 9 Other:

Detail Remarks:  
 COMPLETED NIPPLING UP BOP AND MANIFOLD. MIRU SAFETY TRST AND TESTED BOP  
 TO 5000#. TIH WITH BIT #3 AND DRILLED CEMENT TO 2807. DRILLED 10' OF NEW  
 FORMATION AND TESTED TO 11.5# EMW. DRILLING AHEAD AT REPORT TIME WITH  
 NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/23/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 85 Days on Location: 85  
 Total Depth (Md): 3850 Total Depth (Tvd):  
 Amt Drilled (Md): 855 Amt Drilled (Tvd): 0  
 P.B.T.D. (Md): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: DELAWARE  
 Pres Oprs: DRILLING

Daily Cost: \$39761 CUM Cost: \$345265 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 9.1 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 Calcium: 260 LCM: Ex Lime: Elec Stbl: Oil %:  
 Daily Mud Cost: \$0 CUM Mud Cost: \$4223

Pump Data

Pump Press: 1150 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM:60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:  
 Kill Spd #1:520@37

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: Top@: Btm@:  
 Shoe Test: MACP: String Wt: 132 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Hrs: 100 Wt BLW Jars: BHA LG:898.92  
 Drill Collar #: 6 P.U. Wt: 135 SO Wt:129  
 Drill Collar OD:29 Tool Joints:4.5 XH  
 Drill Pipe O.D.:14.5 Tool Joints:X0

Bit Data

Bit:3 Size: 8.75 Type: HRS38C Make: HTC Serial #: G53JR IADC:  
 Surf MHP: HHP: In/Out:2807 HP/I2: %HP:  
 Amt Drld:1043 Rot Hr:27.5 WOB Hi/Lc:60 RPM Hi/Lc: 60 ROP: 219.58  
 Jets #1:13 #2:13 #3:13 #4: Bit Torque:  
 Jets #1:13 #2:13 #3:13 #4: Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 3307 1  
 3785 1

Mud Log Data

ROP Ft/Hr Avg:37.17 Max: BGG Avg: 20 Max: 100 CG: 220  
 Lithology: 10% SHALE, 90% SAND

Rig Time Data

Stimulating: Surveying: 1 Drilling: 23 Logging: Fishing:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 4 Other:  
 Rig Fuel: 3790 Used: 697 Recv'd: Bar on Loc:

Detail Remarks:  
 DRILLING AHEAD THROUGH STEEL PITS WITH 9.1# MW WITH NO PROBLEMS. LOOKING  
 FOR 9.3# EMW KICK AT 3950 TO 4000.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/24/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 86 Days on Location: 86  
 Total Depth (Md): 4430 Total Depth (Tvd):  
 Amt Drilled (Md): 580 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Formations: DELAWARE  
 Pres Oprs: DRILLING  
 Daily Cost: \$10961 CUM Cost: \$356226 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 9.1	Mud MB:	Mud MP:	Funnel Visc: 28	Solids %:
PH Factor: 11.5	Mud PM:	Mud PF:	Mud PV:	Sand %:
Calcium: 600	LCM:	EX Lime:	Blec Stbl:	Oil %:
Chlorides: 86000	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$394 CUM Mud Cost: \$4617

Pump Data

Pump Press: 1300	SPR Depth:	Mud Wt:	Av DP:	Av DC:
#1 Line Sz: 5.5	Stroke Len: 16	Max SPM: 60	Vol: 320	
#2 Line Sz: 5.5	Stroke Len: 16	Max SPM:	Vol:	

Kill Spd #1: 520@37

Casing String Data

Last Casing Sz: 9.625	Depth: 2807	Liner Size:	Top@:	Btm@:
Shoe Test:	MACP:	String Wt: 145	Torque:	Mud Wt:
BHA Wt in Mud:	Rot Hrs: 123.75	Wt BLW Jars:	BHA LG: 902.32	
Drill Collar #: 6		P.U. Wt: 148	SO Wt: 142	
Drill Collar OD: 2.9		Tool Joints: 4.5 KH		
Drill Pipe O.D.: 4.5		Tool Joints: X0		

Bit Data

Bit: 3	Size: 8.75	Type: HRS38C	Make: HTC	Serial #: G53JR	IADC:
Surf HHP:	HHP:	In/Out: 2807	HP/I2:	HHP:	ROP: 59.02
Amt Drld: 1623	Rot Hr: 51.25	WOB Hi/Lo: 60	RPM Hi/Lo: 60		
Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:	
Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:	

Survey Data

--Coordinates--						
MD	TVD	Angle	Direction	N or S	Vertical	Dog
4280		1			E or W	Section
						Leg
						WOB
						Bit
						RPM

Mud Log Data

ROP Ft/Hr Avg: 24.94	Max:	BGG Avg: 15	Max: 30	CG: 100
----------------------	------	-------------	---------	---------

Rig Time Data

Stimulating:	Surveying: 0.25	Drilling: 23.75	Logging:	Fishing:
--------------	-----------------	-----------------	----------	----------

Misc Data

Personnel	Contract: 15	OXY: 1	Service: 4	Other:
Rig Fuel: 3111	Used: 679	Recv'd:	Bar on Loc:	

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/25/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 87 Days on Location: 87  
 Total Depth (Md): 5030 Total Depth (Tvd):  
 Amt Drilled (Md): 600 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: DELAWARE  
 Pres Oprs: DRILLING  
 Daily Cost: \$10788 CUM Cost: \$367014 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.6 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 Calcium: 400 LCM: Ex Lime: Elec Stbl: Oil %:  
 Chlorides: 90000 HTP 500: HTP 100: Oil/Wtr:  
 Daily Mud Cost: \$78 CUM Mud Cost: \$4695

Pump Data

Pump Press: 1250 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM:60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:  
 Kill Spd #1: 940@37

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: Top@: Btm@:  
 Shoe Test: MACP: String Wt: 148 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Hrs: 147.25 Wt BLW Jars: BHA LG: 902.32  
 Drill Collar #: 6 P.U. Wt: 153 SO Wt: 142  
 Drill Collar OD: 29 Tool Joints: 4.5 XH  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 3 Size: 8.75 Type: HRS38C Make: HTC Serial #: G530R TADC:  
 Surf RHP: HHP: In/Out: 2807 HP/12: RHP:  
 Amt Drld: 2223 Rot Hr: 74.75 WOB Hi/Lo: 60 RFM Hi/Lo: 60 ROP: 43.38  
 Jets #1:13 #2:13 #3:13 #4: Bit Torque:  
 Jets #1:13 #2:13 #3:13 #4: Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 4774 0.75

Mud Log Data

ROP Ft/Hr Avg: 23.53 Max: BGG Avg: 200 Max: 400 CG: 400  
 Lithology: 100% SAND

Rig Time Data

Stimulating: Surveying: 0.5 Drilling: 23.5 Logging: Fishing:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 3 Other:  
 Rig Fuel: 2269 Used: 842 Recv'd: Bar on Loc:

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/26/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 88 Days on Location: 88  
 Total Depth (MG): 5640 Total Depth (Tvd):  
 Amt Drilled (MG): 610 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mcd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Free Oprs: DRILLING  
 Daily Cost: \$10961 CUM Cost: \$377975 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.4	Mud MB:	Mud MP:	Funnel Visc: 28	Solids %:
PH Factor: 10	Mud PM:	Mud PF:	Mud PV:	Sand %:
Calcium: 320	LCM:	Ex Lime:	Elec Stbl:	Oil %:
Chlorides: 8500	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$309 CUM Mud Cost: \$5004

Pump Data

Pump Press: 1200	SPR Depth:	Mud Wt:	Av DP:	Av DC:
#1 Line Sz: 5.5	Stroke Len: 16	Max SPM: 60	Vol: 320	
#2 Line Sz: 5.5	Stroke Len: 16	Max SPM:	Vol:	

Kill Spd #1: 510@37

Casing String Data

Last Casing Sz: 9.625	Depth: 2807	Liner Size:	Top@:	Btm@:
Shoe Test:	MACP:	String Wt: 165	Torque:	Mud Wt:
BHA Wt in Mud:	Rot Hrs: 170.25	Wt BLW Jars:	BHA LG: 902.32	
Drill Collar #: 6		P.U. Wt: 168	SO Wt: 162	
Drill Collar OD: 29		Tool Joints: 4.5 XH		
Drill Pipe O.D.: 4.5		Tool Joints: X0		

Bit Data

Bit: 3	Size: 8.75	Type: HRS38C	Make: HTC	Serial #: G53JR	IADC:
	Surf HHP:	HHP:	In/Out: 2807	HP/12:	%HP:
	Amt Drl'd: 2833	Rot Hr: 97.25	WOB Hi/Lo: 60	RPM Hi/Lo: 60	ROP: 29.13
	Jets #1:13	#2:13	#3:13	#4:	Bit Torque:
	Jets #1:13	#2:13	#3:13	#4:	Bit Torque:

Survey Data

		--Coordinates--		Vertical	Dog	Bit
MD	TVD	Angle	Direction N or S	E or W	Section	Leg
5251		0.75				WOB
						RPM

Mud Log Data

ROP Ft/Hr Avg: 26.52	Max:	BGG Avg: 350	Max: 400	CG: 756
Lithology: 100% LIME				

Rig Time Data

Rig Service: 0.5	Rig Repair:	Observe:	Rig Down:	Rig Up:
Stimulating:	Surveying: 0.5	Drilling: 23	Logging:	Fishing:

Misc Data

Personnel Contract: 15	OXY: 1	Service: 3	Other:
Rig Fuel: 1494	Used: 7751	Recv'd:	Bar on Loc:

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/27/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 89 Days on Location: 89  
 Total Depth (MD): 6150 Total Depth (Tvd):  
 Amt Drilled (MD): 510 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: DRILLING

Daily Cost: \$10816 CUM Cost: \$388791 AFB Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.4 Mud MB: Mud MP: Punnel Visc: 28 Solids %:  
 PH Factor: 10 Mud PM: Mud PF: Mud PV: Sand %:  
 Calcium: 400 LCM: Ex Lime: Elec Stbl: Oil %:  
 Chlorides: 10000 HTP 500: HTP 100: Oil/Wtr:  
 Daily Mud Cost: \$193 CUM Mud Cost: \$5197

Pump Data

Pump Press: 1200 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM:60 Vol: 120  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:  
 Kill Spd #1:520@27

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: Top@: Btm@:  
 Shoe Test: MACP: String Wt: 174 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Hrs: 193.75 Wt BLW Jars: BHA LG:902.32  
 Drill Collar #: 6 P.U. Wt: 177 SO Wt:171  
 Drill Collar OD:29 Tool Joints:4.5 XH  
 Drill Pipe O.D.:4.5 Tool Joints:XO

Bit Data

Bit:3 Size: 6.75 Type: HRS38C Make: HTC Serial #: G53JR IADC:  
 Surf HHP: MHP: In/Out:2807 HP/I2: %HP:  
 Amt Drld:3343 Rot Hr:121.25 WOB Hi/Lo:60 RPM Hi/Lo: 60 ROP: 34.38  
 Jets #1:13 #2:13 #3:13 #4: Bit Torque:  
 Jets #1:13 #2:13 #3:13 #4: Bit Torque:

Survey Data

MD TVD Angle Direction N or S --Coordinates-- Vertical Deg Bit  
 5722 0.75 E or W Section Leg WOB RPM

Mud Log Data

ROP Ft/Hr Avg:21.7 Max: BGG Avg: 400 Max: 800 CG: 1100  
 Lithology: 10% SHALE, 90% LIME

Rig Time Data

Stimulating: Surveying: 0.5 Drilling: 23.5 Logging: Fishing:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 5 Other:  
 Rig Fuel: 8098 Used: 743 Recv'd: 7200 Bar on Loc:

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/28/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 90 Days on Location: 90  
 Total Depth (Md): 6655 Total Depth (Tvd):  
 Amt Drilled (Md): 505 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: DRILLING

Daily Cost: \$10708 CUM Cost: \$399499 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.4	Mud MB:	Mud MP:	Funnel Visc: 28	Solids %:
PK Factor: 10	Mud PM:	Mud PF:	Mud PV:	Sand %:
Calcium: 400	LCM:	Bx Lime:	Elec Stbl:	Oil %:
Chlorides: 11000	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$124 CUM Mud Cost: \$5321

Pump Data

Pump Press: 1250	SPR Depth:	Mud Wt:	AV DP:	AV DC:
#1 Line Sz: 5.5	Stroke Len: 16	Max SPM: 60	Vol: 320	
#2 Line Sz: 5.5	Stroke Len: 16	Max SPM:	Vol:	

Kill Spd #1: 530@37

Casing String Data

Last Casing Sz: 9.625	Depth: 2807	Liner Size:	Top@:	Btm@:
Shoe Test:	MACP:	String Wt: 180	Torque:	Mud Wt:
BHA Wt in Mud:	Rot Mts: 217.25	Wt BLW Jars:	BHA LG: 902.32	
Drill Collar #: 6		P.U. Wt: 184	SO Wt: 176	
Drill Collar OD: 29		Tool Joints: 4.5 XM		
Drill Pipe O.D.: 4.5		Tool Joints: X0		

Bit Data

Bit: 3	Size: 8.75	Type: HRS38C	Make: HTC	Serial #: G53JR	IADC:
	Surf RHP:	RHP:	In/Out: 2807	HP/I2:	WHP:
	Amt Drld: 3848	Rot Hr: 144.75	WOB Hi/Lo: 60	RPM Hi/Lo: 60	ROP: 31.74
	Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:
	Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:

Survey Data

			--Coordinates--		Vertical	Dog	Bit
MD	TVD	Angle	Direction	N or S	E or W	Section	Leg
6220		0.75					WOB
							RPM

Mud Log Data

ROP Ft/Hr Avg: 21.48 Max: BGG Avg: 500 Max: 700 CG: 900  
 Lithology: 10% SHALE, 60% SAND, 30% LIME

Rig Time Data

Stimulating: Surveying: 0.5 Drilling: 23.5 Logging: Fishing:

Misc Data

Personnel	Contract: 15	OXY: 1	Service: 4	Other:
Rig Fuel: 7400	Used: 614	Recv'd:	Bar on Loc:	

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/29/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 91 Days on Location: 91  
 Total Depth (Md): 7161 Total Depth (Tvd):  
 Amt Drilled (Md): 506 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: DRILLING  
 Daily Cost: \$10808 CUM Cost: \$410307 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.4 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 Calcium: 400 LCM: Ex Lime: Elec Stbl: Oil %:  
 Chlorides: 6000 HTP 500: HTP 100: Oil/Wtr:  
 Daily Mud Cost: \$141 CUM Mud Cost: \$5462

Pump Data

Pump Press: 1250 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM: 60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:  
 Kill Spd #1: 540@37

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: Tpe: Btm:  
 Shoe Test: MACP: String Wt: 192 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Hrs: 240.75 Wt BLW Jars: BHA LG: 902.32  
 Drill Collar #: 6 P.U. Wt: 196 SO Wt: 188  
 Drill Collar OD: 29 Tool Joints: 4.5 XH  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 3 Size: 8.75 Type: HRS38C Make: HTC Serial #: G53JR IADC:  
 Surf HHP: HHP: In/Out: 2807 HP/IZ: HHP:  
 Amt Drld: 4354 Rot Hr: 168.25 WOB Hi/Lo: 60 RPM Hi/Lo: 60 ROP: 30.08  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 6704 1

Mud Log Data

ROP Ft/Hr Avg: 21.53 Max: BGG Avg: 500 Max: 700 CG: 1151  
 Lithology: 30% SHALE, 70% LIME

Rig Time Data

Stimulating: Surveying: 0.5 Drilling: 23.5 Logging: Fishing:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 4 Other:  
 Rig Fuel: 6607 Used: 793 Recv'd: Bar on Loc:

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/30/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 92 Days on Location: 92  
 Total Depth (Md): 7660 Total Depth (Tvd):  
 Amt Drilled (Md): 499 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: DRILLING  
 Daily Cost: \$22644 CUM Cost: \$432951 AFB Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.4	Mud MB:	Mud MP:	Funnel Visc: 28	Solids %:
PH Factor: 10	Mud FM:	Mud PF:	Mud PV:	Sand %:
Calcium: 480	LCM:	Ex Lime:	Slec Stbl:	Oil %:
Chlorides: 10000	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$56 CUM Mud Cost: \$5518

Pump Data

Pump Press: 1300	SPR Depth:	Mud Wt:	Av DP:	Av DC:
#1 Line Sz: 5.5	Stroke Len: 16	Max SPM: 60	Vol: 320	
#2 Line Sz: 5.5	Stroke Len: 16	MAX SPM:	Vol:	

Kill Spd #1: 550@37

Casing String Data

Last Casing Sz: 9.625	Depth: 2807	Liner Size:	Top@:	Btm@:
Shoe Test:	MACP:	String Wt: 200	Torque:	Mud Wt:
BHA Wt in Mud:	Rot Hrs: 263.5	Wt BLM Jars:	BHA LG: 902.32	
Drill Collar #: 6		P.U. Wt: 204	SO Wt: 196	
Drill Collar OD: 29		Tool Joints: 4.5 XH		
Drill Pipe O.D.: 4.5		Tool Joints: X0		

Bit Data

Bit: 3	Size: 8.75	Type: HRS38C	Make: HTC	Serial #: G53JR	IADC:
Surf HHP:	HHP:	In/Out: 2807	HP/I2:	HHP:	
Amt Drld: 4853	Rot Hr: 191	WOB Hi/Lo: 60	RPM Hi/Lo: 60	ROP: 25.41	
Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:	
Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:	

Survey Data

MD	TVD	Angle	Direction	N or S	E or W	Section	Dog Leg	WOB	Bit RPM
7246		1.5							

Mud Log Data

ROP Ft/Hr Avg: 21.93 Max: HGG Avg: 500 Max: 700 CG: 989  
 Lithology: 30% SHALE, 70% LIME

Rig Time Data

Stimulating: Surveying: 1.25 Drilling: 22.75 Logging: Fishing:

Misc Data

Personnel	Contract: 15	OXY: 1	Service: 4	Other:
Rig Fuel: 5903	Used: 704	Recv'd:	Bar on Loc:	

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 03/31/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 93 Days on Location: 93  
 Total Depth (Md): 8193 Total Depth (Tvd):  
 Amt Drilled (Md): 533 Amt Drilled (Tvd): 0  
 P.B.T.D. (Md): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: DRILLING  
 Daily Cost: \$10586 CUM Cost: \$443537 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 8.8	Mud MB:	Mud MP:	Funnel Visc: 28	Solids %:
PH Factor: 10	Mud PM:	Mud PF:	Mud PV:	Sand %:
Calcium: 320	LCM:	Ex Lime:	Elec Scrbl:	Oil %:
Chlorides: 10000	HTP 500:		HTP 100:	Oil/Wtr:

Daily Mud Cost: \$0 CUM Mud Cost: \$5518

Pump Data

Pump Press: 1350	SPR Depth:	Mud Wt:	Av DP:	Av DC:
#1 Line Sz: 5.5	Stroke Len: 16	Max SPM: 60	Vol: 320	
#2 Line Sz: 5.5	Stroke Len: 16	Max SPM:	Vol:	

Kill Spd #1: 570@37

Casing String Data

Last Casing Sz: 9.625	Depth: 2807	Liner Size:	Top@:	Btm@:
Shoe Test:	MACP:	String Wt: 206	Torque:	Mud Wt:
BHA Wt in Mud:	Rot Hrs: 286	Wt BLW Jars:	BHA LG: 902.32	
Drill Collar #: 6		P.O. Wt: 213	SO Wt: 199	
Drill Collar OD: 29		Tool Joints: 4.5 XH		
Drill Pipe O.D.: 4.5		Tool Joints: X0		

Bit Data

Bit: 3	Size: 8.75	Type: HRS38C	Make: HTC	Serial #: G53JR	IADC:
	Surf HHP:	HHP:	In/Out: 2807	HP/12:	%HP:
	Amt Drld: 5386	Rot Hr: 213.5	WOB Hi/Lc: 60	RPM Hi/Lc: 60	ROP: 25.23
	Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:
	Jets #1: 13	#2: 13	#3: 13	#4:	Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit					
MD	TVD	Angle	Direction	N or S	E or W Section
7727		1.75			

Mud Log Data

ROP Ft/Hr Avg: 23.69 Max: BGG Avg: 50 Max: 75 CG: 75  
 Lithology: 10% SHALE, 90% LIME

Rig Time Data

Rig Service: 0.75	Rig Repair:	Observe:	Rig Down:	Rig Up:
Stimulating:	Surveying: 0.75	Drilling: 22.5	Logging:	Fishing:

Misc Data

Personnel Contract: 15	OXY: 1	Service: 5	Other:
Rig Fuel: 5265 Used: 700	Recv'd:	Bar on Loc:	

Detail Remarks:  
 DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 04/01/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 94 Days on Location: 94  
 Total Depth (Md): 8529 Total Depth (Tvd):  
 Amt Drilled (Md): 336 Amt Drilled (Tvd): 0  
 P.B.T.D. (Mtd): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: TRIPPING FOR BIT  
 Daily Cost: \$10744 CUM Cost: \$454281 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 9.1 Mud MB: Mud MF: Funnel Visc: 28 Solids %:  
 Calcium: 800 LCM: Ex Lime: Elec Stbl: Oil %:  
 Chlorides: 82000 HTP 500: HTP 100: Oil/Wtr:  
 Daily Mud Cost: \$158 CUM Mud Cost: \$5676

Pump Data

Pump Press: 1350 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM: 60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: TopØ: BtmØ:  
 Shoe Test: MACP: String Wt: 220 Torque: Mud Wt:  
 BHA Wt in Mud: Rot Hrs: 306.25 Wt BLM Jars: BHA LG: 902.32  
 Drill Collar #: 6 P.U. Wt: 230 SO Wt: 210  
 Drill Collar OD: 29 Tool Joints: 4.5 XH  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 3 Size: 8.75 Type: MRS38C Make: HTC Serial #: G53JR IADC:  
 Surf HHP: HHP: In/Out: 2807 HP/12: HHP:  
 Amt Drl'd: 5722 Rot Hr: 233.75 WOB Hi/Lc: 60 RPM Hi/Lc: 60 ROP: 24.48  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:

Survey Data

MD	TVD	Angle	Direction	N or S	E or W	Section	Dog Leg	WOB	Bit RPM
8204		2.25							
8299		1.5							
8395		1.25							

Mud Log Data

ROP Ft/Hr Avg: 16.59 Max: BCG Avg: 20 Max: 30 CG: 60  
 Lithology: 90% SAND, 10% LIME

Rig Time Data

Stimulating: Surveying: 2 Drilling: 20.25 Logging: Fishing:  
 Trip Tubing: Trip Rods: Tripping: 0.75 WOC: WOW:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 4 Other:  
 Rig Fuel: 8227 Used: 700 Recv'd: 3600 Bar on Loc:

Detail Remarks:  
 DRILLING TO 8529. TOH FOR BIT AT REPORT TIME WITH NO PROBLEMS.

OXY HONEST JOHN STATE NO. 1  
 API#: 30-015-31466-00  
 04/02/2001

Job: DRILL AND EQUIP  
 Rig#: 207  
 Contractor: UTI  
 Flag: GREEN  
 Days Since Spud: 95 Days on Location: 95  
 Total Depth (Md): 8713 Total Depth (Tvd):  
 Amt Drilled (Md): 184 Amt Drilled (Tvd): 0  
 P.B.T.D. (Md): P.B.T.D. (Tvd):  
 Perforations:  
 Formations: BONE SPRINGS  
 Pres Oprs: DRILLING  
 Daily Cost: \$18032 CUM Cost: \$472313 AFE Cost: \$0  
 CMIC: MIKE LOVE

Mud Data

Mud Wt: 9.1 Mud MB: Mud MP: Funnel Visc: 28 Solids %:  
 PH Factor: 10 Mud BM: Mud PF: Mud PV: Sand %:  
 Calcium: 800 LCM: Ex Lime: Elec Stbl: Oil %:  
 Chlorides: 82000 HTP \$00: HTP 100: Oil/Wtr:

Daily Mud Cost: \$158 CUM Mud Cost: \$5834

Pump Data

Pump Press: 1350 SPR Depth: Mud Wt: Av DP: Av DC:  
 #1 Line Sz: 5.5 Stroke Len: 16 Max SPM: 60 Vol: 320  
 #2 Line Sz: 5.5 Stroke Len: 16 Max SPM: Vol:

Casing String Data

Last Casing Sz: 9.625 Depth: 2807 Liner Size: Top@: Btm@:  
 Shoe Test: MACP: String Wt: 220 Torque: Mud Wt:  
 BMA Wt in Mud: Rot Hrs: 9 Wt BLM Jars: BMA LG: 887.2  
 Drill Collar #: 6 P.U. Wt: 230 SO Wt: 210  
 Drill Collar OD: 29 Tool Joints: 4.5 XH  
 Drill Pipe O.D.: 4.5 Tool Joints: X0

Bit Data

Bit: 3 Size: 8.75 Type: HRS38C Make: HTC Serial #: G53JR IADC:  
 Surf HHP: HHP: In/Out: 2807/8529 HP/I2: %HP:  
 Amt Drld: 5722 Rot Hr: 233.75 WOB Hi/Lo: 60 RPM Hi/Lo: 60 ROP: 24.48  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:  
 Bit: 4 Size: 8.75 Type: HR44C Make: HTC Serial #: M78DW IADC:  
 Surf HHP: HHP: In/Out: 8529 HP/I2: %HP:  
 Amt Drld: 184 Rot Hr: 9 WOB Hi/Lo: 60 RPM Hi/Lo: 60 ROP: 20.44  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:  
 Jets #1: 13 #2: 13 #3: 13 #4: Bit Torque:

Survey Data

--Coordinates-- Vertical Dog Bit  
 MD TVD Angle Direction N or S E or W Section Leg WOB RPM  
 8529 1.5

Mud Log Data

ROP Ft/Hr Avg: 20.44 Max: BGG Avg: 150 Max: 200 CG: 540  
 Shale Density: TG: 144 M2S: FL Temp: PP:  
 Lithology: 100% SAND

Rig Time Data

Inspect DP: Wash Ream: 2.5 Swabbing: Abandon: C & CM:  
 Stimulating: Surveying: Drilling: 9 Logging: Fishing:  
 Trip Tubing: Trip Rods: Tripping: 12.5 WOC: WOW:

Misc Data

Personnel Contract: 15 OXY: 1 Service: 4 Other:  
 Rig Fuel: 7835 Used: 392 Recv'd: Bar on Loc:

Detail Remarks:  
 COMPLETED TOH, TRIP CHECK ALL DCS AND TOOLS, NO BAD CONNECTION. WASH AND  
 REAM 90 FT TO BOTTOM. DRILLING AHEAD AT REPORT TIME WITH NO PROBLEMS.

RBD things.

30 in

WELLS IN CITY OF CARLSBAD WELLHE.

- ✓ 30-015-25379 K-1-23s-25e LOUIS DREYFU ACTIVE
- 30-015-23106 ✓ A-10-23s-25e ENRON OIL & G P&A  
858 N 1038E
- ✓ 30-015-20785 H-11-23s-25e MINERAL TECH. INC. MARY FED. #1 ACTIVE
- 30-015-24942 ✓ H-11-23s-25e EXXON CORP. MARY FED. #3 P&A
- ✓ 30-015-25378 N-11-23s-25e PINON PETRO. INC. MARY FED. #5 SHUT-IN
- 30-015-25046 ✓ H-11-23s-25e EXXON CORP. MARY FED. #3y P&A
- ✓ 30-015-20999 F-12-23s-25e LOUIS DREYFUS NAT. GAS CORP. SQUAW FED. #1 P&A
- 30-015-00136 ✓ 0-12-23s-25e TURNER DEVITO DEVITO #1 P&A
- 30-015-24701 ✓ G-13-23s-25e EXXON CORP. SQUAW FED. #2 P&A
- ~~30-015-24595 P-13-23s-25e EXXON CORP. NEW MEXICO DS ST. #1 EXP. DRLG INT~~
- 30-015-22430 ✓ J-15-23s-25e GULF OIL CORP. SHEARN D FED. COM. #1 P&A
- ~~30-015-24698 A-24-23s-25e EXXON CORP. MARY FED. #2 EXP. DRLG INT.~~
- 30-015-25135 ✓ H-24-23s-25e EXXON CORP. MARY FED. #4 P&A
- ✓ 30-015-30524 O-25-23s-25e DEVON ENERGY PROD. CO. RUGER 25 FED. #1 EXP. DRLG INT.

Cancelled APDs →

Not on FCSDATA

"

WELLS LOCATED WITH-IN 1 MILE CITY OF CARLSBAD  
WELLHEAD PROTECTION AREA.

- ✓ 30-015-29800 B-25-22s-25e PENWELL ENERGY INC. FILAREE 25 FED. COM. #1
- ✓ 30-015-30833 B-25-22s-25e DEVON ENERGY CORP. FILAREE 25 FED. COM. #1
- 30-015-00135 ✓ G-25-22s-25e ✓ WESTERN OIL PROD. ✓ MCKITTRICK FED. #1 ✓
- 30-015-23269 H-27-22s-25e POLLUX LTD NE ROCK TANK FED C #1 *not on Time*
- 30-015-10560 ✓ N-28-22s-25e ✓ MONSANTO CO. ✓ CUEVA #1 ✓
- ✓ 30-015-24404 C-30-22s-26e SABA ENERGY OF TEXAS INC. MCKITTRICK 30 FED. #1
- 30-015-25650 ✓ K-30-22s-26e ✓ ENRON OIL & GAS ✓ GOBBLERS KNOB 30 FED. #1 ✓
- 30-015-22177 ✓ L-30-22s-26e ✓ HANAGAN PETRO. CORP. ✓ MCKITTRICK #1 ✓
- ✓ 30-015-29522 H-31-22s-26e DEVON ENERGY PROD. CO. HACKBERRY 31 ST. #1
- ✓ 30-015-27751 A-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #3
- ✓ 30-015-28849 B-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #4
- ✓ 30-015-29185 G-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #6
- ✓ 30-015-27559 H-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. COM. #2
- 30-015-25387 H-32-22s-26e EXXON CORP. NEW MEXICO FA ST. COM. #1 *not on Time*
- ✓ 30-015-27558 I-32-22s-26e LOUIS DREYFUS NAT. GAS CO. BARBADOS ST. #1
- ✓ 30-015-25352 K-32-22s-26e LOUIS DREYFUS NAT. GAS CO. NEW MEX. EV ST. #1
- ✓ 30-015-28507 P-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #5
- 30-015-26131 ✓ L-16-23s-25e ✓ SIETE OIL & GAS CORP. ✓ WITCHITA ST. #1
- 30-015-22230 ✓ B-22-23s-25e ✓ EXXON CORP. ✓ N. HORSE SHOE BEND #1
- 30-015-21656 ✓ K-34-23s-25e ✓ HANAGAN PETRO. CORP. ✓ HORSESHOE BEND #1
- 30-015-00137 ✓ D-35-23s-25e ✓ MCINTYRE ✓ SPEAROW R ETAL #1
- 30-015-25227 I-36-23s-25e ✓ EXXON CORP. ✓ NEW MEXICO ER ST. #1
- 30-015-25309 G-36-23s-25e EXXON CORP. NEW MEXICO ET LEASE #1 *not on Time*
- ✓ 30-015-24572 P-5-23s-26e HILLIN PROD. CO. CITIES 5 FED. #1

- ✓ 30-015-23538 I-5-23s-26e ✓ CITIES SERVICE OIL CO. FED. N COM. #1
- ✓ 30-015-00374 N-8-23s-26e ✓ ROUNDEY GEORGE ROUNDY FED. #1
- ✓ 30-015-31529 D-17-23s-26e SARAGOSSA 17 FED. COM. #1
- ✓ 30-015-26146 I-17-23s-26e BETTTIS BOYLE AND STOVAL EXXON 17 FED. COM. #1
- ✓ 30-015-31935 L-17-23s-26e LOUIS DREYFUS NAT. GAS CO. SARAGOSSA 17 ST. COM. #3
- ✓ 30-015-31522 L-17-22s-26e OXY USA INC. OXY PEA SHOOTER STATE #1
- 30-015-21161 P-17-23s-26e ✓ COQUINA OIL CORP. ✓ EXXON A FED. #1 ✓
- ✓ 30-015-31466 G-18-23s-26e OXY USA WTP LIMITED PARTNERS OXY HONEST JOHN STATE #1
- 30-015-24641 N-18-23s-26e ✓ MAYNE & MERTZ ✓ BLUE WATER FED. #1 ✓
- 30-015-00375 C-18-23s-26e ✓ MORAN E PAUL ✓ RAMUZ #1 ✓
- ✓ 30-015-24592 1-19-23s-26e NADEL & GUSSMAN PERMIAN, L NEW MEXICO DI STATE #2
- ✓ 30-015-24425 2-19-23s-26e NADEL & GUSSMAN PERMIAN, L NEW MEXICO DI ST. #1
- ✓ 30-015-24591 3-19-23s-26e NADEL & GUSSMAN PERMIAN, L NEW MEXICO DI ST. #3
- ✓ 30-015-32144 C-19-23s-26e LOUIS DREYFUS NAT. GAS CO. SARAGOSSA 19 ST. COM. #1
- ✓ 30-015-24591 L-19-23s-26e EXXON CORP. NEW MEXICO DI ST. #3
- 30-015-24593 M-19-23s-26e EXXON CORP. NEW MEXICO DI ST. #4 *Not on Time*
- ✓ 30-015-31936 N-19-23s-26e DEVON ENERGY PROD. CO. FH 19 STATE COM. #1
- ✓ 30-015-24425 E-19-23s-26e EXXON DORP. NEW MEXICO DI ST. #1
- ✓ 30-015-24592 D-19-23s-26e EXXON CORP. NEW MEXICO DI ST. #2
- 30-015-20311 J-19-23s-26e ✓ SAMEDAN OIL CORP. ✓ UNION ST. #1 ✓
- 30-015-00376 A-19-23-26 ✓ DEVITO DC STATE #1
- ✓ 30-015-20144 C-31-23s-26e YATES PETRO. CORP. N. WHITE CITY ABP FED. #1
- ✓ 30-015-23462 F-31-23s-26e AMOCO PROD. CO. STATE IZ COM. #1

WELLS LOCATED WITH-IN 1 MILE CITY OF CARLSBAD  
WELLHEAD PROTECTION AREA.

30-015-29800 B-25-22s-25e PENWELL ENERGY INC. FILAREE 25 FED. COM. #1  
30-015-30833 B-25-22s-25e DEVON ENERGY CORP. FILAREE 25 FED. COM. #1  
30-015-00135 G-25-22s-25e WESTERN OIL PROD. MCKITTRICK FED. #1  
30-015-23269 H-27-22s-25e POLLUX LTD NE ROCK TANK FED C #1  
30-015-10560 N-28-22s-25e MONSANTO CO. CUEVA #1  
30-015-24404 C-30-22s-26e SABA ENERGY OF TEXAS INC. MCKITTRICK 30 FED. #1  
30-015-25650 K-30-22s-26e ENRON OIL & GAS GOBBLERS KNOB 30 FED. #1  
30-015-22177 L-30-22s-26e HANAGAN PETRO. CORP. MCKITTRICK #1  
30-015-29522 H-31-22s-26e DEVON ENERGY PROD. CO. HACKBERRY 31 ST. #1  
30-015-27751 A-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #3  
30-015-28849 B-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #4  
30-015-29185 G-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #6  
30-015-27559 H-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. COM. #2  
30-015-25387 H-32-22s-26e EXXON CORP. NEW MEXICO FA ST. COM. #1  
30-015-27558 I-32-22s-26e LOUIS DREYFUS NAT. GAS CO. BARBADOS ST. #1  
30-015-25352 K-32-22s-26e LOUIS DREYFUS NAT. GAS CO. NEW MEX. EV ST. #1  
30-015-28507 P-32-22s-26e LOUIS DREYFUS NAT. GAS CO. EV ST. #5  
30-015-26131 L-16-23s-25e SIETE OIL & GAS CORP. WITCHITA ST. #1  
30-015-22230 B-22-23s-25e EXXON CORP. N. HORSE SHOE BEND #1  
30-015-21656 K-34-23s-25e HANAGAN PETRO. CORP. HORSESHOE BEND #1  
30-015-00137 D-35-23s-25e MCINTYRE SPEAROW R ETAL #1  
30-015-25227 I-36-23s-25e EXXON CORP. NEW MEXICO ER ST. #1  
30-015-25309 G-36-23s-25e EXXON CORP. NEW MEXICO ET LEASE #1  
30-015-24572 P-5-23s-26e HILLIN PROD. CO. CITIES 5 FED. #1

30-015-23538 I-5-23s-26e CITIES SERVICE OIL CO. FED. N COM. #1  
30-015-00374 N-8-23s-26e ROUNDEY GEORGE ROUNDY FED. #1  
30-015-31529 D-17-23s-26e SARAGOSSA 17 FED. COM. #1  
30-015-26146 I-17-23s-26e BETTIS BOYLE AND STOVAL EXXON 17 FED. COM. #1  
30-015-31935 L-17-23s-26e LOUIS DREYFUS NAT. GAS CO. SARAGOSSA 17 ST. COM. #3  
30-015-31522 L-17-22s-26e OXY USA INC. OXY PEA SHOOTER STATE #1  
30-015-21161 P-17-23s-26e COQUINA OIL CORP. EXXON A FED. #1  
30-015-31466 G-18-23s-26e OXY USA WTP LIMITED PARTNERS OXY HONEST JOHN STATE #1  
30-015-24641 N-18-23s-26e MAYNE & MERTZ BLUE WATER FED. #1  
30-015-00375 C-18-23s-26e MORAN E PAUL RAMUZ #1  
30-015-24592 1-19-23s-26e NADEL & GUSSMAN PERMIAN, L NEW MEXICO DI STATE #2  
30-015-24425 2-19-23s-26e NADEL & GUSSMAN PERMIAN, L NEW MEXICO DI ST. #1  
30-015-24591 3-19-23s-26e NADEL & GUSSMAN PERMIAN, L NEW MEXICO DI ST. #3  
30-015-32144 C-19-23s-26e LOUIS DREYFUS NAT. GAS CO. SARAGOSSA 19 ST. COM. #1  
30-015-24591 L-19-23s-26e EXXON CORP. NEW MEXICO DI ST. #3  
30-015-24593 M-19-23s-26e EXXON CORP. NEW MEXICO DI ST. #4  
30-015-31936 N-19-23s-26e DEVON ENERGY PROD. CO. FH 19 STATE COM. #1  
30-015-24425 E-19-23s-26e EXXON DORP. NEW MEXICO DI ST. #1  
30-015-24592 D-19-23s-26e EXXON CORP. NEW MEXICO DI ST. #2  
30-015-20311 J-19-23s-26e SAMEDAN OIL CORP. UNION ST. #1  
30-015-00376 A-19-23-26 DEVITO DC STATE #1  
30-015-20144 C-31-23s-26e YATES PETRO. CORP. N. WHITE CITY ABP FED. #1  
30-015-23462 F-31-23s-26e AMOCO PROD. CO. STATE IZ COM. #1



LOCATION	DATE OF COLLECTION	DEPTH FROM FORMATION	SAMP. METHOD	SILICA (SiO2)	IRON (Fe)	CALCIUM (Ca)	MAGNESIUM (Mg)	SODIUM + POTASSIUM (Na+K)	BICARBONATE (HCO3)	SULFATE (SO4)	HYDROGEN SULFIDE (HS)	CHLORIDE (Cl)	FLUORIDE (F)	NITRATE (NO3)	DENSITY (G/ML)	DISSOLVED SOLIDS (SUM)	(Ca+Mg) (MG/L)	SPECIFIC CONDUCTANCE (UMH/CM AT 25C)	SPECIFIC CONDUCTANCE (UMH/CM AT 18C)	RESISTIVITY MEAS. (OHM-CM) AT (OHM-CM) DEG. C AT 18C	RESISTIVITY CALC. (OHM-CM) AT 18C	RESISTIVITY (OHM-CM) AT 18C
10 25	01-26-61	4,728-	4,734	4530LAR	58	24,000	3,300	85,000	112	400	0.0	150,000	1.174	250,000	521	190,000	0.64	12.0	0.53	6.0	0.53	6.0
15 25	01-26-60	4,694-	4,694	4530LAR	DT	4,000	1,700	120,000	112	1,800	0.0	190,000	1.195	190,000	0.62	190,000	0.38	25.0	0.38	25.0	0.38	25.0
15 25	01-26-60	4,620	4,620	4530LAR	DT	3,600	600	120,000	112	1,700	0.0	190,000	1.195	190,000	0.62	190,000	0.38	25.0	0.38	25.0	0.38	25.0
16 25	01-26-61	4,656-	4,656	4530LAR	DT	14,000	3,200	63,000	139	460	0.0	140,000	1.155	220,000	0.43	184,000	0.43	184,000	0.43	184,000	0.43	184,000
16 25	01-26-61	4,700-	4,679	4530LAR	DT	14,000	3,200	63,000	139	460	0.0	140,000	1.155	220,000	0.43	184,000	0.43	184,000	0.43	184,000	0.43	184,000
22 25	11-10-60	4,712-	4,740	4530LAR	SB	26,000	3,300	78,000	198	550	0.0	170,000	1.160	280,000	0.43	198,000	0.43	198,000	0.43	198,000	0.43	198,000
22 25	01-26-62	4,671-	4,654	4530LAR	DT	26,000	3,300	78,000	198	550	0.0	170,000	1.160	280,000	0.43	198,000	0.43	198,000	0.43	198,000	0.43	198,000
22 25	01-26-62	4,671-	4,654	4530LAR	DT	26,000	3,300	78,000	198	550	0.0	170,000	1.160	280,000	0.43	198,000	0.43	198,000	0.43	198,000	0.43	198,000
28 28	01-26-62	4,460-	4,460	4530LAR	DT	28,000	2,300	59,000	260	1,000	0.0	120,000	1.170	260,000	0.72	178,000	0.43	24.0	0.43	24.0	0.43	24.0
35 26	04-03-64	4,531-	4,531	4530LAR	DT	27,000	2,600	62,000	85	310	0.0	160,000	1.188	260,000	0.63	196,000	0.63	196,000	0.63	196,000	0.63	196,000
35 26	04-03-64	4,531-	4,531	4530LAR	DT	27,000	2,600	62,000	85	310	0.0	160,000	1.188	260,000	0.63	196,000	0.63	196,000	0.63	196,000	0.63	196,000
31 26	01-26-64	4,531-	4,531	4530LAR	DT	28,000	2,600	62,000	85	310	0.0	160,000	1.188	260,000	0.63	196,000	0.63	196,000	0.63	196,000	0.63	196,000
31 26	01-26-64	4,531-	4,531	4530LAR	DT	28,000	2,600	62,000	85	310	0.0	160,000	1.188	260,000	0.63	196,000	0.63	196,000	0.63	196,000	0.63	196,000
32 19	07-29-59	3,852-	3,872	4536RUG	PT	480	220	1,000	1,070	1,800	0.0	38,000	1.014	5,800	0.937	6,030	0.860	26.0	1.859	7.5	0.74	6.7
32 19	07-29-59	3,852-	3,872	4536RUG	PT	480	220	1,000	1,070	1,800	0.0	38,000	1.014	5,800	0.937	6,030	0.860	26.0	1.859	7.5	0.74	6.7
32 19	07-29-59	3,852-	3,872	4536RUG	PT	480	220	1,000	1,070	1,800	0.0	38,000	1.014	5,800	0.937	6,030	0.860	26.0	1.859	7.5	0.74	6.7
32 19	07-29-59	3,852-	3,872	4536RUG	PT	480	220	1,000	1,070	1,800	0.0	38,000	1.014	5,800	0.937	6,030	0.860	26.0	1.859	7.5	0.74	6.7
15 17	08-30-65	4,536R8A	4,536R8A	4536R8A	TB	7,400	1,300	40,000	219	750	0.0	78,000	1.080	130,000	0.276	106,000	0.276	106,000	0.276	106,000	0.276	106,000
15 17	08-30-65	4,536R8A	4,536R8A	4536R8A	TB	7,400	1,300	40,000	219	750	0.0	78,000	1.080	130,000	0.276	106,000	0.276	106,000	0.276	106,000	0.276	106,000
22 17	08-32-66	4,536R8A	4,536R8A	4536R8A	WH	2,000	600	84,000	341	4,200	0.0	130,000	1.135	220,000	0.43	184,000	0.43	184,000	0.43	184,000	0.43	184,000
22 17	08-32-66	4,536R8A	4,536R8A	4536R8A	WH	2,000	600	84,000	341	4,200	0.0	130,000	1.135	220,000	0.43	184,000	0.43	184,000	0.43	184,000	0.43	184,000
18 17	01-16-63	4,536R8A	4,536R8A	4536R8A	WH	3,500	2,300	59,000	585	1,700	0.0	130,000	1.154	200,000	0.223	162,000	0.223	162,000	0.223	162,000	0.223	162,000
18 17	01-16-63	4,536R8A	4,536R8A	4536R8A	WH	3,500	2,300	59,000	585	1,700	0.0	130,000	1.154	200,000	0.223	162,000	0.223	162,000	0.223	162,000	0.223	162,000
26 17	01-26-63	4,200-	4,200	4536R8A	DT	1,400	1,100	8,000	338	1,600	0.0	44,000	1.025	32,000	0.418	36,700	0.418	36,700	0.418	36,700	0.418	36,700
26 17	01-26-63	4,200-	4,200	4536R8A	DT	1,400	1,100	8,000	338	1,600	0.0	44,000	1.025	32,000	0.418	36,700	0.418	36,700	0.418	36,700	0.418	36,700
28 17	08-11-37	4,542-	4,542	4536R8A	DT	10,000	1,300	19,000	282	1,500	0.0	67,000	1.058	77,000	1.116	113,000	1.116	113,000	1.116	113,000	1.116	113,000
28 17	08-11-37	4,542-	4,542	4536R8A	DT	10,000	1,300	19,000	282	1,500	0.0	67,000	1.058	77,000	1.116	113,000	1.116	113,000	1.116	113,000	1.116	113,000
29 17	10-12-59	4,097-	4,097	4536R8A	ST	14,000	9,500	34,000	625	2,300	0.0	110,000	1.137	170,000	1.001	149,000	1.001	149,000	1.001	149,000	1.001	149,000
29 17	10-12-59	4,097-	4,097	4536R8A	ST	14,000	9,500	34,000	625	2,300	0.0	110,000	1.137	170,000	1.001	149,000	1.001	149,000	1.001	149,000	1.001	149,000
32 17	01-05-61	4,436-	4,436	4536R8A	DT	2,900	810	77,000	370	3,100	0.0	120,000	1.140	130,000	1.172	137,000	1.172	137,000	1.172	137,000	1.172	137,000
32 17	01-05-61	4,436-	4,436	4536R8A	DT	2,900	810	77,000	370	3,100	0.0	120,000	1.140	130,000	1.172	137,000	1.172	137,000	1.172	137,000	1.172	137,000
32 17	01-05-61	4,436-	4,436	4536R8A	DT	2,900	810	77,000	370	3,100	0.0	120,000	1.140	130,000	1.172	137,000	1.172	137,000	1.172	137,000	1.172	137,000
12 18	08-01-52	4,536R8A	4,536R8A	4536R8A	TB	6,200	3,600	18,000	61	1,400	0.0	78,000	1.032	230,000	0.172	132,000	0.172	132,000	0.172	132,000	0.172	132,000
12 18	08-01-52	4,536R8A	4,536R8A	4536R8A	TB	6,200	3,600	18,000	61	1,400	0.0	78,000	1.032	230,000	0.172	132,000	0.172	132,000	0.172	132,000	0.172	132,000
12 18	08-01-52	4,536R8A	4,536R8A	4536R8A	TB	6,200	3,600	18,000	61	1,400	0.0	78,000	1.032	230,000	0.172	132,000	0.172	132,000	0.172	132,000	0.172	132,000
12 18	08-01-52	4,536R8A	4,536R8A	4536R8A	TB	6,200	3,600	18,000	61	1,400	0.0	78,000	1.032	230,000	0.172	132,000	0.172	132,000	0.172	132,000	0.172	132,000
25 18	01-26-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
25 18	01-26-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
25 18	01-26-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
25 18	01-26-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
28 18	10-01-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
28 18	10-01-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
28 18	10-01-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
28 18	10-01-59	4,536R8A	4,536R8A	4536R8A	WH	1,900	290	2,900	1,300	2,100	0.0	181,000	1.013	18,000	0.783	57,800	0.783	57,800	0.783	57,800	0.783	57,800
29 18	01-27-50	4,288-	4,247	4536R8A	TB	1,300	340	5,900	315	3,500	0.0	8,200	1.011	19,000	0.216	23,500	0.216	23,500	0.216	23,500	0.216	23,500
29 18	01-27-50	4,288-	4,247	4536R8A	TB	1,300	340	5,900	315	3,500	0.0	8,200	1.011	19,000	0.216	23,500	0.216	23,500	0.216	23,500	0.216	23,500
30 18	05-22-52	4,536R8A	4,536R8A	4536R8A	TB	2,500	700	4,400	58	2,300	0.0	6,700	1.011	17,400	1.453	20,500	1.453	20,500	1.453	20,500	1.453	20,500
30 18	05-22-52	4,536R8A	4,536R8A	4536R8A	TB	2,500	700	4,400	58	2,300	0.0	6,700	1.011	17,400	1.453	20,500	1.453	20,500	1.453	20,500	1.453	20,500
34 18	04-23-56	4,536R8A	4,536R8A	4536R8A	PT	1,100	54	8,000	2,240	330	0.0	11,000	1.010	16,000	1.223	22,200	1.223	22,200	1.223	22,200	1.223	22,200
34 18	04-23-56	4,536R8A	4,536R8A	4536R8A	PT	1,100	54	8,000	2,240	330	0.0	11,000	1.010	16,000	1.223	22,200	1.223	22,200	1.223	22,200	1.223	2

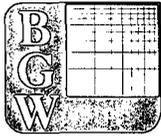
TABLE 4A. --WATER-QUALITY DATA FOR EDDY AND LEA COUNTIES, NEW MEXICO, ARRANGED BY BOTH FORMATION SOURCE AND GEOGRAPHIC LOCATION.

LOCATION T. R.	DATE OF COLLECTION	DEPTH FROM TO	SAMP- LING METHOD	SILICA (SiO2)	IRON (PPM)	CALCIUM (MG/L)	MAGNESIUM (MG/L)	POTASSIUM (MG/L)	SULFATE (MG/L)	CHLORIDE (MG/L)	FLUORIDE (MG/L)	NIT- RATE (MG/L)	DENSITY WATER AT 20C (G/ML)	LEA COUNTY		LEA COUNTY		LEA COUNTY	
														CONDUCT- ANCE (UMHOS AT 25C)	RESIS- TIVITY (OHM-CM AT 18C)	CONDUCT- ANCE (UMHOS AT 18C)	RESIS- TIVITY (OHM-CM AT 18C)	CONDUCT- ANCE (UMHOS AT 25C)	RESIS- TIVITY (OHM-CM AT 18C)
10 25	01-26-21	4,128-4,134	4530LWR	58		24,000	3,300	65,000	112	150,000		1.174	250,000	521	190,000	.064	12.0	.053	6.0
15 25	01-08-60	4,694-4,620	4530LWR	DT	50	4,000	1,720	120,000	1,800	190,000		1.195	220,000	.045	184,000	.038	25.0	.054	7.0
16 25	01-27-61	4,658-4,679	4530LWR	DT	50	3,600	600	120,000	1,700	190,000		1.193	220,000	.045	184,000	.038	25.0	.054	7.0
16 25	01-00-64	4,700-4,740	4530LWR		MD	19,000	3,200	63,000	460	140,000		1.155	220,000	.433	200,000	.050	6.3	.050	6.3
17 25	01-10-60	4,732-4,740	4530LWR		MD	26,000	1,700	78,000	370	170,000	0.0	1.169	260,000	.432	200,000	.053	6.3	.053	6.3
22 25	01-00-60	4,810-4,830	4530LWR		MD	29,000	3,200	78,000	370	170,000	0.0	1.169	260,000	.432	200,000	.053	6.3	.053	6.3
22 25	01-13-62	4,660-4,660	4530LWR		MD	29,000	3,500	73,000	1,000	130,000	0.0	1.140	220,000	.534	195,000	.043	24.0	.051	5.5
26 26	04-03-64		4530LWR		MD	27,000	5,400	62,000	85	160,000	0.0	1.170	260,000	.612	178,000	.046	27.0	.056	5.9
35 26	04-03-64		4530LWR		HV	32,000	5,600	62,000	310	160,000	0.0	1.168	260,000	.673	190,000	.053	6.6	.053	6.6
10 26	04-03-64		4530LWR		HV	32,000	5,900	62,000	210	180,000	0.0	1.202	290,000	.668	196,000	.051	6.4	.051	6.4
31 26	02-29-59	3,884-3,872	4530LWR		HV	28,000	6,200	62,000	250	160,000	0.0	1.174	260,000	.689	190,000	.053	6.5	.053	6.5
32 19	06-27-63	3,721-3,801	4530RNG		TR	480	220	1,000	1,800	38,000		1.044	5,800	.937	6,030	.860	26.0	1.859	7.5
15 17	03-30-65		4530RSA		TR	7,400	1,300	40,000	750	78,000		1.080	130,000	.276	135,000	.074	6.7	.074	6.7
22 17	04-02-64		4530RSA		TR	2,000	690	84,000	4,200	130,000		1.135	220,000	.043	189,000	.058	7.8	.053	7.8
22 17	01-18-64	3,400-4,260	4530RSA		TR	3,600	2,000	64,000	4,000	110,000		1.115	160,000	.124	168,000	.060	6.9	.060	6.9
18 17	01-10-63		4530RSA		MD	1,300	6,200	59,000	1,700	130,000	0.0	1.154	200,000	.223	162,000	.046	26.0	.062	5.0
19 17	04-26-63	4,200-	4530RSA		MD	1,400	1,100	8,600	338	13,000	0.0	1.025	32,000	.418	36,700	.220	24.0	.273	6.7
28 17	06-00-00	4,542-4,595	4530RSA		MD	2,000	4,100	27,000	1,200	44,000	0.0	1.058	77,000	1.116	89,000	.101	19.0	.112	7.7
28 17	08-11-37	3,852-3,852	4530RSA		MD	10,000	7,300	19,000	1,500	67,000	0.0	1.074	105,000	1.365	113,000	.088		.088	
29 17	10-12-59	4,097-4,680	4530RSA		TR	14,000	9,500	34,000	2,300	110,000		1.137	170,000	1.001	149,000	.067	6.0	.067	6.0
37 17	04-05-61	4,436-4,729	4530RSA		TR	2,900	810	77,000	3,100	120,000	0.0	1.140	130,000	1.02	137,000	.073	6.5	.073	6.5
37 17	08-01-60	4,600-5,100	4530RSA		TR	5,200	3,000	16,000	1,800	47,000	0.0	1.132	230,000	.176	192,000	.042	30.0	.052	5.0
12 18	01-01-58	4,352-4,352	4530RSA		TR	3,200	2,900	16,000	2,100	27,000	0.0	1.036	46,000	1.08	57,800	.173	6.5	.173	6.5
13 18	04-01-57		4530RSA		TR	1,900	2,900	5,000	1,000	27,000	0.0	1.013	18,000	1.08	18,000	.400	27.0	.400	27.0
25 18	08-19-59	3,970-4,206	4530RSA		TR	1,900	250	2,500	2,400	5,300	0.0	1.005	14,100	.761	16,903	.591	7.0	.591	7.0
28 18	10-01-59		4530RSA		TR	550	340	5,500	3,600	4,500	0.0	1.011	19,000	.268	23,500	.426	6.2	.426	6.2
29 18	01-02-59		4530RSA		TR	1,300	300	4,400	3,500	8,200	0.0	1.015	17,400	.484	20,500	.497	7.6	.497	7.6
30 18	05-22-52	3,852-4,208	4530RSA		TR	250	75	8,000	2,800	19,000	0.0	1.011	17,400	.484	20,500	.497	7.6	.497	7.6
34 18	07-13-55	3,862-4,005	4530RSA		TR	1,110	58	4,200	58	11,800	0.0	1.001	16,000	1.232	22,200	.451	7.1	.451	7.1
17 19	01-31-62	3,895-4,005	4530RSA		TR	1,300	1,300	3,000	1,300	3,700	0.0	1.001	16,000	1.232	22,200	.451	7.1	.451	7.1
17 19	04-06-58		4530RSA		TR	3,000	510	2,600	1,800	2,700	0.0	1.015	18,000	1.540	20,800	.895	20.0	.895	20.0
32 19	01-28-47	3,763-3,914	4530RSA		TR	400	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62	3,760-3,910	4530RSA		TR	410	200	2,700	1,240	2,700	0.0	1.001	5,540	1.420	7,910	.726	8.5	.726	8.5
33 19	04-25-62																		





# TRANSMITTAL



**BALLEAU GROUNDWATER, INC.**  
901 Rio Grande Blvd. NW, Suite F-242  
Albuquerque, New Mexico 87104  
(505) 247-2000

**To** Mr. William C. Olson  
State of New Mexico, Oil Conservation Div.  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

**Date** December 31, 2001

**From** Ross Wolford

**Subject** CARLSBAD/WELLFIELD

The following items are attached  as requested.  as we discussed.  
 for your use.  for review/comment.

**Item**

**No. Copies**

**Description**

<b>No.</b>	<b>Copies</b>	<b>Description</b>
1	1	Figure 1 - City of Carlsbad MW-3 Locality Map

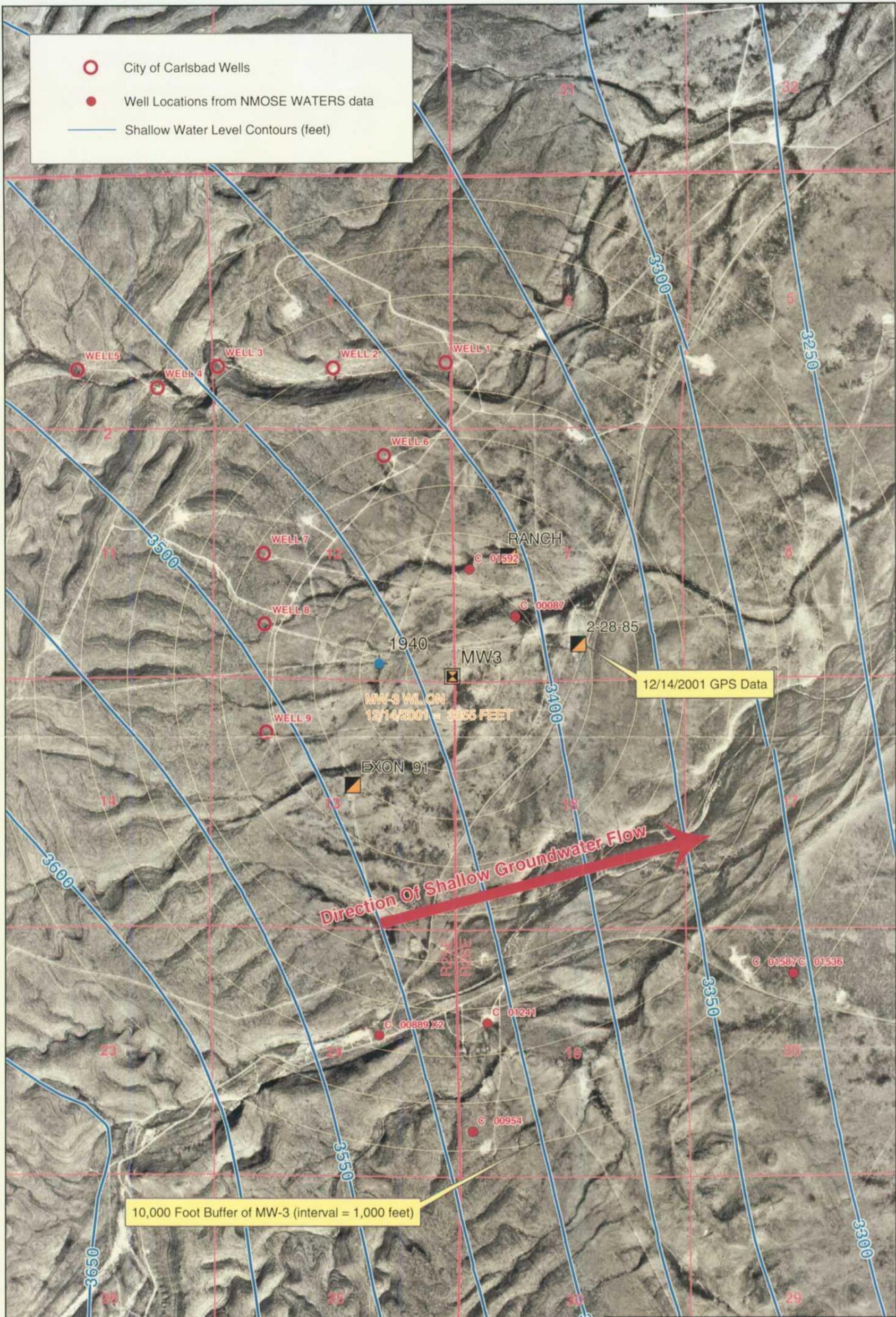
**Remarks**

Signed Ross Wolford

**Copied to:** Mr. J. Tully  with attachments  without attachments

Please notify us if attachments are not as noted.  
Facsimile (505) 843-7036

- City of Carlsbad Wells
- Well Locations from NMOSE WATERS data
- Shallow Water Level Contours (feet)



12/14/2001 GPS Data

MW-3 WL ON 12/14/2001 = 3355 FEET

10,000 Foot Buffer of MW-3 (interval = 1,000 feet)

**Direction Of Shallow Groundwater Flow**

0 1,000 2,000 3,000 Feet

1:24,000

MAP PROJECTION: UTM ZONE 13N, NAD83

CARLSBAD / WELLFIELD PLANNING

CITY OF CARLSBAD MW-3 LOCALITY MAP

DATE: 12/26/2001  
 PRODUCED BY: SES  
 CHECKED BY: RW  
 FILE NAME: LOCALITY.MXD

FIGURE 1



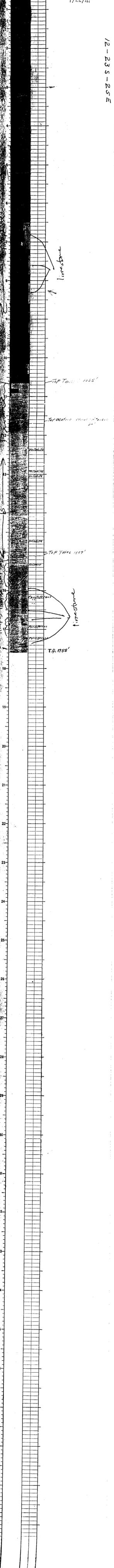
RECEIVED

JAN 07 2002

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

Eddy County, New Mexico  
 AREA Wildcat  
 OPERATOR Turney & De Vito  
 LEASE & No. De Vito No. 1  
 LOCATION 1650 E and 330S  
 Sec 12; T23S; R25E  
 ELEV. 3446 T.D. 1758

FORM NO. 395 - In stock and for sale by Mid-West Print. Co., Tulsa

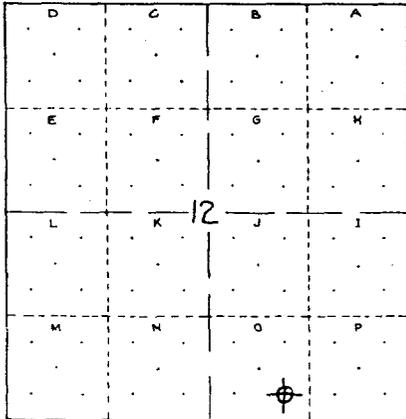


T. 23 S., R. 25 E., Sec. 12  
330 fr SL ; 1650 fr EL Unit 0

SAMPLE LOG 0 TO 1755 PLOTTED

OPERATOR TURNER, FRED

LEASE DeVito (Federal) WELL NO. 1  
Spud Comp. T. D.  
Tools Cable  
I. P. ABANDONED After



Producing Zone:

DRILL STEM TESTS

DATE	FROM TO	OPEN	RESULTS

CASING RECORD

SIZE	DEPTH	CEMENT

Shows: HF Sol WTR (Castile) 840  
WTR 1450-59 (Lamar)  
" 1640-47 (Del sd)

ELEVATION BY L-S 3446

GEOLOGICAL RECORD

FORMATION	DEPTH	DATUM	INFO.	FORMATION	DEPTH	DATUM	INFO.
Top Rustler				Top Pennsylvanian (Cisco)			
Base Rustler Lime				Top Canyon			
Top Salt	None		SL	Top Strawn			
Base Salt	"		SL	Top Bond (Atoka)			
Top Tansil				Top Mississippian (Chester)			
Top Yates				Top Miss. Lime			
Base 2nd Yates Sand				Top Devonian (Woodford)			
Top Seven Rivers (Capitan)				Top Devonian Lime			
Base Anhydrite				Top Silurian (Fusselman)			
Top Queen				Top Ordovician (Montoya)			
Top Penrose				Top Simpson			
Top Grayburg				Top Ellenburger			
Top San Andreas				Top Cambrian (Bliss)			
Top Glorietta				Top Pre-Cambrian			
Top Yeso							
Top Drinkard Zone				INTV'L. T.A. — B.R.L.			
Top Fullerton Zone				B.R.L. — B.S.			
Top Abo				T.A. — B.S. (Salado)			
Top Wolfcamp (Hueco)				B.S. — T.T. (Fletcher)			
Top Bursum				T.T. — T.Y. (Tansil)			
DELAWARE BASIN				T.Y. — T.S.R.L. (Yates)			
Top Lamar	1078	+2368	SL	B.S. — B.A. (Gradational)			
Top Del. Sand	1528	+1918	SL	B.S. — T.D.L. (Castile)			
Top Bone Springs				T.D.L. — T.D.S. (Lamar)		450	SL
				T.D.S. — T.B.S.L. (Delaware)			
				T.D.L. - Fluids (WTR)			562 SL-op

NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES  
WELL LOG CARD

LOCATION 1650 EL  
330 SL

SEC 12 T23S R25E

ELEVATION SOURCE

3446 J.W. SKINNER

STRATIGRAPHIC POINT

SO 1533, SW 765-40

840-45, 880, 1465-58

HFSW. 1642-47 400'

SAL WITH 14 MTS. 1200'

WTH. 1758

FORMATION

DEPTH

THICKNESS

TOTAL DEPTH

1 BBL. OIL

P M CU. FT. GAS

COMMENCED

COMPLETED

PAY HORIZON

COMP. IN

OTHER OWNERSHIP

REMARKS: SR 10-9-40

LAND CLASS.	FEDERAL STATE PAID.	X
-------------	---------------------	---

EDDY

COUNTY

LOG. NO.

SEC. 12 T. 23S R. 25E

TURNER & DEVITO

WELL NO. 1

CO.

DEPTH	ELEV.
5'	
1758'	

CASING RECORD
10" 45'
7" 1533

12-11-40-SR

Sand

Sheep Draw Well Field, Eddy County, New Mexico  
Bryan G. Arrant-PES  
New Mexico Oil Conservation Division-District II  
May 5<sup>th</sup>, 2002

The Sheep Draw Well Field, located in southeastern Eddy County, New Mexico lies approximately 12 miles southwest of the City of Carlsbad. Located in this area are 9 city water wells, which serve the City Carlsbad residents and surrounding areas. A number of monitor wells have been drilled around the 9 water wells in order to insure that the quality and quantity of these water wells be protected. Water sample test that were recently conducted with one of the monitor wells has indicated a relatively high concentration of chlorides and traces H<sub>2</sub>S gas by the City of Carlsbad. In addition, the New Mexico Oil Conservation Division has also conducted water sample tests from this monitor well in order to more accurately determine what type and values of contamination are found.

Located in Eddy County, New Mexico in the northeastern corner of Township 23 South and Range 25 East, the Sheep Draw well Field lies on both Federal and State lands with oil and gas activity in and surrounding the area. The site of the Sheep Draw Well Field lies geologically where the Permian Basin Reef complex and the Delaware Basin prograde into each other. All of the city water wells are found to be geologically on the eastern fringe of the Guadalupe Ridge, which is part of the massive Permian Reef complex. (Please refer to the '**Guadalupe Stratigraphy Insert**'). The monitor well that has been found to be contaminated however is located just off the massive reef complex and is actually located out in the Delaware Basin.

**Figure 1** shows how the lithologic record of rocks were laid down during what is called the Leonardian and Guadalupian series during Permian time, part of the geological time scale. This rock strata, in part, is well exposed as the Permian Reef southwest of Carlsbad in the Guadalupe Mountains. The City of Carlsbad water wells, located on the eastern edge of the Guadalupe Mountains, were drilled to an average depth of @ 650'. Which lies in the upper Capitan in the Tansill and Yates formations, which is about mid Permian time in geological age.

An abstract, **Exhibit 1**, written by a number of geologists for Amoco Production Company and Southern Methodist University describes from wells drilled in this area how each bore-hole and its location ties in with the Permian Reef complex and the Delaware Basin. Of the bore holes listed in the cross section, the Devito #1 shows to be out in the Delaware basin penetrating salts of the Delaware formation. Note that the Devito well is approximately 1600 feet west of the monitor well in question, which would lie further out in the basin. The Devito well, which was drilled back in the late 40's, rock cuttings indicate that anhydrites common in the Delaware Basin are found in this well bore.

**Figure 2** is a stratigraphic cross-section that transverses the area that includes the Devito No. 1 well. Beginning in Section 11 of Township 23 South, Range 25 East, the Exxon Mary Federal No. 5 well bore hole logs indicates carbonate reef lithologically, of the Permian Reef to a depth of 1620' where the oil and gas operator set their 1<sup>st</sup> string of casing. This was to insure the protection of fresh water of the reef. The 4<sup>th</sup> well on this cross section shows the Devito well. Note on the strip log where the geologist noted anhydrite rock to a depth of 1065'. This again being an evaporite is indicative of the type of rock that is commonly found in the Salado formation of the Delaware. The strip log that was drawn up in 1947 erroneously marks the depth of 1065' as the Tansill formation, which is incorrect. The last well on the cross section in Section 5 of Township 23 South, Range 26 East is furthest to the east and shows rock records to be also of Delaware type origin as one would expect. The operator of this well ran a caliper in the log shown indicating where the salt formations occur in the Salado formation.

The monitor well in question is found geologically to be just off the Permian Reef Complex and on the western fringes of the Delaware Basin. This well penetrated the surface alluvium at a depth of approximately 119' and lies directly above the upper Salado formation. Therefore, lithologically there is no direct correlation with the monitor well in question and wells drilled in the Capitan limestone in the Reef to the west.

# FIGURE 3



3001525700000  
EXXON CORPORATION  
MARY FEDERAL 5  
023 08 025 0E 011  
TD 10731.0 H  
G  
3860 0 H KB



3001525060000  
EXXON CORPORATION  
MARY FEDERAL 3-Y  
023 08 025 0E 011  
TD 5105.0 H  
D&A  
3739 0 H KB



3001520990000  
HANAGAN PET CORP  
SQUAW 1  
023 08 025 0E 012  
TD 11460.0 H  
G  
3540 0 H KB



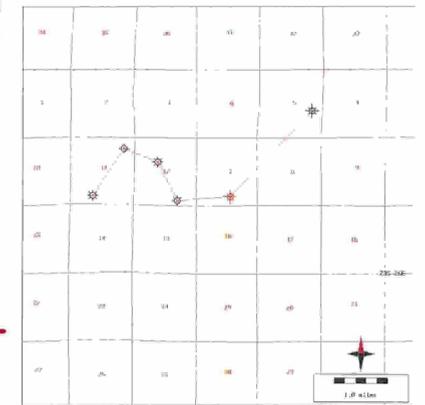
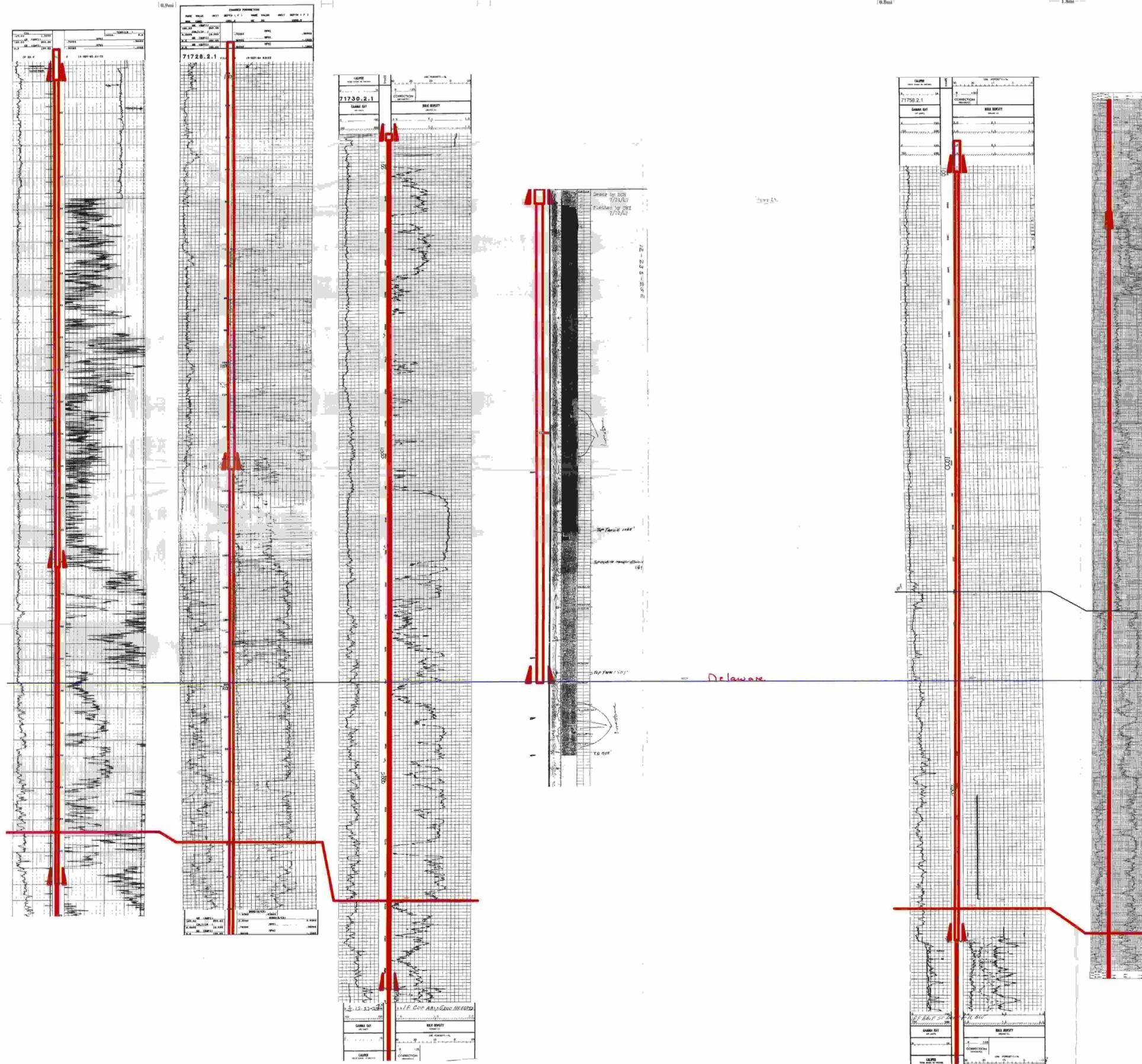
3001500120000  
TURNER-DEVITO  
DEVITO 1  
023 08 025 0E 012  
TD 1758.0 H  
D&A-G  
3446 0 H KB



3001514770000  
HANAGAN PET CORP  
NEWMAN COM 1  
023 08 026 0E 007  
TD 11626.0 H  
AG  
3454 0 H KB



3001525570000  
CITIES SERV OIL CO  
FEDERAL INC DM 1  
023 08 026 0E 005  
TD 11750.0 H  
AG  
3345 0 H KB



STRATIGRAPHIC SECTION SHEEP DRAW AREA DATUM TOP DELAWARE

<b>Parameter</b>	<b>Carlsbad City Samples (12/20/01)</b>	<b>OCD Samples Trace Analysis (3/5/02)</b>	<b>OCD Samples Pinnacle Labs (3/5/02)</b>
Benzene	0.005	0.02	ND
Toluene	0.005	ND	0.015
Ethylbenzene	ND	ND	0.0039
Xylene	ND	ND	0.0084
Chloride	123,000	117,000	120,000
Sulfate	NA	29,300	25,000
Total Dissolved Solids	NA	271,000	224,000

ND - not detected

NA - not analyzed

**Table 1 – Ground Water Quality in MW-3 (mg/l)**

# TABLE 2 - Delaware Formation Water Quality (W.L. Hiss - 1975)

SEC.	LOCATION	DATE OF COLLECTION	DEPTH FROM TD	SAMP-ING METHOD	SILICA (SI02)	IRON (FE)	CALCIUM (CA)	MAGNESIUM (MG)	SODIUM + POTASSIUM (NG/L)	BICARBONATE (NG/L)	SULFATE (SO4) (MG/L)	HYDROGEN SULFIDE (MG/L)	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	DENSITY OF WATER (G/ML) AT 20C	DISSOLVED SOLIDS (PPT)	(CA+MG)/ (NA+K)	SPECIFIC CONDUCTANCE (UMH/CM) AT 25C	SPECIFIC CONDUCTANCE (UMH/CM) AT 18C	RESISTIVITY (OHM-CM) AT 25C	RESISTIVITY (OHM-CM) AT 18C	CAL CI (UMH/CM) AT 25C	CAL CI (UMH/CM) AT 18C
24	21	01-01-65	3,300-4,998	453CPRF	UH	0.0	870	400	2,900	317	2,700	310	5,000	1.010	13,000	606	15,000	1,420	16.0				
24	21	01-08-65	3,300-4,998	453CPRF	UH	0.0	860	330	2,900	317	2,700	320	5,000	1.010	13,000	588	15,000	1,900					
24	21	01-09-65	3,300-4,998	453CPRF	UH	0.0	850	400	2,900	366	2,600	300	5,000	1.010	12,000	605	15,000	1,800					
24	21	01-10-65	3,300-4,998	453CPRF	UH	0.0	840	400	2,900	317	2,800	320	5,000	1.010	12,000	666	14,000	1,800					
24	21	01-11-65	3,300-4,998	453CPRF	UH	0.0	870	390	2,600	244	2,400	470	4,900	1.010	12,000	605	14,800	1,800					
5	22	03-00-62	3,409-4,998	453CPRF	5B		860	400	16,000		2,700	390	5,000	1.014	12,000								
5	22	03-20-62	3,784-4,998	453CPRF	5B				11,000		2,700		25,000	1.014									
12	22	03-20-62	4,155-4,663	453CPRF	PG	4.0	730	250	1,800	1,040	1,500	880	2,900	1.014	7,800	455	9,060	1,420	16.0				
14	22	04-30-64	4,160-4,663	453CPRF	WH	0.0	520	230	1,700	956	1,200	880	2,900	1.007	7,800	872	7,130						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	500	240	1,700	956	1,200	100	2,900	1.007	7,800	872	7,130						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
14	22	04-26-65	4,160-4,663	453CPRF	WH	0.0	420	230	1,300	958	1,500	100	2,900	1.007	7,700	883	7,700						
28	23	11-14-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-07-71	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	24,000	2.0	6,500	1,080	9,130	50,300					
28	23	10-21-66	3,325-4,700	453CPRF	DT		1,500	1,300	11,000	488	2,000	200	2										

# TABLE 2 - Delaware Formation Water Quality - continued (W.L. Hiss - 1975)

C. I. R.	LOCATION	DATE OF COLLECTION	DEPTH FROM TO	FORMATION	SAMP. METHOD	SILICA (SiO2) (PPM)	IRON (PPM)	CALCIUM (PPM)	MAGNESIUM (PPM)	SODIUM + POTASSIUM AS NA (PPM)	BICARBONATE (PPM)	SULFATE (PPM)	HYDROGEN SULFIDE (PPM)	CHLORIDE (PPM)	FLUORIDE (PPM)	DENSITY OF WATER AT 20C (G/ML)	DISSOLVED SOLIDS (MG/L)	CA+MG (PPM)	SPECIFIC CONDUCTIVITY (UMHOS AT 25C)	SPECIFIC CONDUCTIVITY (UMHOS AT 18C)	RESISTIVITY (OHM-CM AT 18C)	TDS (PPM)	
																							10
10	25	32	01-26-51	4,728-4,734	4530LWR	58		24,000	3,300	45,000	112	740	0.0	150,000	1.74	1.174	250,000	521	190,000	0.64	0.64	12.0	0.53
15	25	32	07-08-50	4,694-4,620	4530LWR	DT	50	4,000	3,770	120,000		1,400		190,000	1.95	1.195	250,000	652	190,000	0.38	0.38	25.0	0.53
16	25	32	07-08-50	4,694-4,620	4530LWR	DT	50	3,600	600	120,000		1,100		190,000	1.95	1.195	250,000	652	190,000	0.38	0.38	25.0	0.54
17	25	32	07-08-50	4,694-4,620	4530LWR	DT	50	3,600	600	120,000		1,100		190,000	1.95	1.195	250,000	652	190,000	0.38	0.38	25.0	0.54
18	25	32	00-00-64	4,709-4,709	4530LWR			19,000	3,200	63,000	139	460		140,000	1.55	1.155	220,000	433	184,000				0.54
19	25	32	00-00-64	4,709-4,709	4530LWR			26,000	3,200	63,000	139	460		140,000	1.55	1.155	220,000	433	184,000				0.54
20	25	32	11-10-60	4,732-4,740	4530LWR	58	MD	28,000	3,300	66,000	64	910	0.0	170,000	1.64	1.164	240,000	475	188,000				0.53
21	25	32	00-00-62	5,541-5,554	4530LWR			28,000	3,300	73,000	260	1,200	0.0	170,000	1.62	1.162	240,000	475	188,000				0.53
22	25	32	00-00-62	5,541-5,554	4530LWR			28,000	3,300	73,000	260	1,200	0.0	170,000	1.62	1.162	240,000	475	188,000				0.53
23	25	32	00-00-62	5,541-5,554	4530LWR			28,000	3,300	73,000	260	1,200	0.0	170,000	1.62	1.162	240,000	475	188,000				0.53
24	25	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
25	26	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
26	26	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
27	26	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
28	26	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
29	26	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
30	26	32	04-03-64	4,680-4,680	4530LWR	DT	MD	31,000	5,400	85,000	188	2,800	0.0	300,000	1.60	1.160	220,000	553	190,000	0.43	0.43	24.0	0.51
31	26	32	02-28-59	3,869-3,872	4536BGS	DT	HV	28,000	6,200	47,000	61	250		180,000	1.18	1.118	260,000	668	190,000				0.51
32	26	32	02-28-59	3,869-3,872	4536BGS	DT	HV	28,000	6,200	47,000	61	250		180,000	1.18	1.118	260,000	668	190,000				0.51
33	26	32	02-28-59	3,869-3,872	4536BGS	DT	HV	28,000	6,200	47,000	61	250		180,000	1.18	1.118	260,000	668	190,000				0.51
34	26	32	06-21-63	3,721-3,801	4536BGS	DT	TR	480	220	1,000	1,070	1,800		38,000	1.04	1.014	5,800	937	6,030	0.86	0.86	26.0	1.65
35	26	32	06-21-63	3,721-3,801	4536BGS	DT	TR	480	220	1,000	1,070	1,800		38,000	1.04	1.014	5,800	937	6,030	0.86	0.86	26.0	1.65
36	26	32	06-21-63	3,721-3,801	4536BGS	DT	TR	480	220	1,000	1,070	1,800		38,000	1.04	1.014	5,800	937	6,030	0.86	0.86	26.0	1.65
37	17	32	03-30-65		4536BGS	TB	140	7,400	1,300	40,000	219	740		79,000	1.056	1.056	130,000	216	135,000				0.74
38	17	32	03-30-65		4536BGS	TB	140	7,400	1,300	40,000	219	740		79,000	1.056	1.056	130,000	216	135,000				0.74
39	17	32	03-30-65		4536BGS	TB	140	7,400	1,300	40,000	219	740		79,000	1.056	1.056	130,000	216	135,000				0.74
40	17	32	03-30-65		4536BGS	TB	140	7,400	1,300	40,000	219	740		79,000	1.056	1.056	130,000	216	135,000				0.74
41	17	32	03-30-65		4536BGS	TB	140	7,400	1,300	40,000	219	740		79,000	1.056	1.056	130,000	216	135,000				0.74
42	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
43	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
44	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
45	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
46	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
47	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
48	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
49	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
50	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
51	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
52	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
53	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
54	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
55	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
56	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
57	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
58	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
59	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188,000	0.68	0.68	23.0	0.63
60	17	32	08-02-66	3,900-4,260	4536BGS	WH	31	2,000	600	84,000	341	6,200		130,000	1.132	1.132	220,000	403	188				

# LATE GUADALUPIAN CORRELATIONS, PERMIAN REEF COMPLEX, WEST TEXAS AND NEW MEXICO

by Willis W. Tyrrell, Jr., *Amoco International Oil Company, Chicago, Illinois*,  
Donald H. Lokke, *Southern Methodist University, Dallas, Texas*,  
George A. Sanderson, *Amoco Production Company, Tulsa, Oklahoma* and  
George J. Verville, *Amoco Production Company, Denver, Colorado*

## Abstract

The Tansill Formation (shelf deposit), upper Capitan Formation (shelf margin deposit), and Lamar Limestone (basinal deposit) are the uppermost carbonate units of the Permian Reef Complex. The Lamar Limestone Member of the Bell Canyon Formation is separated from the overlying Castile Formation by the "post-Lamar beds" consisting of Capitan debris at the margin of the Delaware Basin and a thin sandstone unit further basinward. The generally accepted correlation of the middle and lower Tansill with the Lamar (Tyrrell, 1969) has been questioned by Achauer (1969) and Kelly (1971), who correlate the Lamar with the Seven Rivers Formation. Their correlations contradict the exceptionally fine fusulinid zonation first established by Skinner and Wilde (1954, 1955) for the Lamar.

Fig. 1 shows the location and stratigraphic relationship of two Amoco Research core holes and a section measured along the north wall of Dark Canyon. The Amoco No. 2 Dark Canyon cored 399 ft of the Tansill Formation and the upper 70 ft of the underlying Yates Formation. The Ocotillo Silt Member is present from 86-118 ft. Fusulinid occurrences in this core include (from top to bottom):

Fusulinid	Depth (in ft)
Poorly preserved <i>Paraboultonia</i> (?)	15-80
<i>Reichelina</i>	106-232
<i>Paradoxiella</i>	242-324
<i>Codonofusiella</i>	332-469 (total depth)
<i>Yabeina texana</i>	391 (one bed)

In the Amoco No. 1 Dark Canyon core hole, the upper 220 ft consists mostly of Tansill lithology with a few units of Capitan lithology; the section from 220-290 ft is transitional with alternating Tansill and Capitan lithologies; and the section from 290 ft to total depth (400 ft) is massive Capitan.

*Paraboultonia* is common from 40-394 ft, and no *Reichelina* were found.

The small Tethyan fusulinid genera in the two core holes and in measured sections and well cuttings of Tansill and Lamar between Dark Canyon and McKittrick Canyon confirm: 1) *Paraboultonia* is restricted to the Ocotillo Silt Member and the overlying upper Tansill beds, as well as to the uppermost Capitan, uppermost Lamar and post-Lamar beds; 2) *Reichelina* slightly overlaps the lower part of the *Paraboultonia* zone, but otherwise is restricted to the middle Tansill and to all except the lower Lamar; 3) *Paradoxiella* is present in the middle Tansill and middle and lower Lamar; 4) *Yabeina texana* is restricted to the lowermost Tansill and lowermost Lamar; 5) *Codonofusiella* ranges as high as the lower Tansill and lower Lamar; 6) *Polydiexodina*, the large fusulinid characteristic of the upper Guadalupian in west Texas, does not range as high as the Tansill or Lamar.

## References

- Achauer, C. W., 1969, Origin of the Capitan Formation, Guadalupe Mountains, New Mexico and Texas: *American Association of Petroleum Geologists, Bull.*, v. 53, p. 2314-2323
- Kelley, V. C., 1971, Geology of the Pecos Country, southeastern New Mexico: *New Mexico Bureau of Mines and Mineral Resources, Mem.* 24, 75 p.
- Skinner, J. W., and Wilde, G. L., 1954, The fusulinid subfamily Boultoniinae: *Journal of Paleontology*, v. 28, p. 434-444
- , 1955, New fusulinids from the Permian of west Texas: *Journal of Paleontology*, v. 29, p. 927-940
- Tyrrell, W. W., Jr., 1969, Criteria useful in interpreting environments of unlike but time-equivalent carbonate units (Tansill-Capitan-Lamar), Capitan Reef Complex, west Texas and New Mexico: *Society of Economic Paleontologists and Mineralogists, Spec. Pub.* No. 14, p. 8-97

Appendix  
A

## ABSTRACT-EXHIBIT 1

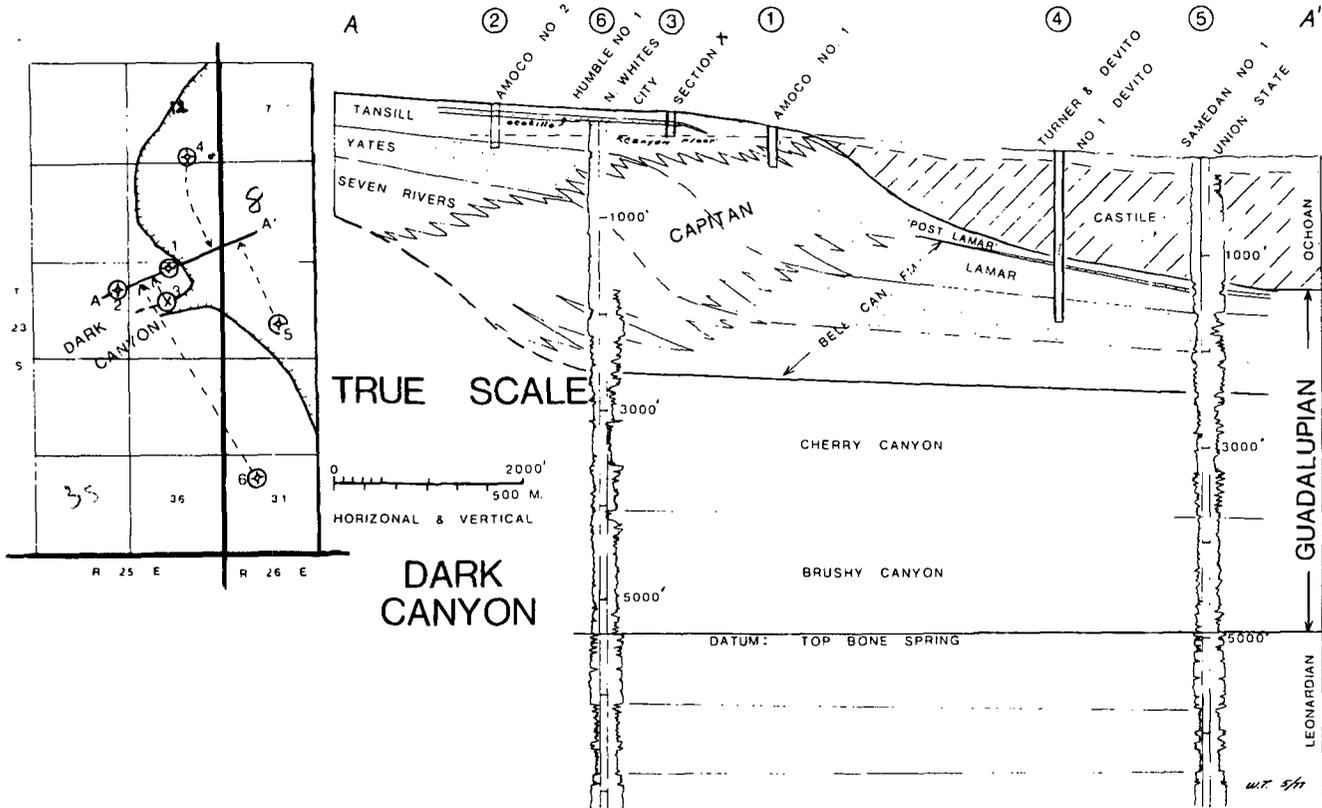


FIGURE 1—TRUE-SCALE STRATIGRAPHIC SECTION SHOWING RELATIONSHIPS OF AMOCO CORE HOLES TO NEARBY WELL CONTROL IN DARK CANYON, GUADALUPE MOUNTAINS, EDDY COUNTY, NEW MEXICO.

# FIGURE 1

# LATE GUADALUPIAN CORRELATIONS, PERMIAN REEF COMPLEX, WEST TEXAS AND NEW MEXICO

by Willis W. Tyrrell, Jr., *Amoco International Oil Company, Chicago, Illinois*,  
Donald H. Lokke, *Southern Methodist University, Dallas, Texas*,  
George A. Sanderson, *Amoco Production Company, Tulsa, Oklahoma* and  
George J. Verville, *Amoco Production Company, Denver, Colorado*

## Abstract

The Tansill Formation (shelf deposit), upper Capitan Formation (shelf margin deposit), and Lamar Limestone (basinal deposit) are the uppermost carbonate units of the Permian Reef Complex. The Lamar Limestone Member of the Bell Canyon Formation is separated from the overlying Castile Formation by the "post-Lamar beds" consisting of Capitan debris at the margin of the Delaware Basin and a thin sandstone unit further basinward. The generally accepted correlation of the middle and lower Tansill with the Lamar (Tyrrell, 1969) has been questioned by Achauer (1969) and Kelly (1971), who correlate the Lamar with the Seven Rivers Formation. Their correlations contradict the exceptionally fine fusulinid zonation first established by Skinner and Wilde (1954, 1955) for the Lamar.

Fig. 1 shows the location and stratigraphic relationship of two Amoco Research core holes and a section measured along the north wall of Dark Canyon. The Amoco No. 2 Dark Canyon cored 399 ft of the Tansill Formation and the upper 70 ft of the underlying Yates Formation. The Ocotillo Silt Member is present from 86-118 ft. Fusulinid occurrences in this core include (from top to bottom):

Fusulinid	Depth (in ft)
Poorly preserved <i>Paraboultonia</i> (?)	15-80
<i>Reichelina</i>	106-232
<i>Paradoxiella</i>	242-324
<i>Codonofusiella</i>	332-469 (total depth)
<i>Yabeina texana</i>	391 (one bed)

In the Amoco No. 1 Dark Canyon core hole, the upper 220 ft consists mostly of Tansill lithology with a few units of Capitan lithology; the section from 220-290 ft is transitional with alternating Tansill and Capitan lithologies; and the section from 290 ft to total depth (400 ft) is massive Capitan.

*Paraboultonia* is common from 40-394 ft, and no *Reichelina* were found.

The small Tethyan fusulinid genera in the two core holes and in measured sections and well cuttings of Tansill and Lamar between Dark Canyon and McKittrick Canyon reconfirm: 1) *Paraboultonia* is restricted to the Ocotillo Silt Member and the overlying upper Tansill beds, as well as to the uppermost Capitan, uppermost Lamar and post-Lamar beds; 2) *Reichelina* slightly overlaps the lower part of the *Paraboultonia* zone, but otherwise is restricted to the middle Tansill and to all except the lower Lamar; 3) *Paradoxiella* is present in the middle Tansill and middle and lower Lamar; 4) *Yabeina texana* is restricted to the lowermost Tansill and lowermost Lamar; 5) *Codonofusiella* ranges as high as the lower Tansill and lower Lamar; 6) *Polydiexodina*, the large fusulinid characteristic of the upper Guadalupian in west Texas, does not range as high as the Tansill or Lamar.

## References

- Achauer, C. W., 1969, Origin of the Capitan Formation, Guadalupe Mountains, New Mexico and Texas: American Association of Petroleum Geologists, Bull., v. 53, p. 2314-2323
- Kelley, V. C., 1971, Geology of the Pecos Country, southeastern New Mexico: New Mexico Bureau of Mines and Mineral Resources, Mem. 24, 75 p.
- Skinner, J. W., and Wilde, G. L., 1954, The fusulinid subfamily Boultoniinae: *Journal of Paleontology*, v. 28, p. 434-444
- , 1955, New fusulinids from the Permian of west Texas: *Journal of Paleontology*, v. 29, p. 927-940
- Tyrrell, W. W., Jr., 1969, Criteria useful in interpreting environments of unlike but time-equivalent carbonate units (Tansill-Capitan-Lamar), Capitan Reef Complex, west Texas and New Mexico: Society of Economic Paleontologists and Mineralogists, Spec. Pub. No. 14, p. 8-97

Appendix  
A

(five abstracts follow)

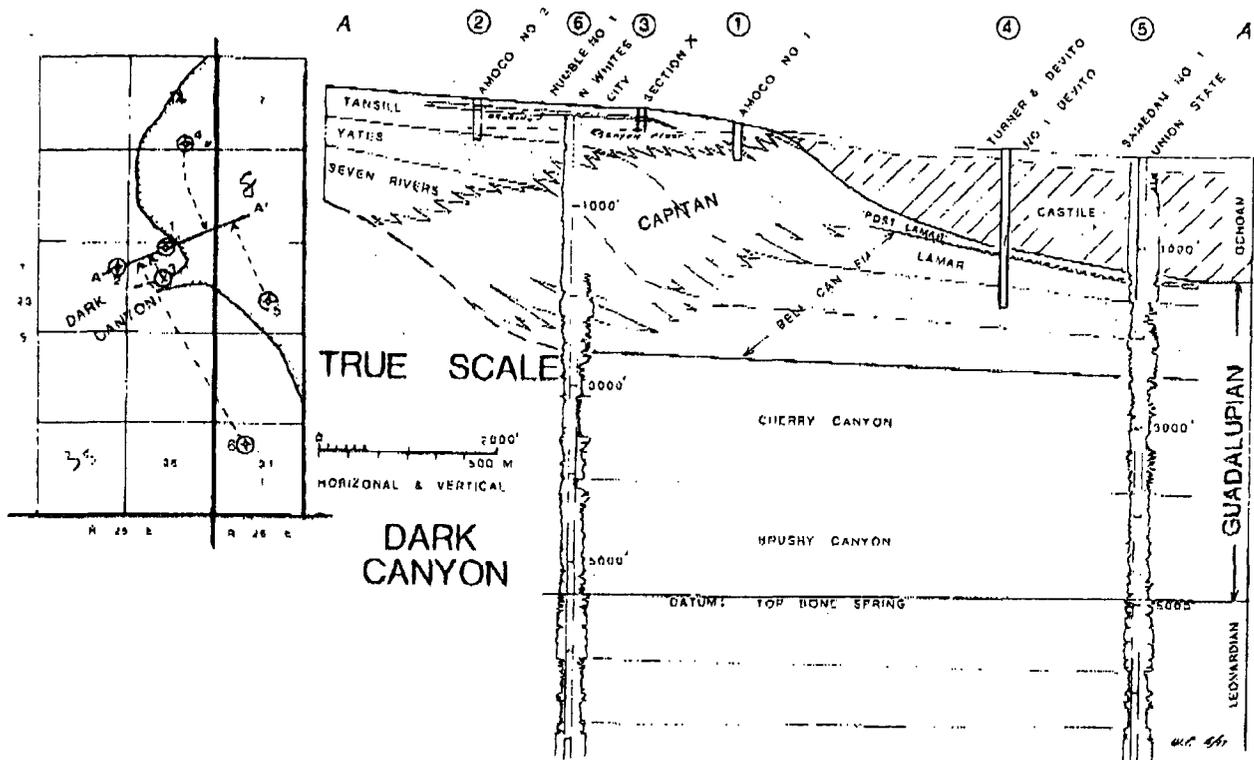


FIGURE 1—TRUE-SCALE STRATIGRAPHIC SECTION SHOWING RELATIONSHIPS OF AMOCO CORE HOLES TO NEARBY WELL CONTROL IN DARK CANYON, GUADALUPE MOUNTAINS, EDDY COUNTY, NEW MEXICO.

# LATE GUADALUPIAN CORRELATIONS, PERMIAN REEF COMPLEX, WEST TEXAS AND NEW MEXICO

by Willis W. Tyrrell, Jr., *Amoco International Oil Company, Chicago, Illinois*,  
Donald H. Lokke, *Southern Methodist University, Dallas, Texas*,  
George A. Sanderson, *Amoco Production Company, Tulsa, Oklahoma* and  
George J. Verville, *Amoco Production Company, Denver, Colorado*

## Abstract

The Tansill Formation (shelf deposit), upper Capitan Formation (shelf margin deposit), and Lamar Limestone (basinal deposit) are the uppermost carbonate units of the Permian Reef Complex. The Lamar Limestone Member of the Bell Canyon Formation is separated from the overlying Castile Formation by the "post-Lamar beds" consisting of Capitan debris at the margin of the Delaware Basin and a thin sandstone unit further basinward. The generally accepted correlation of the middle and lower Tansill with the Lamar (Tyrrell, 1969) has been questioned by Achauer (1969) and Kelly (1971), who correlate the Lamar with the Seven Rivers Formation. Their correlations contradict the exceptionally fine fusulinid zonation first established by Skinner and Wilde (1954, 1955) for the Lamar.

Fig. 1 shows the location and stratigraphic relationship of two Amoco Research core holes and a section measured along the north wall of Dark Canyon. The Amoco No. 2 Dark Canyon cored 399 ft of the Tansill Formation and the upper 70 ft of the underlying Yates Formation. The Ocotillo Silt Member is present from 86-118 ft. Fusulinid occurrences in this core include (from top to bottom):

Fusulinid	Depth (in ft)
Poorly preserved <i>Paraboultonia</i> (?)	15-80
<i>Reichelina</i>	106-232
<i>Paradoxiella</i>	242-324
<i>Codonofusiella</i>	332-469 (total depth)
<i>Yabeina texana</i>	391 (one bed)

In the Amoco No. 1 Dark Canyon core hole, the upper 220 ft consists mostly of Tansill lithology with a few units of Capitan lithology; the section from 220-290 ft is transitional with alternating Tansill and Capitan lithologies; and the section from 290 ft to total depth (400 ft) is massive Capitan.

*Paraboultonia* is common from 40-394 ft, and no *Reichelina* were found.

The small Tethyan fusulinid genera in the two core holes and in measured sections and well cuttings of Tansill and Lamar between Dark Canyon and McKittrick Canyon reconfirm: 1) *Paraboultonia* is restricted to the Ocotillo Silt Member and the overlying upper Tansill beds, as well as to the uppermost Capitan, uppermost Lamar and post-Lamar beds; 2) *Reichelina* slightly overlaps the lower part of the *Paraboultonia* zone, but otherwise is restricted to the middle Tansill and to all except the lower Lamar; 3) *Paradoxiella* is present in the middle Tansill and middle and lower Lamar; 4) *Yabeina texana* is restricted to the lowermost Tansill and lowermost Lamar; 5) *Codonofusiella* ranges as high as the lower Tansill and lower Lamar; 6) *Polydiexodina*, the large fusulinid characteristic of the upper Guadalupian in west Texas, does not range as high as the Tansill or Lamar.

## References

- Achauer, C. W., 1969, Origin of the Capitan Formation, Guadalupe Mountains, New Mexico and Texas: American Association of Petroleum Geologists, Bull., v. 53, p. 2314-2323
- Kelley, V. C., 1971, Geology of the Pecos Country, southeastern New Mexico: New Mexico Bureau of Mines and Mineral Resources, Mem. 24, 75 p.
- Skinner, J. W., and Wilde, G. L., 1954, The fusulinid subfamily Boultoniinae: Journal of Paleontology, v. 28, p. 434-444
- , 1955, New fusulinids from the Permian of west Texas: Journal of Paleontology, v. 29, p. 927-940
- Tyrrell, W. W., Jr., 1969, Criteria useful in interpreting environments of unlike but time-equivalent carbonate units (Tansill-Capitan-Lamar), Capitan Reef Complex, west Texas and New Mexico: Society of Economic Paleontologists and Mineralogists, Spec. Pub. No. 14, p. 8-97

(five abstracts follow)

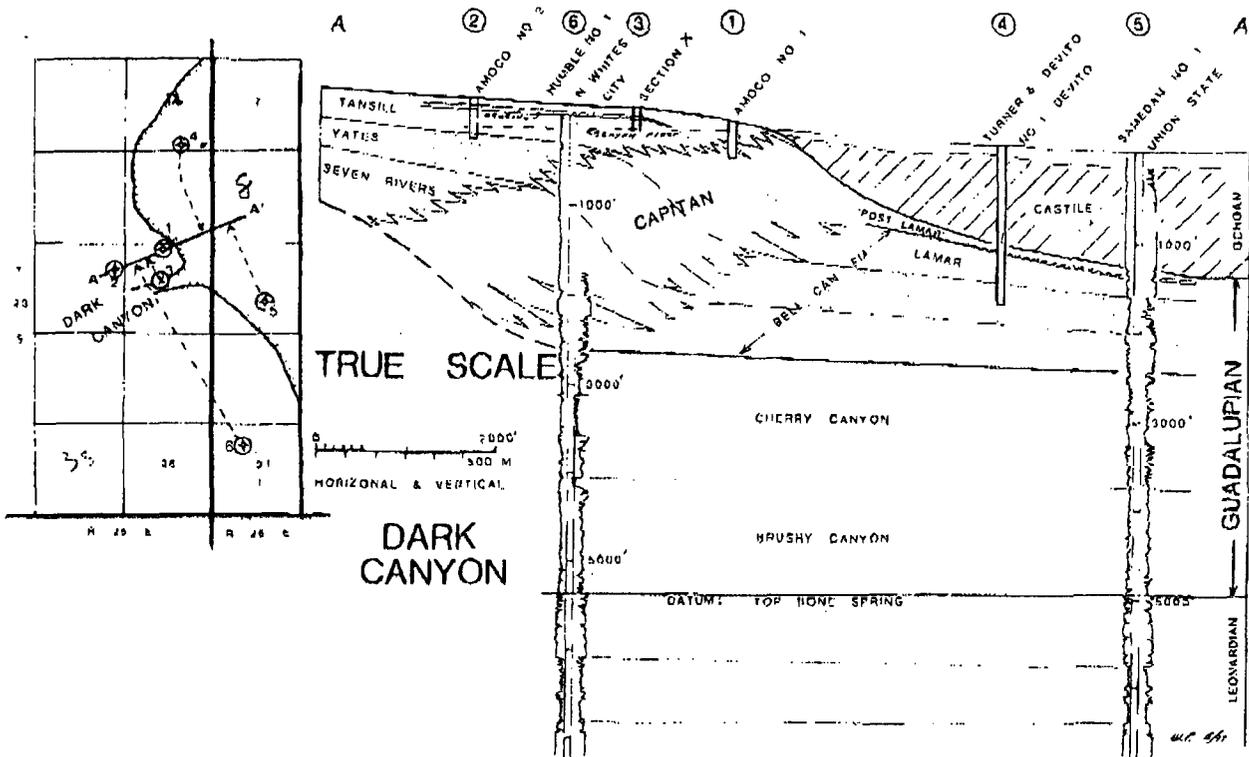


FIGURE 1—TRUE-SCALE STRATIGRAPHIC SECTION SHOWING RELATIONSHIPS OF AMOCO CORE HOLES TO NEARBY WELL CONTROL IN DARK CANYON, GUADALUPE MOUNTAINS, EDDY COUNTY, NEW MEXICO.

# LATE GUADALUPIAN CORRELATIONS, PERMIAN REEF COMPLEX, WEST TEXAS AND NEW MEXICO

by Willis W. Tyrrell, Jr., *Amoco International Oil Company, Chicago, Illinois*,  
Donald H. Lokke, *Southern Methodist University, Dallas, Texas*,  
George A. Sanderson, *Amoco Production Company, Tulsa, Oklahoma* and  
George J. Verville, *Amoco Production Company, Denver, Colorado*

## Abstract

The Tansill Formation (shelf deposit), upper Capitan Formation (shelf margin deposit), and Lamar Limestone (basinal deposit) are the uppermost carbonate units of the Permian Reef Complex. The Lamar Limestone Member of the Bell Canyon Formation is separated from the overlying Castile Formation by the "post-Lamar beds" consisting of Capitan debris at the margin of the Delaware Basin and a thin sandstone unit further basinward. The generally accepted correlation of the middle and lower Tansill with the Lamar (Tyrrell, 1969) has been questioned by Achauer (1969) and Kelly (1971), who correlate the Lamar with the Seven Rivers Formation. Their correlations contradict the exceptionally fine fusulinid zonation first established by Skinner and Wilde (1954, 1955) for the Lamar.

Fig. 1 shows the location and stratigraphic relationship of two Amoco Research core holes and a section measured along the north wall of Dark Canyon. The Amoco No. 2 Dark Canyon cored 399 ft of the Tansill Formation and the upper 70 ft of the underlying Yates Formation. The Ocotillo Silt Member is present from 86-118 ft. Fusulinid occurrences in this core include (from top to bottom):

Fusulinid	Depth (in ft)
Poorly preserved <i>Paraboultonia</i> (?)	15-80
<i>Reichelina</i>	106-232
<i>Paradoxiella</i>	242-324
<i>Codonofusiella</i>	332-469 (total depth)
<i>Yabeina texana</i>	391 (one bed)

In the Amoco No. 1 Dark Canyon core hole, the upper 220 ft consists mostly of Tansill lithology with a few units of Capitan lithology; the section from 220-290 ft is transitional with alternating Tansill and Capitan lithologies; and the section from 290 ft to total depth (400 ft) is massive Capitan.

*Paraboultonia* is common from 40-394 ft, and no *Reichelina* were found.

The small Tethyan fusulinid genera in the two core holes and in measured sections and well cuttings of Tansill and Lamar between Dark Canyon and McKittrick Canyon reconfirm: 1) *Paraboultonia* is restricted to the Ocotillo Silt Member and the overlying upper Tansill beds, as well as to the uppermost Capitan, uppermost Lamar and post-Lamar beds; 2) *Reichelina* slightly overlaps the lower part of the *Paraboultonia* zone, but otherwise is restricted to the middle Tansill and to all except the lower Lamar; 3) *Paradoxiella* is present in the middle Tansill and middle and lower Lamar; 4) *Yabeina texana* is restricted to the lowermost Tansill and lowermost Lamar; 5) *Codonofusiella* ranges as high as the lower Tansill and lower Lamar; 6) *Polydixodina*, the large fusulinid characteristic of the upper Guadalupian in west Texas, does not range as high as the Tansill or Lamar.

## References

- Achauer, C. W., 1969, Origin of the Capitan Formation, Guadalupe Mountains, New Mexico and Texas: American Association of Petroleum Geologists, Bull., v. 53, p. 2314-2323
- Kelley, V. C., 1971, Geology of the Pecos Country, southeastern New Mexico: New Mexico Bureau of Mines and Mineral Resources, Mem. 24, 75 p.
- Skinner, J. W., and Wilde, G. L., 1954, The fusulinid subfamily Boultoniinae: Journal of Paleontology, v. 28, p. 434-444
- , 1955, New fusulinids from the Permian of west Texas: Journal of Paleontology, v. 29, p. 927-940
- Tyrrell, W. W., Jr., 1969, Criteria useful in interpreting environments of unlike but time-equivalent carbonate units (Tansill-Capitan-Lamar), Capitan Reef Complex, west Texas and New Mexico: Society of Economic Paleontologists and Mineralogists, Spec. Pub. No. 14, p. 8-97

(five abstracts follow)

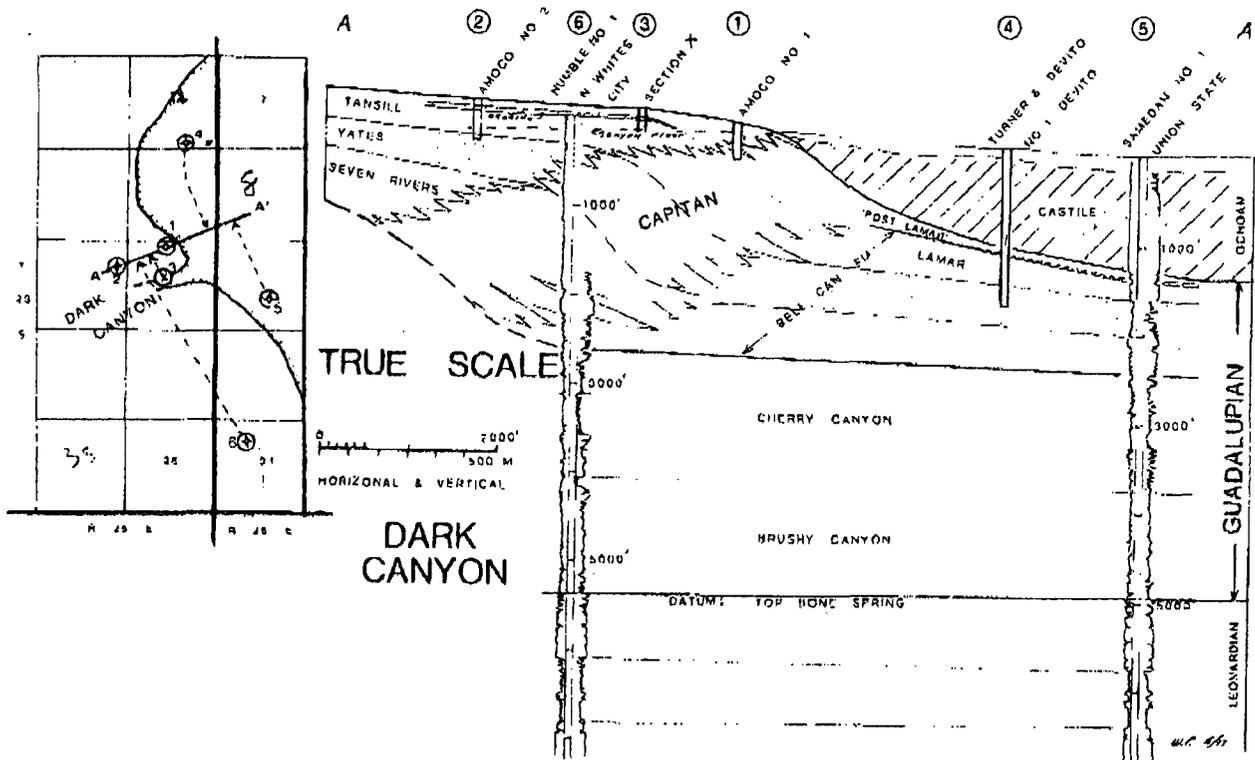


FIGURE 1—TRUE-SCALE STRATIGRAPHIC SECTION SHOWING RELATIONSHIPS OF AMOCO CORE HOLES TO NEARBY WELL CONTROL IN DARK CANYON, GUADALUPE MOUNTAINS, EDDY COUNTY, NEW MEXICO.

*New Mexico Office of the State Engineer*  
**Point of Diversion Summary**

---

Back

(quarters are 1=NW 2=NE 3=SW 4=SE)  
 (quarters are biggest to smallest)

POD Number	Tws	Rng	Sec	q	q	q	Zone	X	Y
C 02878	23S	25E	12	4	4	4			

**Driller Licence:** 1472 HYDROGEOLOGIC SERVICES, INC.

**Driller Name:** WHALEY, BILL W.

**Source:** Shallow

**Drill Start Date:** 10/21/2001

**Drill Finish Date:** 10/22/2001

**Log File Date:** 07/01/2002

**PCW Received Date:**

**Pump Type:**

**Pipe Discharge Size:**

**Casing Size:** 7

**Estimated Yield:**

**Depth Well:** 320

**Depth Water:** 90

Water Bearing Stratifications:	Top	Bottom	Description
	90	110	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	102	110

*Appendix*  
*DB*

*New Mexico Office of the State Engineer*  
**Water Right Summary**

---

Back

DB File Nbr: C 02878  
 Primary Purpose: STK 72-12-1 LIVESTOCK WATERING  
 Primary Status: PMT Permit  
 Total Acres:  
 Total Diversion: 3  
 Owner: CITY OF CARLSBAD

Contact: LUIS CAMERO

Documents on File

Doc	File/Act	Status	1	2	3	Trans Desc	From/To	Acres	Diversion	Co
<u>72121</u>	<u>12/17/2001</u>	PMT	LOG	PRC	C	02878	T		3	

(qtr are 1=NW 2=NE 3=SW 4=SE)

Point of Diversion	(qtr are biggest to smallest)	Source	Tws	Rng	Sec	q	q	q	X Y are in Feet	Zone	X	Y	UTM a	UTM_Z
POD Number		Shallow	23S	25E	12	4	4	4						13
<u>C 02878</u>														

---

New Mexico Office of the State Engineer  
Well Reports and Downloads

Township:  Range:  Sections:

NAD27 X:  Y:  Zone:  Search Radius:

County:  Basin:  Number:  Suffix:

Owner Name: (First)  (Last)   Non-Domestic  Domestic  
 All

AVERAGE DEPTH OF WATER REPORT 08/29/2002

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
C	23S	25E	12				1	90	90	90

Record Count: 1

**New Mexico Office of the State Engineer  
Transaction Summary**

---

Back

72121 All Applications Under Statute 72-12-1

Trn\_nbr: 220692

Trn\_desc: C 02878

File Date: 12/17/2001

Primary status: PMT Permit  
 Secondary status: LOG Well Log Received  
 Person assigned: \*\*\*\*\*  
 Applicant: CITY OF CARLSBAD

Contact: LUIS CAMERO

**Events**

Date	Type	Description	Comment
12/17/2001	APP	Application Received	
12/17/2001	FIN	Final Action on application	
12/17/2001	ART	Artesian Approval Letter sent	
07/01/2002	LOG	Well Log Received	

DB File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 02878		3		STK 72-12-1 LIVESTOCK WATERIN

**Point of Diversion**

C 02878 23S 25E 12 SE SE SE in Eddy County

**Remarks**

Well will be used for monitoring the groundwater for the Carlsbad Well Field.

**Conditions**

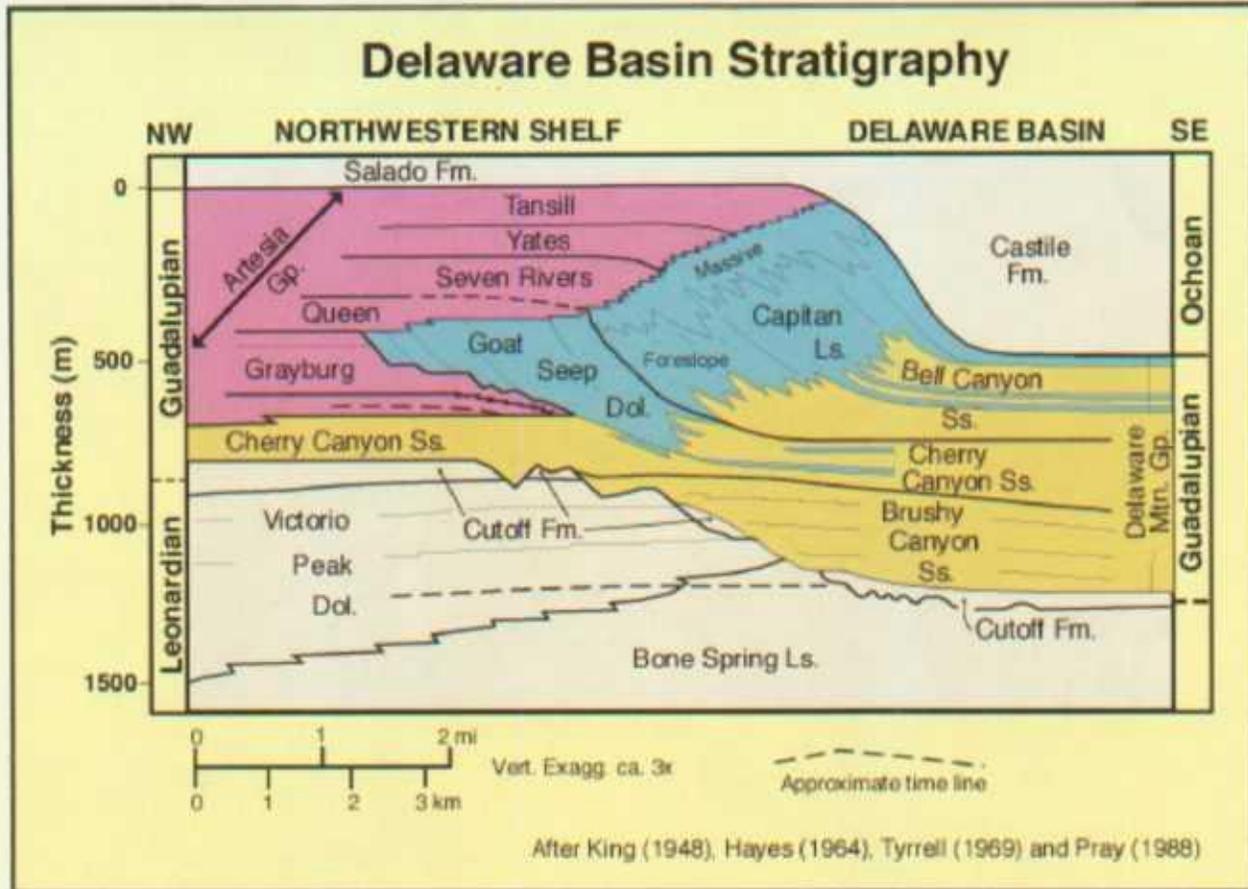
2 : The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.

**Action of the State Engineer**

Approval Code: A Approved  
 Action Date: 12/17/2001  
 Log Due Date: 12/17/2002  
 State Engineer: Thomas C. Turney  
 By:

---

## GUADALUPE STRATIGRAPHY INSERT



Standard stratigraphic nomenclature of the Permian strata exposed in the Guadalupe Mountains. Modified from many sources including King (1948), Hayes (1964), Tyrrell (1969) and Pray (1988a).

[Guadalupe Mtns. geology](#) — [Scholle home page](#) — [NM Bureau staff page](#) — [NM Bureau main page](#)

**FIGURE 2**

# LATE GUADALUPIAN CORRELATIONS, PERMIAN REEF COMPLEX, WEST TEXAS AND NEW MEXICO

by Willis W. Tyrrell, Jr., *Amoco International Oil Company, Chicago, Illinois*,  
Donald H. Lokke, *Southern Methodist University, Dallas, Texas*,  
George A. Sanderson, *Amoco Production Company, Tulsa, Oklahoma* and  
George J. Verville, *Amoco Production Company, Denver, Colorado*

## Abstract

The Tansill Formation (shelf deposit), upper Capitan Formation (shelf margin deposit), and Lamar Limestone (basinal deposit) are the uppermost carbonate units of the Permian Reef Complex. The Lamar Limestone Member of the Bell Canyon Formation is separated from the overlying Castile Formation by the "post-Lamar beds" consisting of Capitan debris at the margin of the Delaware Basin and a thin sandstone unit further basinward. The generally accepted correlation of the middle and lower Tansill with the Lamar (Tyrrell, 1969) has been questioned by Achauer (1969) and Kelly (1971), who correlate the Lamar with the Seven Rivers Formation. Their correlations contradict the exceptionally fine fusulinid zonation first established by Skinner and Wilde (1954, 1955) for the Lamar.

Fig. 1 shows the location and stratigraphic relationship of two Amoco Research core holes and a section measured along the north wall of Dark Canyon. The Amoco No. 2 Dark Canyon cored 399 ft of the Tansill Formation and the upper 70 ft of the underlying Yates Formation. The Ocotillo Silt Member is present from 86-118 ft. Fusulinid occurrences in this core include (from top to bottom):

Fusulinid	Depth (in ft)
Poorly preserved <i>Paraboultonia</i> (?)	15-80
<i>Reichelina</i>	106-232
<i>Paradoxiella</i>	242-324
<i>Codonofusiella</i>	332-469 (total depth)
<i>Yabeina texana</i>	391 (one bed)

In the Amoco No. 1 Dark Canyon core hole, the upper 220 ft consists mostly of Tansill lithology with a few units of Capitan lithology; the section from 220-290 ft is transitional with alternating Tansill and Capitan lithologies; and the section from 290 ft to total depth (400 ft) is massive Capitan.

*Paraboultonia* is common from 40-394 ft, and no *Reichelina* were found.

The small Tethyan fusulinid genera in the two core holes and in measured sections and well cuttings of Tansill and Lamar between Dark Canyon and McKittrick Canyon reconfirm: 1) *Paraboultonia* is restricted to the Ocotillo Silt Member and the overlying upper Tansill beds, as well as to the uppermost Capitan, uppermost Lamar and post-Lamar beds; 2) *Reichelina* slightly overlaps the lower part of the *Paraboultonia* zone, but otherwise is restricted to the middle Tansill and to all except the lower Lamar; 3) *Paradoxiella* is present in the middle Tansill and middle and lower Lamar; 4) *Yabeina texana* is restricted to the lowermost Tansill and lowermost Lamar; 5) *Codonofusiella* ranges as high as the lower Tansill and lower Lamar; 6) *Polydioxodina*, the large fusulinid characteristic of the upper Guadalupian in west Texas, does not range as high as the Tansill or Lamar.

## References

- Achauer, C. W., 1969, Origin of the Capitan Formation, Guadalupe Mountains, New Mexico and Texas: *American Association of Petroleum Geologists, Bull.*, v. 53, p. 2314-2323
- Kelley, V. C., 1971, *Geology of the Pecos Country, southeastern New Mexico*: New Mexico Bureau of Mines and Mineral Resources, Mem. 24, 75 p.
- Skinner, J. W., and Wilde, G. L., 1954, The fusulinid subfamily Boultoniinae: *Journal of Paleontology*, v. 28, p. 434-444
- , 1955, New fusulinids from the Permian of west Texas: *Journal of Paleontology*, v. 29, p. 927-940
- Tyrrell, W. W., Jr., 1969, Criteria useful in interpreting environments of unlike but time-equivalent carbonate units (Tansill-Capitan-Lamar), Capitan Reef Complex, west Texas and New Mexico: *Society of Economic Paleontologists and Mineralogists, Spec. Pub. No. 14*, p. 8-97

(five abstracts follow)

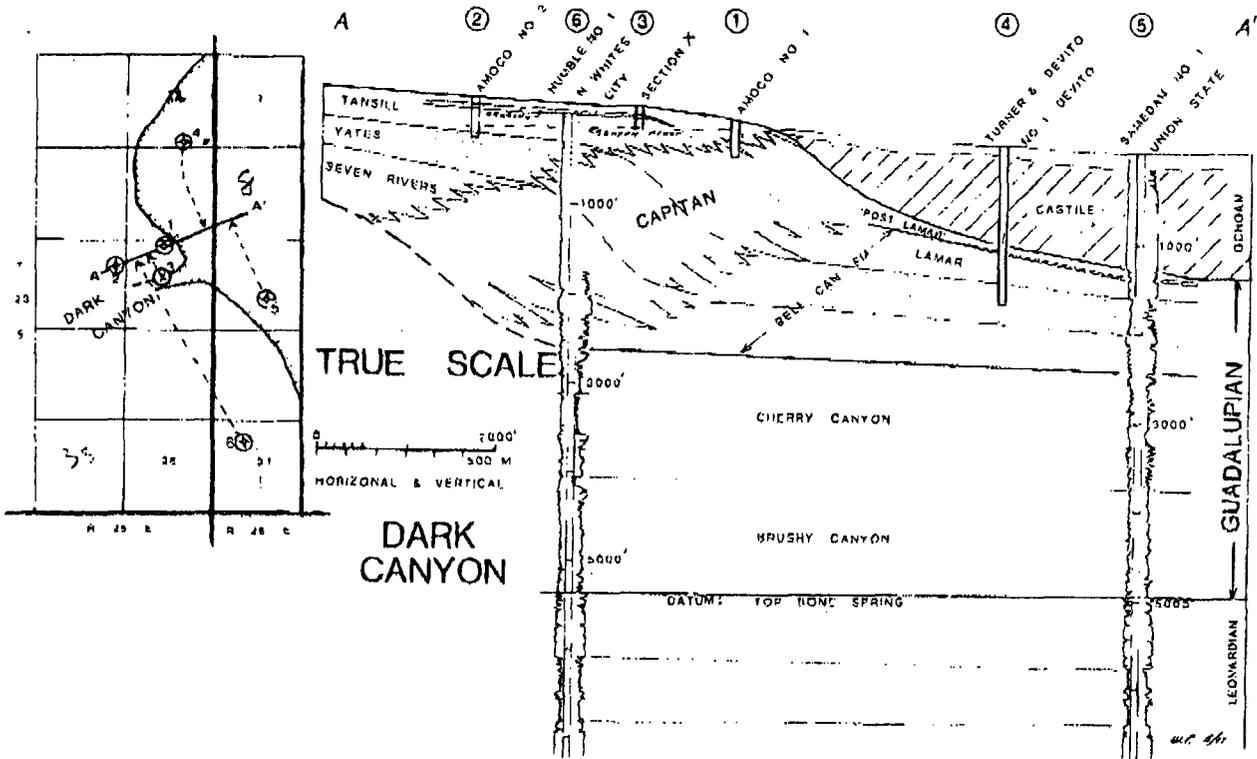


FIGURE 1—TRUE-SCALE STRATIGRAPHIC SECTION SHOWING RELATIONSHIPS OF AMOCO CORE HOLES TO NEARBY WELL CONTROL IN DARK CANYON, GUADALUPE MOUNTAINS, EDDY COUNTY, NEW MEXICO.

Site #3

6" Surface casing +1.5' @ -80'

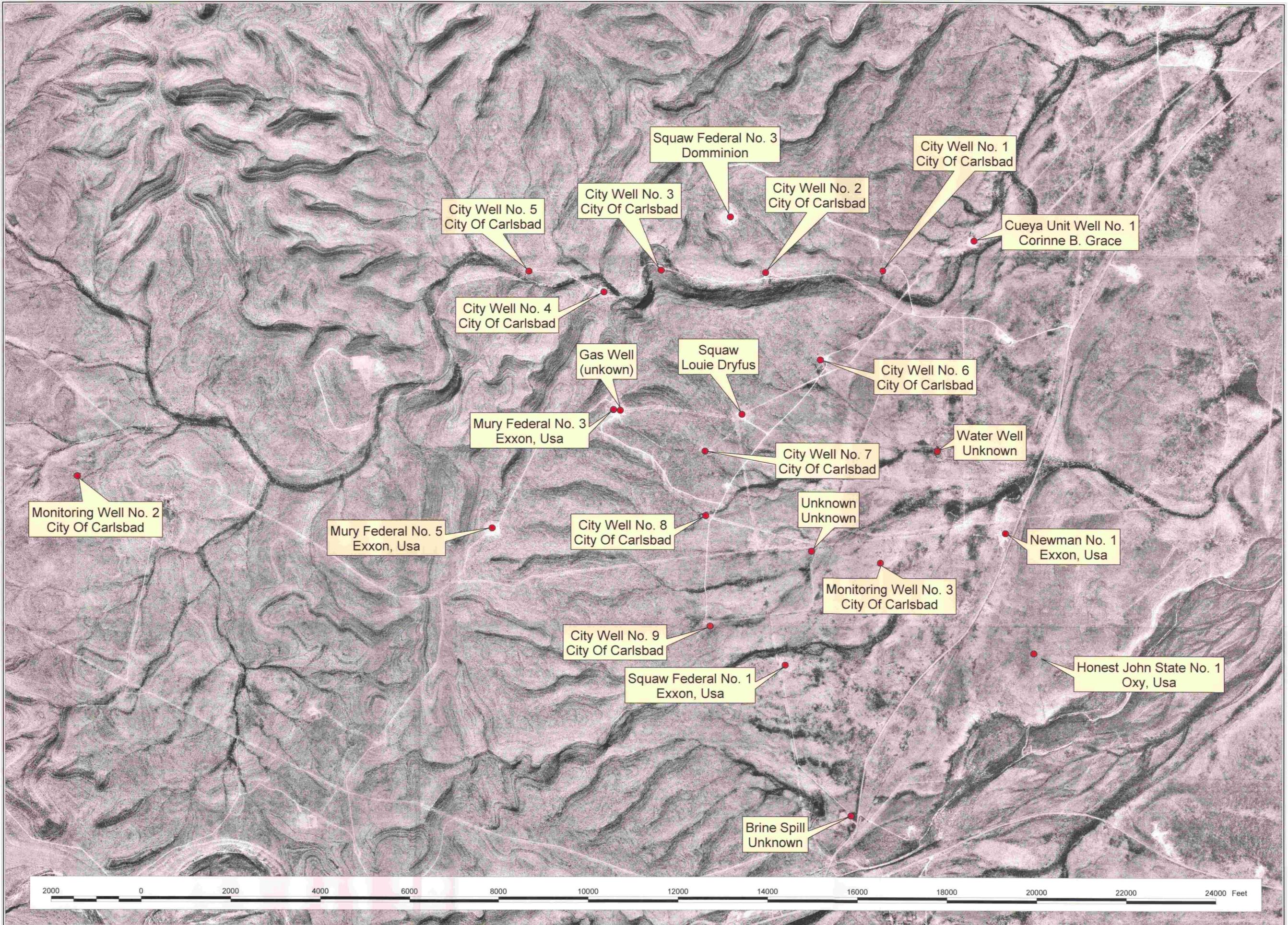
0-1.5' pad  
1.5-3' SM - Sand with Silt, light brown, dry  
3'-8' SC - Sand with Clay, (Caliche) tan-white, dry  
8'-36' CL - Clay, with sand and cobbles, red brown  
Sli - moist - moist  
36'-47' Fractured - weathered Limestone light grey  
47'-~~118~~<sup>92</sup> Consolidated LS light grey - grey  
92-118 Fractured / weathered LS.  
118-<sup>118</sup> brine / dark water  
118-320 Dry Limestone, grey to dark grey  
TD 320

2nd hole hit Perched brine at 98'  
6" Surface casing +1.5' to 120

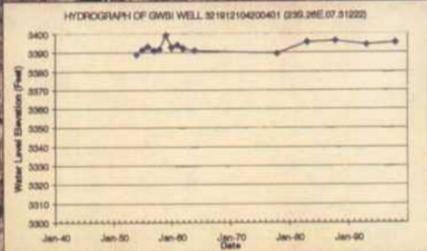
**FIGURE 6**



# SHEEP DRAW WELLFIELD Carlsbad, New Mexico



-  City of Carlsbad Wells
-  Contour Control Points (USGS GWSI and BGW Field Data)
-  Shallow Water Level Contours (feet)



12/14/2001 GPS Data



0 1,000 2,000 3,000 4,000 5,000 Feet

1:24,000  
MAP PROJECTION: UTM ZONE 13N, NAD83

CARLSBAD / WELLFIELD PLANNING

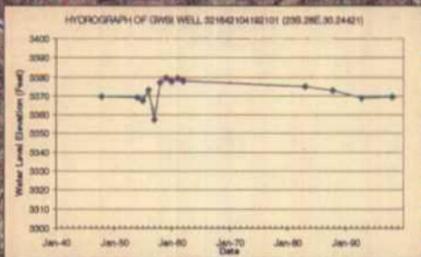
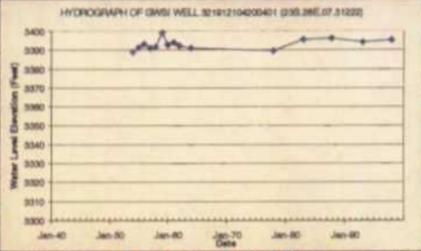
CITY OF CARLSBAD MW-3 LOCALITY MAP

DATE: 12/20/2001  
PRODUCED BY: SES  
CHECKED BY: RW  
FILE NAME: LOCALITY.MXD

FIGURE 1



-  City of Carlsbad Wells
-  Contour Control Points (USGS GWSI and BGW Field Data)
-  Shallow Water Level Contours (feet)



12/14/2001 GPS Data

0 1,000 2,000 3,000 4,000 5,000 Feet

1:24,000

MAP PROJECTION: UTM ZONE 13N, NAD83

CARLSBAD / WELLFIELD PLANNING

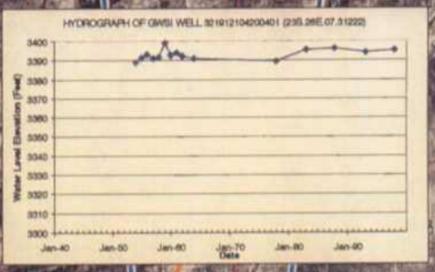
CITY OF CARLSBAD MW-3 LOCALITY MAP

DATE: 12/20/2001  
 PRODUCED BY: SES  
 CHECKED BY: RW  
 FILE NAME: LOCALITY.MXD

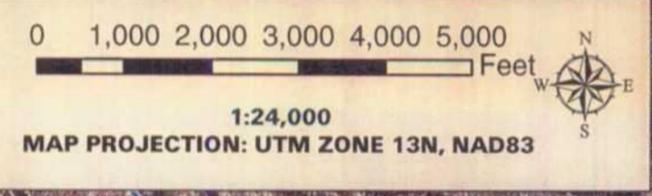
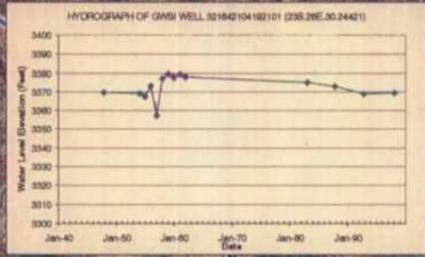
FIGURE 1



-  City of Carlsbad Wells
-  Contour Control Points (USGS GWSI and BGW Field Data)
-  Shallow Water Level Contours (feet)



12/14/2001 GPS Data



CARLSBAD / WELLFIELD PLANNING

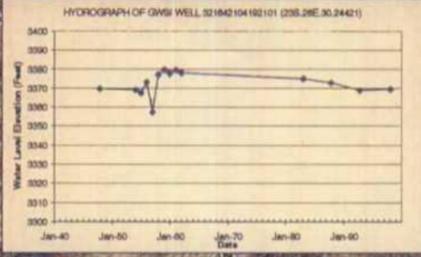
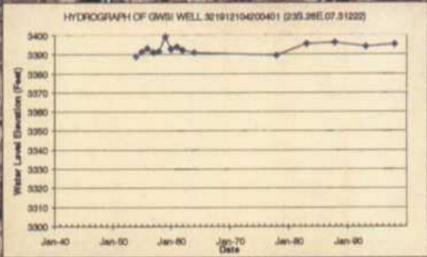
CITY OF CARLSBAD MW-3 LOCALITY MAP

DATE: 12/20/2001  
 PRODUCED BY: SES  
 CHECKED BY: RW  
 FILE NAME: LOCALITY.MXD

FIGURE 1



-  City of Carlsbad Wells
-  Contour Control Points (USGS GWSI and BGW Field Data)
-  Shallow Water Level Contours (feet)



12/14/2001 GPS Data

0 1,000 2,000 3,000 4,000 5,000 Feet

1:24,000

MAP PROJECTION: UTM ZONE 13N, NAD83



CARLSBAD / WELLFIELD PLANNING

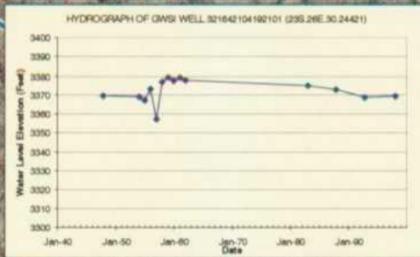
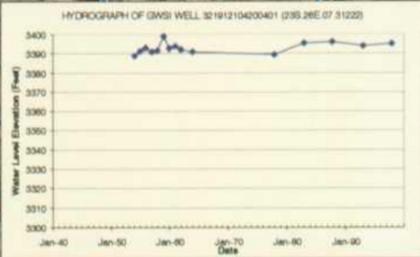
CITY OF CARLSBAD MW-3 LOCALITY MAP

DATE: 12/29/2001  
 PRODUCED BY: SES  
 CHECKED BY: RW  
 FILE NAME: LOCALITY.MXD

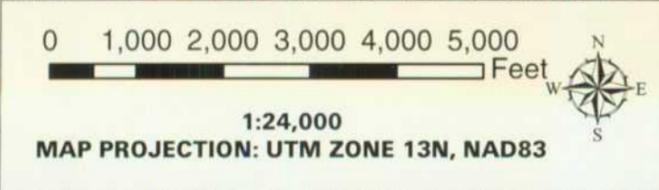
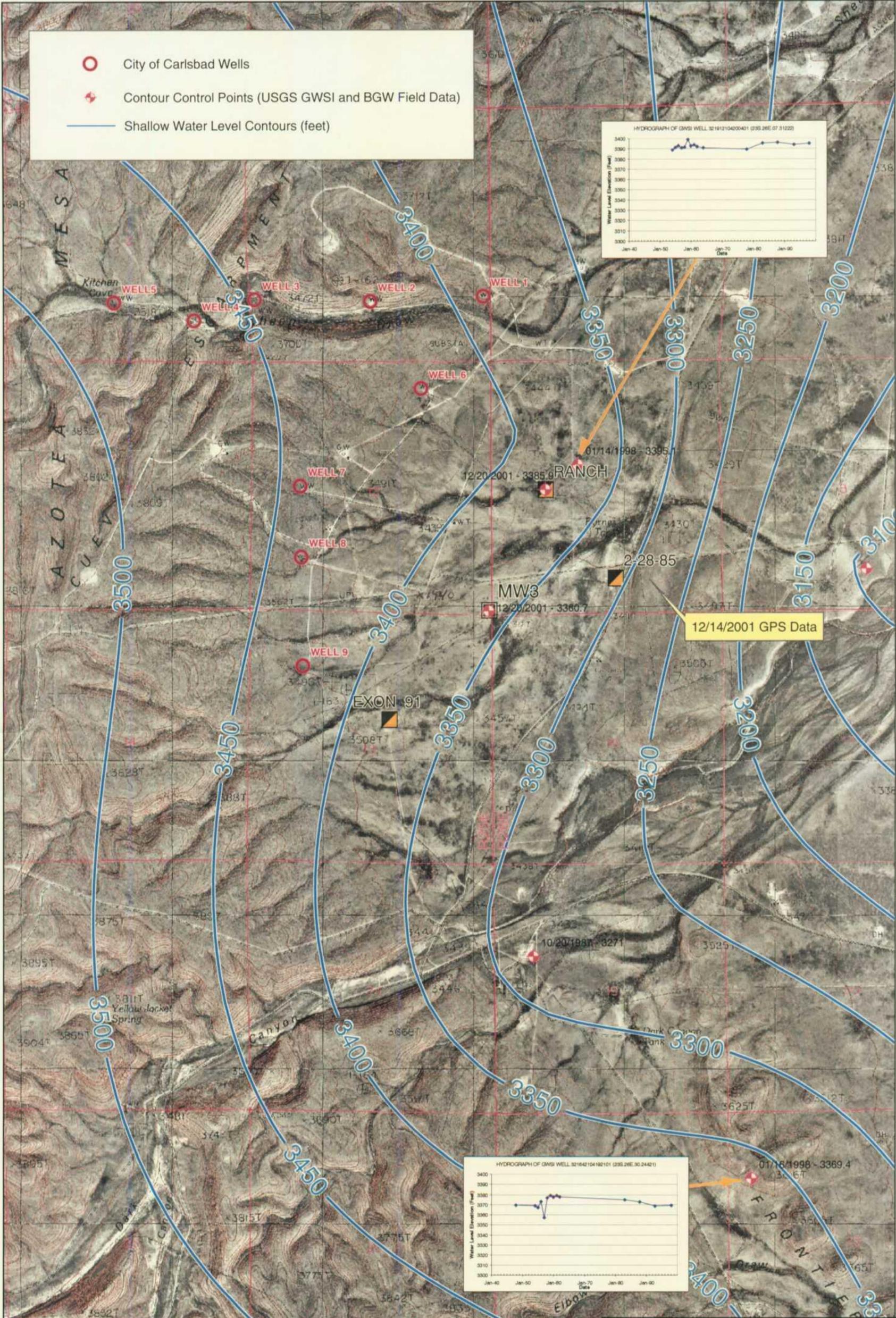
FIGURE 1



-  City of Carlsbad Wells
-  Contour Control Points (USGS GWSI and BGW Field Data)
-  Shallow Water Level Contours (feet)



12/14/2001 GPS Data



CARLSBAD / WELLFIELD PLANNING

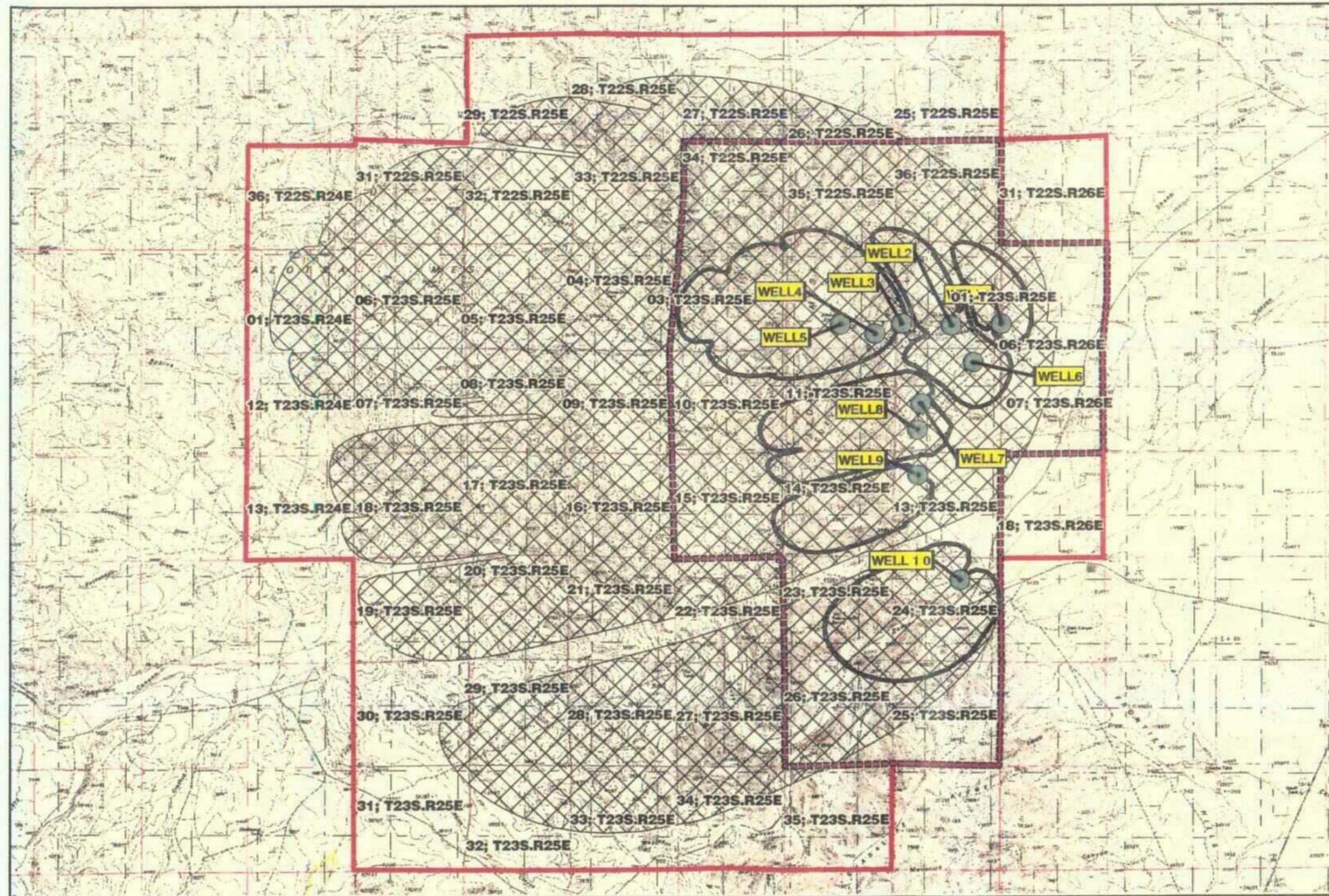
CITY OF CARLSBAD MW-3 LOCALITY MAP

DATE: 12/20/2001  
 PRODUCED BY: SES  
 CHECKED BY: RW  
 FILE NAME: LOCALITY.MXD

FIGURE 1



# CITY OF CARLSBAD SHEEP DRAW WELLFIELD WELLHEAD PROTECTION AREAS



**Legend**

- 2 YEAR WELLHEAD PROTECTION AREA BOUNDARY
- 2 YEAR WELL CAPTURE ZONE
- 10 YEAR WELLHEAD PROTECTION AREA BOUNDARY
- 10 YEAR WELL CAPTURE ZONE

**FIGURE 8**

**SHEEP DRAW WELLFIELD  
WELLHEAD PROTECTION AREA**

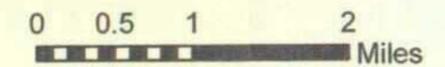
2 YEAR PROTECTION AREA

Critical Impact Area

10 YEAR PROTECTION AREA

Significant Impact Area

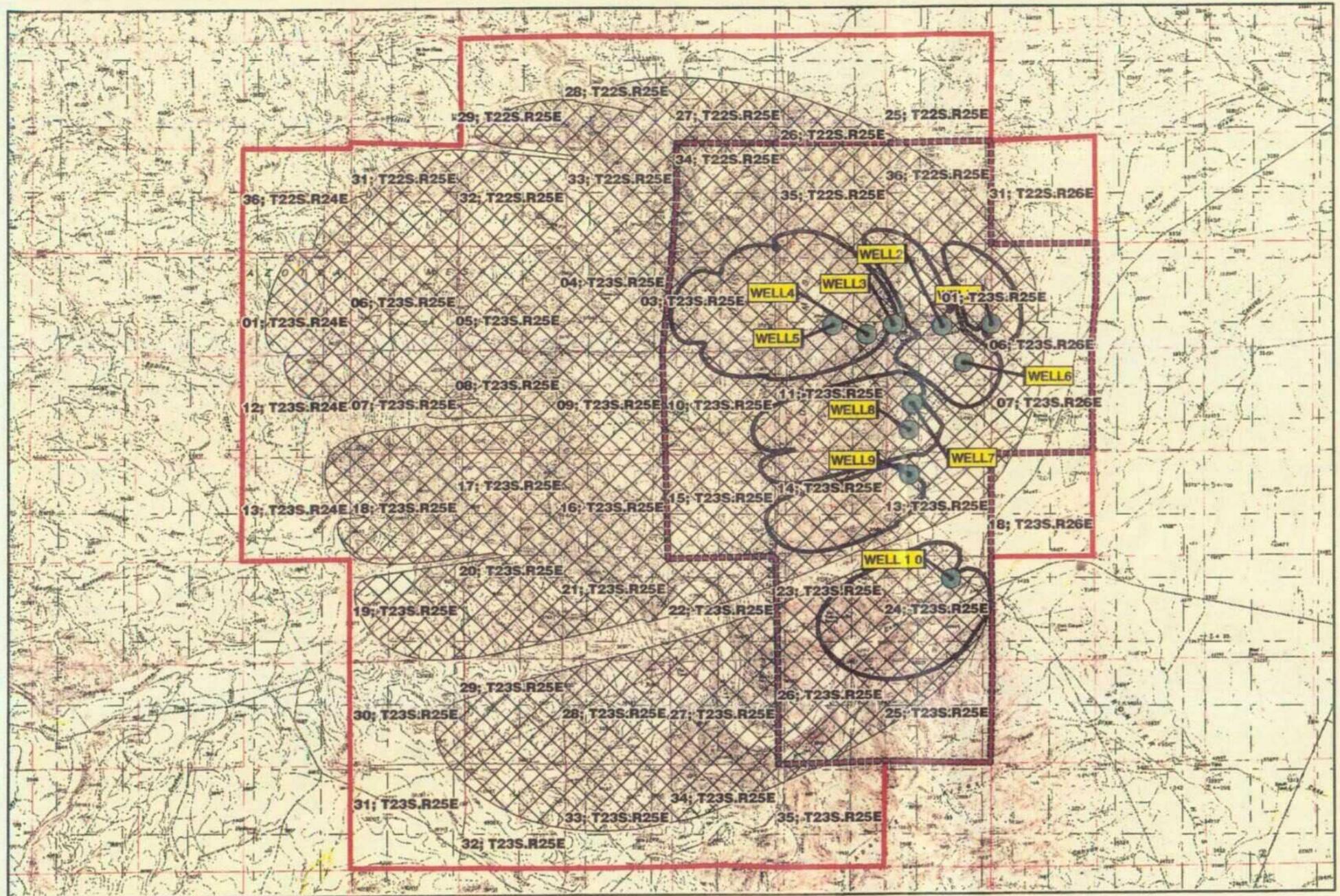
TOWNSHIP	RANGE	SECTION
T22S	R25E	36
T22S	R25E	35
T22S	R25E	34
T23S	R25E	2
T23S	R25E	1
T23S	R26E	6
T23S	R26E	3
T23S	R26E	7
T23S	R25E	11
T23S	R25E	12
T23S	R25E	10
T23S	R25E	14
T23S	R25E	13
T23S	R25E	15
T23S	R25E	23
T23S	R25E	24
T23S	R25E	26
T23S	R25E	25
T22S	R24E	36
T22S	R25E	25
T22S	R25E	26
T22S	R25E	27
T22S	R25E	28
T22S	R25E	29
T22S	R25E	31
T22S	R25E	32
T22S	R25E	33
T22S	R25E	34
T22S	R25E	35
T22S	R25E	36
T22S	R26E	31
T23S	R24E	1
T23S	R24E	12
T23S	R24E	13
T23S	R25E	1
T23S	R25E	2
T23S	R25E	3
T23S	R25E	4
T23S	R25E	5
T23S	R25E	6
T23S	R25E	7
T23S	R25E	8
T23S	R25E	9
T23S	R25E	10
T23S	R25E	11
T23S	R25E	12
T23S	R25E	13
T23S	R25E	14
T23S	R25E	15
T23S	R25E	16
T23S	R25E	17
T23S	R25E	18
T23S	R25E	19
T23S	R25E	20
T23S	R25E	21
T23S	R25E	22
T23S	R25E	23
T23S	R25E	24
T23S	R25E	25
T23S	R25E	26
T23S	R25E	27
T23S	R25E	28
T23S	R25E	29
T23S	R25E	30
T23S	R25E	31
T23S	R25E	32
T23S	R25E	33
T23S	R25E	34
T23S	R25E	35
T23S	R26E	6



PROJECTION: NEW MEXICO  
STATEPLANE EAST ZONE, NAD27

DATA SOURCE: USGS 1:24,000 DRGS, "WHPA VERSION 2.2",  
1993, HYDROLOGIC, INC., DEVELOPED FOR  
THE USEPA OFFICE OF GROUNDWATER PROTECTION.

# CITY OF CARLSBAD SHEEP DRAW WELLFIELD WELLHEAD PROTECTION AREAS



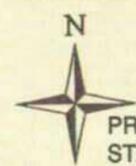
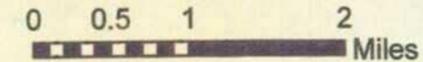
**Legend**

- 2 YEAR WELLHEAD PROTECTION AREA BOUNDARY
- 2 YEAR WELL CAPTURE ZONE
- 10 YEAR WELLHEAD PROTECTION AREA BOUNDARY
- 10 YEAR WELL CAPTURE ZONE

**FIGURE 8**

**SHEEP DRAW WELLFIELD  
WELLHEAD PROTECTION AREA**

	TOWNSHIP	RANGE	SECTION	
2 YEAR PROTECTION AREA	T22S	R25E	36	
	T22S	R25E	35	
	T22S	R25E	34	
	Critical Impact Area	T23S	R25E	2
		T23S	R25E	1
		T23S	R25E	6
		T23S	R25E	3
		T23S	R25E	7
		T23S	R25E	11
	10 YEAR PROTECTION AREA	T23S	R25E	12
T23S		R25E	10	
T23S		R25E	14	
T23S		R25E	13	
T23S		R25E	15	
T23S		R25E	23	
T23S		R25E	24	
T23S		R25E	26	
T23S		R25E	25	
Significant Impact Area		T22S	R24E	36
	T22S	R25E	25	
	T22S	R25E	26	
	T22S	R25E	27	
	T22S	R25E	28	
	T22S	R25E	29	
	T22S	R25E	31	
	T22S	R25E	32	
	T22S	R25E	33	
	T22S	R25E	34	
T22S	R25E	35		
T22S	R25E	36		
T22S	R26E	31		
T23S	R24E	1		
T23S	R24E	12		
T23S	R24E	13		
T23S	R25E	1		
T23S	R25E	2		
T23S	R25E	3		
T23S	R25E	4		
T23S	R25E	5		
T23S	R25E	6		
T23S	R25E	7		
T23S	R25E	8		
T23S	R25E	9		
T23S	R25E	10		
T23S	R25E	11		
T23S	R25E	12		
T23S	R25E	13		
T23S	R25E	14		
T23S	R25E	15		
T23S	R25E	16		
T23S	R25E	17		
T23S	R25E	18		
T23S	R25E	19		
T23S	R25E	20		
T23S	R25E	21		
T23S	R25E	22		
T23S	R25E	23		
T23S	R25E	24		
T23S	R25E	25		
T23S	R25E	26		
T23S	R25E	27		
T23S	R25E	28		
T23S	R25E	29		
T23S	R25E	30		
T23S	R25E	31		
T23S	R25E	32		
T23S	R25E	33		
T23S	R25E	34		
T23S	R25E	35		
T23S	R26E	6		



PROJECTION: NEW MEXICO STATEPLANE EAST ZONE, NAD27

DATA SOURCE: USGS 1:24,000 DRGS, "WHPA VERSION 2.2", 1993, HYDROLOGIC, INC., DEVELOPED FOR THE USEPA OFFICE OF GROUNDWATER PROTECTION.