

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)				38.	GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
			San Juan 28-7 Unit #226E	Ojo Alamo	2423'		
				Kirtland	2552'		
				Fruitland Fm	2829'		
				Picture Cliffs	3227'		
				Lewis	3391'		
				Chacra	4184'		
				Cliffhouse Mesa Verde	4872'		
				Menefee	5025'		
				Point Lookout	5452'		
				Mancos	5858'		
				Gallup	6638'		
				Greenhorn	7383'		
				Graneros	7442'		
				Paguate	7599'		

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

(See other
instructions)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

(14)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		12. FIELD AND POOL, OR WILDCAT Blanco Mesaverde	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> DHC = 2662		7. UNIT AGREEMENT NAME Day 2	
2. NAME OF OPERATOR Amoco Production Company		9. API WELL NO. 30-045-23361	
3. ADDRESS AND TELEPHONE NO. P.O. Box 3092 Houston, TX 281-366-2548		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 2340' FNL 1450' FEL At top prod. interval reported Unit G At total		11. SEC. T., R., M. OR BLOCK AND SURVEY OR AREA Section 8 Township 29N Range 8W	
14. PERMIT NO.		DATE ISSUED 05/31/2000	
15. DATE SPUDDED 04/05/2009		16. DATE T.D. REACHED 04/13/2009	
17. DATE COMPL. (Ready to prod.) 09/15/2000		18. ELEVATIONS (OF, RKB, RT, GR, ETC.) 6404'	
19. ELEV. CASINGHEAD		20. TOTAL DEPTH, MD & TVD 7635	
21. PLUG, BACK T.D., MD & TVD 7600'		22. IF MULTIPLE COMPL., HOW MANY?	
23. INTERVALS DRILLED BY Rotary		24. ROTARY TOOLS Rotary	
25. CABLE TOOLS		26. WAS DIRECTIONAL SURVEY MADE NO	
27. WAS WELL CORED N		28. TYPE ELECTRIC AND OTHER LOGS RUN Ind. - GR; CDL, Caliper	
29. CASING RECORD (Report all strings set in well)			
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
9 5/8"	36#	225'	12 1/4"
7"	23#	3500'	8 3/4"
4 1/2"	10.5# & 11.6#	7635'	6 1/4"
30. TOP OF CEMENT, CEMENTING RECORD			
125 SXS			
700 SXS			
550 SXS			
31. AMOUNT PULLED			
32. LINER RECORD		33. TUBING RECORD	
SIZE	TOP (MD)	SIZE	DEPTH SET (MD)
4 1/2"	3321'	2 3/8"	7359'
BOTTOM (MD)	SACKS CEMENT*	PACKER SET (MD)	
7635'	550 SXS		
34. PERFORATION RECORD (Interval, size, and number)			
1. 5073'-5165' & 5455' - 5478' w/2 JSPF. .340 inch diameter, 22 shots			
2. 5262' - 5415' w/1 JSPF. .340 inch diameter, 18 shots			
3. 4654' - 4842' w/1 JSPF. .340 inch diameter, 23 shots			
4. 4865' - 4958' w/2 JSPF. .340 inch diameter, 12 shots			
35. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5073'	5165'	80,000# 16/30 sand & 70 Quality Foam	
5455'	5478'	80,000# 16/30 sand & 70 Quality Foam	
4654'	4958'	80,000# 16/30 sand & 70 Quality Foam	
36. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump)	
		F	
DATE OF TEST 09/12/2000		WELL STATUS (Producing or shut-in) SI	
HOURS TESTED 12 hrs.	CHOKE SIZE 3/4"	PROD'N FOR TEST PERIOD Trace	GAS - MCF. 1300 MCF
WATER - BBL. Trace	GAS - OIL RATIO		
FLOW TUBING PRESS.	CASING PRESSURE 120#	CALCULATED 24-HOUR RATE	OIL - BBL.
		GAS - MCF.	WATER - BBL.
		OIL - BBL. (CORR.)	
37. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD		TEST WITNESSED BY ACCEPTED FOR RECORD OCT 25 2000	
38. LIST OF ATTACHMENTS			
39. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <i>Melissa Velasco</i>		TITLE Permitting Assistant	
DATE 09/29/2000			

*(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.

0
Day 2
RECOMPLETION SUBSEQUENT REPORT
09/29/00

09/05/00 MIRUSU @ 0900 hrs. NDWH & NU BOP's. TOH W/TBG.

09/06/00 TIH & set a CIBP @ 5650'. Load hole w/2% KcL water. Pressure Test CS6 to 2500#. Held Ok. SDFN.

09/07/00 RU & Perf 1st Stage as follows w/2 JSPF, .340 inch diameter, total shots fired 22:

5073'	5118'	5150'	5470'
5102'	5128'	5165'	5478'
5108'	5140'	5455'	

Perf 1st Stage as follows w/1 JSPF, .340 inch diameter, total shots fired 18:

5262'	5290'	5322'	5348'	5375'	5388'
5270'	5300'	5324'	5350'	5378'	5402'
5280'	5312'	5334'	5358'	5385'	5415'

09/08/00 RU & Frac 1st Stage w/80,000# of 16/30 Arizona Sand & 70% Foam. RU & TIH w/CIBP & set @ 4985'.

RU & Perf 2nd Stage as follows w/1 JSPF, .340 inch diameter, total shots fired 23:

4654'	4686'	4715'	4752'	4804'	4832'
4663'	4690'	4725'	4768'	4812'	4840'
4670'	4695'	4732'	4782'	4820'	4842'
4676'	4700'	4742'	4795'	4825'	

RU & Perf 2nd Stage as follows w/2 JSPF, .340 inch diameter, total shots fired 12:

4865'	4943'
4906'	4948'
4935'	4958'

RU & Frac 2nd Stage w/80,000# of 16/30 Arizona Sand & 70% Foam. RU & Flow back well thru $\frac{1}{4}$ " choke all night.

09/11/00 Open well up to 3" line. RU & TIH w/ 3 7/8" mill & 2 $\frac{1}{4}$ " TBG & tag fill @ 4820'. RU & C/O sand to top of CIBP set @ 4985'. PU above perfs. SDFN.

09/12/00 TIH & tag fill @ 4970'. RU & C/O to top of CIBP @ 4985'. PU above liner top & flowed well all night.

09/13/00 TOH tag fill @ 7524. CIRC hole clean to PBD 7600'. PU above perfs & flowed well through 3" lines. SDFN.

09/14/00 TIH & tag fill @ 7594'.

09/15/00 TIH & Land TBG @ 7357'. ND BOP's & NUWH. Pull TBG plug & ran into hole w/TBG.

RDMOSU. Rig Release @ 0700 hrs.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTSUBMIT IN DUPLICATE* -
(See other instructions on reverse side)FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. NM-0493	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> REFINISH <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. ENTRY <input type="checkbox"/> Other <u>ADD FRUITLAND SAND ZONE</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR TEXAKOMA OIL & GAS CORPORATION		7. UNIT AGREEMENT NAME N/A	
3. ADDRESS AND TELEPHONE NO. 5400 LBJ FREEWAY, SUITE 500, DALLAS, TX 75240 (972) 701-9106		8. FARM OR LEASE NAME, WELL NO. FEDERAL 8-1 FC	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1080' FNL and 1490' FEL, SEC 8 T30N R12W At top prod. interval reported below SAME AS ABOVE At total depth SAME AS ABOVE		9. API WELL NO. 30-045-28927	
14. PERMIT NO. _____ DATE ISSUED _____		10. FIELD AND POOL, OR WILDCAT FLORA VISTA FRUITLAND SAND	
15. DATE SPUDDED 12/31/92		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SEC 8, T30N R12W	
16. DATE T.D. REACHED 1/6/93		12. COUNTY OR PARISH SAN JUAN	
17. DATE COMPL. (Ready to prod.) 10-12-2000		13. STATE NEW MEXICO	
18. ELEVATIONS (OF RKB, RT, OR, ETC.)* 5832' RKB		19. ELEV. CASINGHEAD 5816'	
20. TOTAL DEPTH, MD & TVD 2150'		21. PLUG, BACK T.D., MD & TVD 2106'	
22. IF MULTIPLE COMPL., HOW MANY* 2		23. INTERVALS DRILLED BY 0'-2150'	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* FLORA VISTA FRUITLAND SAND (1749'-1845')		25. WAS DIRECTIONAL SURVEY MADE NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN DUAL COMPENSATED POROSITY, MICRO-RESISTIVITY, GR-CBL		27. WAS WELL CORED NO	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	AMOUNT PULLED
8 5/4"/J	24	310.25'	NONE
4 1/2"/J	11.6	2148'	NONE
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8"	2037'	NONE	
31. PERFORATION RECORD (Interval, size and number)			
1836-1846', 0.390 EHD, 40 HOLES			
1789-1798', 0.39 EHD, 36 HOLES			
1772-1778', 0.39 EHD, 24 HOLES			
1749-1754', 0.39 EHD, 20 HOLES			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
1749'-1845'		62,076g. 20# Gel w/ 138,000# 12/20 Sand	
33. PRODUCTION			
DATE FIRST PRODUCTION 10/13/00		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) FLOWING	
DATE OF TEST 10/15/00		WELL STATUS (Producing or shut-in) PRODUCING	
HOURS TESTED 24	CHOKE SIZE NA	PROD'N. FOR TEST PERIOD →	
FLOW. TUBING PRESS. 150	CASING PRESSURE 580	PROD'N. FOR 24-HOUR RATE →	
OIL—BBL. 0		GAS—MCF. 300	WATER—BBL. 65
OIL GRAVITY-API (CORR.) NA			
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD			
35. LIST OF ATTACHMENTS BRAD SALZMAN			

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

SIGNED

Tom Sprinkle

TITLE DRILLING MANAGER

DATE 10-20-00

*(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):

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):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TR VERT. I
FRUITLAND	1700'	1830'	ALTERNATING GRAY SILTSTONE & GRAY TO BLACK SHALES - NO SHOW			
FRUITLAND SAND	1830'	2036'	GRAY TO WHITE, FINE TO VERY FINE GRAINED MINERAL INCLUSIONS, HARD, NO VISIBLE POROSITY, THIN COALS, SLIGHT BUBBLING OF GAS			
BASAL COAL	2036'	2056'	BLACK, BANDED, SEMI BRIGHT TO BRIGHT, BLOCKY, RESINOUS, GOOD GAS SHOW			
PICTURE CLIFFS	2056'	2150'	SANDSTONE - WHITE TO GRAY, SUB RD TO RD, SALT & PEPPER, FINE GRAIN, SOME CLAY FILLED POLOSITY, GAS SHOW @ TOP DECREASING THROUGHOUT			

(21)

Submit to
Appropriate
District Office
State Lease - 6

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

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C 105
Revised 11-89

WELL API NO.	30-045-30267
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		7. Lease Name or Unit Agreement Name Uptegrove Gas Com	
b. Type of NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF RESVR <input type="checkbox"/> OTHER <input type="checkbox"/>		8. Well No. 1B	
2. Name of Operator Amoco Production Company		9. Pool name or Wildcat Blanco Mesaverde	
3. Address of Operator P.O. Box 3092 Houston, Texas 77253-3092			
4. Well Location Unit Letter <u>O</u> : <u>790'</u> Feet From The <u>South</u> Line and <u>2170'</u> Feet From The <u>East</u> Line Section <u>33</u> Township <u>32N</u> Range <u>10W</u> <u>NMPM</u> <u>San Juan</u> County			
10. Date Spudded 07-29-00	11. Date T.D. Reached 08-03-00	12. Date Compl. (Ready to Prod.) 10-24-00	13. Elevations (DF & RKB, RT, GR, etc.) 5859'
14. Elev. Casinghead			
15. Total Depth 5224'	16. Plug Back T.D. 5196'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools YES Cable Tools NO
19. Producing Interval(s) of this completion - Top, Bottom, Name 4229' - 5070' Blanco Mesaverde			20. Was Directional Survey Made
21. Type Electric and Other Logs Run TDT			22. Was Well Cored

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8" H-40	32.3#	146'	13 1/2"	260 SXS CLS B to Surface	
7" N-80J-55	20# & 23#	2104'	8 3/4"	311 SXS CLS B Surface	

24. LINER RECORD				25. TUBING RECORD			
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
4 1/2"	2080'	5156'	300 SXS		2 3/8"	5006'	
26. Perforation record (interval, size, and number)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
4741' - 5070' 2 JSPF 0.330 inch diameter, total shots 50				DEPTH INTERVAL			
4229' - 4657' 2 JSPF 0.330 inch diameter, total shots 46				AMOUNT AND KIND MATERIAL USED			
				4741' 5070' 99,500# 20/40 Arizona Sand & Slickwater			
				4229' 4657' 99,500# 20/40 Arizona Sand & Slickwater			

28. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump) F				Well Status (Prod. or Shut-in) SI	
Date of Test 24 Oct 2000	Hours Tested 13	Choke Size 3/4"	Prod'n For Test Period	Oil - Bbl. Trace	Gas - MCF 2500 MCF	Water - Bbl.	Gas - Oil Ratio
Flow Tubing Press. 158#	Casing Pressure 300#	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) To Be Sold						Test Witnessed By	
30. List Attachments							

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 Melissa Velasco Printed Name Melissa Velasco Title Permitting Assistant Date 10-26-200

(19)

1990

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	1164'	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	1262'	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	2680'	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	4514'	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	4600'	T. Madison
T. Queen	T. Silurian	T. Point Lookout	4950'	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	5100'	T. McCracken
T. San Andres	T. Simpson	T. Gallup		T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn		T. Granite
T. Paddock	T. Ellenburger	T. Dakota		T.
T. Blinebry	T. Gr. Wash	T. Morrison		T.
T. Tubb	T. Delaware Sand	T. Todilto		T.
T. Drinkard	T. Bone Springs	T. Entrada		T.
T. Abo	T.	T. Wingate		T.
T. Wolfcamp	T.	T. Chinle		T.
T. Penn	T.	T. Permian		T.
T. Cisco (Bough C)	T.	T. Penn "A"		T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

FORM APPROVED
Budget Bureau No. 1004-1
Expires: March 31, 1991

SUNDRY NOTICES AND REPORTS ON WELLS

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

96 JAN 26 AM 11:08
BLM ALBUQUERQUE, N.M.

SUBMIT IN TRIPLICATE

San Isidro (Shallow)

1. Type of Well
☒ Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
Energy Development Corporation (713) 750-7563

3. Address and Telephone No.
1000 Louisiana, Suite 2900, Houston, Tx. 77002

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

Surface: NESW 7-20n-2w

BHL: Same

5. Lease Designation and Serial No.
NM-44453

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
San Isidro (Shallow)

8. Well Name and No.
San Is. (Sh'w.) 7-11

9. API Well No.
30-043-20729

10. Field and Pool, or Exploratory Area
Rio Puerco Mancos

11. County or Parish, State
Sandoval, 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"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Other	<input checked="" 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.)*

Will convert existing oil well to a water disposal injection well as detailed in attached state application.



cc: BLM(3 + 2 for OCD), Linton

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

Title Consultant (505) 466-8120

Date 1-24-96

(Leave space for Federal or State office use)

Approved by /s/ Patricia M. Hester

Title Lands and Mineral Resources

Date 8/28/97

Conditions of approval, if any:

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance XXX Disposal Storage
Application qualifies for administrative approval? Yes XX No
- II. OPERATOR: ENERGY DEVELOPMENT CORPORATION
ADDRESS: 1000 LOUISIANA, SUITE 2900, HOUSTON, TX. 77002
CONTACT PARTY: BRIAN WOOD c/o PERMITS WEST, INC. PHONE: 505 488-8120
- III. WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project: Yes XXX No
If yes, give the Division order number authorizing the project _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted.)
- * XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN WOOD TITLE: CONSULTANT
SIGNATURE: Brian Wood DATE: 1-24-96
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance of the earlier submittal. _____

Energy Development Corporation
San Isidro (Shallow) Unit 7-11
2074' FSL & 1650' FWL
Sec. 7, T. 20 N., R. 2 W.
Sandoval County, NM

PAGE 1

DISPOSAL WELL APPLICATION

I. Purpose is disposal.

II. Operator is Energy Development Corporation.

Address is 1000 Louisiana, Suite 2900, Houston, Tx. 77002.

Contact is Brian Wood (Permits West, Inc.). Phone is (505) 466-8120.

III. A. (1) Lease is BLM oil and gas lease NM-44453, which comprises all of Sections 6-8, T. 20 N., R. & W. When APD was filed, prior to unit formation, lease was known as Johnson 7-11. Well name and number is San Isidro (Shallow) Unit 7-11. Well is at 2074' FSL and 1650' FWL Sec. 7, T. 20 N., R. 2 W.

A. (2) Surface casing (9-5/8", 36#, J-55) was set at 595' in a 13-1/2" hole and cemented to the surface (visually observed) with 135 sx (448 cu ft) 65/35 Pozmix and 150 sx (177 cu ft) Class B. Intermediate string (7", 23#, J-55) was set at 3666' KB in a 8-3/4" hole and cemented to 325' (checked by log) with 230 sx (766 cu ft) 65/35 Pozmix and 100 sx (118 cu ft) Class B. Long string (4-1/2", 10.5#, J-55) was set at 4762' KB in a 6" hole and cemented to 3339' (checked by log) with 165 sx (208 cu ft) 50/50 Pozmix.

A. (3) Tubing will be ceramic lined 2-7/8" 6.5# injection string set at 2349' (disposal interval is 2438' - 2624').

A. (4) Model R packer from Baker will be set at 2350'.

B. (1) Disposal zone will be Menefee Formation.

B. (2) Disposal interval will be 2438' - 2624'. It was perforated (0.36") with 2 shots per foot through 6 intervals (2438'-2441', 2516'-2522', 2550'-2562', 2590'-2594', 2600-2604', 2614'-2624') in 1992 during testing for a possible oil well completion (Mancos was completed in 1984, but became sub-marginal and was abandoned).

B. (3) Well was drilled in 1984 as a Mancos oil well.

B. (4) Mancos was perforated from 4169' to 4290'. During 1992 recompletion into Menefee a CIBP was set at 2667' and 4 perforations at 3160'-3162' were squeezed.

B. (5) Top of Mancos is 3112', which is 488' below the lowest Menefee perforation. While neither produce locally, Pt. Lookout top (2940') is

Energy Development Corporation
San Isidro (Shallow) Unit 7-11
2074' FSL & 1650' FWL
Sec. 7, T. 20 N., R. 2 W.
Sandoval County, NM

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DISPOSAL WELL APPLICATION

316' below the lowest Menefee perforation and the Cliff House top (1632') is 806' above the highest Menefee perforation.

IV. This is not an expansion of an existing injection project.

V. A map is attached showing all wells within a half mile (there are none, closest is the 7-3 which is 2765' north and its BHL is 4757' north) and within 2 miles (12 oil + 3 P&A; all 15 wells are within the unit). The same map also shows all leases within a half mile (all Federal and all within the unit) and within two miles (all Federal or state).

VI. This is the only well within a half mile. Profile is attached.

VII. 1. Average injection rate = 100 bwpd. Maximum rate = 1000 bwpd.
2. System will be open (trucked to well). Two 300 bbl steel tanks, Gasso 3211 triplex pump with Waukesha CRG 155 engine, and a 20" filter cartridge with two 75 micron filters will be installed.
3. Average injection pressure = 700 psi. Maximum = 2000 psi.
4. Water source will be unit wells producing from Mancos. Analyses of receiving (7-11) and injected waters are attached. A summary follows:

Parameter	Drink. Water Stand.	7-11*	7-3	5-15	12-10
pH	6.5-8.5	7.6-8.0	7.5	7.5	7.3
TDS	500	8790	3243	27356	25495
Bicarbonate	-	630-2020	988	744	598
Chloride	250	1029-3800	1300	16000	15000
Sulfate	250	<300	11	81	3
Calcium	-	58-116	120	1080	120
Magnesium	-	0.1-64	389	98	170
Sodium	-	3062	348	9271	9495
Iron	0.3	1.0	2.6	36	3.6
Barium	1.0	17.0	85	46	105
Total Hardness	-	200	1900	3100	1000

*range of 3 different samples

Energy Development Corporation
San Isidro (Shallow) Unit 7-11
2074' FSL & 1650' FWL
Sec. 7, T. 20 N., R. 2 W.
Sandoval County, NM

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DISPOSAL WELL APPLICATION

5. Analysis of disposal zone water is attached. Salient points are that the disposal zone water TDS exceeds drinking water standards by over 17 times, chlorides by 4 to 15 times, iron by 3 times, and barium 17 times. The Menefee is a mix of coal, shale, claystone, carbonaceous siltstone, and sandstone layers. Its depositional environment was a marine lagoon. An analysis (S. E. Craig's 1980 Hydrogeology and water resources of the Chico Arroyo - Torreon Wash Area, McKinley and Sandoval Counties, New Mexico) of Menefee water 20-30 miles southwest of the 7-11 well found TDS increased from southwest to northeast to a high of 10,272. Five unit wells (5-2, 6-16, 11-14, 12-10, 13-11) which penetrated the Menefee and reported what they found, found oil in the Menefee. All five wells are within 2 miles of the 7-11.

VIII. The Menefee consists of coal, shale, claystone, carbonaceous siltstone, and sandstone. Menefee oil pools are found at the Rusty (≈ 30 mi. W in 22n-7w) and Seven Lakes (≈ 50 mi. SW in 18n-10w) Fields. It is 627' thick in the 7-11 wellbore. Top is 2312' and bottom is 2939'. Fracture gradient is 0.82 psi/ft.

Two zones (Pictured Cliffs and Cliff House) above the Menefee are water bearing. Local TDS data from these zones is lacking. Basin wide, specific conductance of Pictured Cliffs and Cliff House water ranges from 2000 μ mhos near outcrops to 30,000 μ mhos in deeper gas prone areas. Five unit wells (5-2, 6-16, 11-14, 12-10, 13-11) penetrated the Pictured Cliffs and reported what was found there. All five found gas in the Pictured Cliffs. Three unit wells (5-2, 11-14, 12-10) penetrated the Cliff House and reported what was found there. All three found gas in the Cliff House.

The water bearing Pt. Lookout lies immediately below the Menefee. Four unit wells penetrated the Pt. Lookout and reported what was found there. Two (11-14, 12-10) of the four reported they found gas and two (6-16, 13-11) reported they found oil and gas.

IX. Stimulation, if needed, will be acidization.

Energy Development Corporation
San Isidro (Shallow) Unit 7-11
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Sec. 7, T. 20 N., R. 2 W.
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DISPOSAL WELL APPLICATION

- X. Induction, CDL, GR, Compensated Density, Sidewall Neutron, and CBL logs were run and are on file.
- XI. Based on a field inspection (Dec. 20) and the NM State Engineer's Office record review (Oct. 26), there are no fresh water wells within a mile of the 7-11.
- XII. Geologic and engineering data at the NM Oil Conservation Div. and NM Institute of Mining & Technology have been examined. No evidence of open faults or other hydrologic connection between the Menefee and any underground source of water has been found. An injectivity test was run on 9-28-95 and the Menefee tested at a rate of 720 bwpd and 700 psi.
- XIII. Notice has been sent to the surface owner (BLM Albuquerque District). Energy Development Corporation is the operator of all leases within a half mile since all leases within a half mile are in its San Isidro (Shallow) Unit.

INJECTION WELL DATA SHEET

Energy Development Corporation

NM-44453

OPERATOR

LEASE

San Isidro (Shallow) Unit 7-11

2074' FSL & 1650' FWL 7-20n-2w

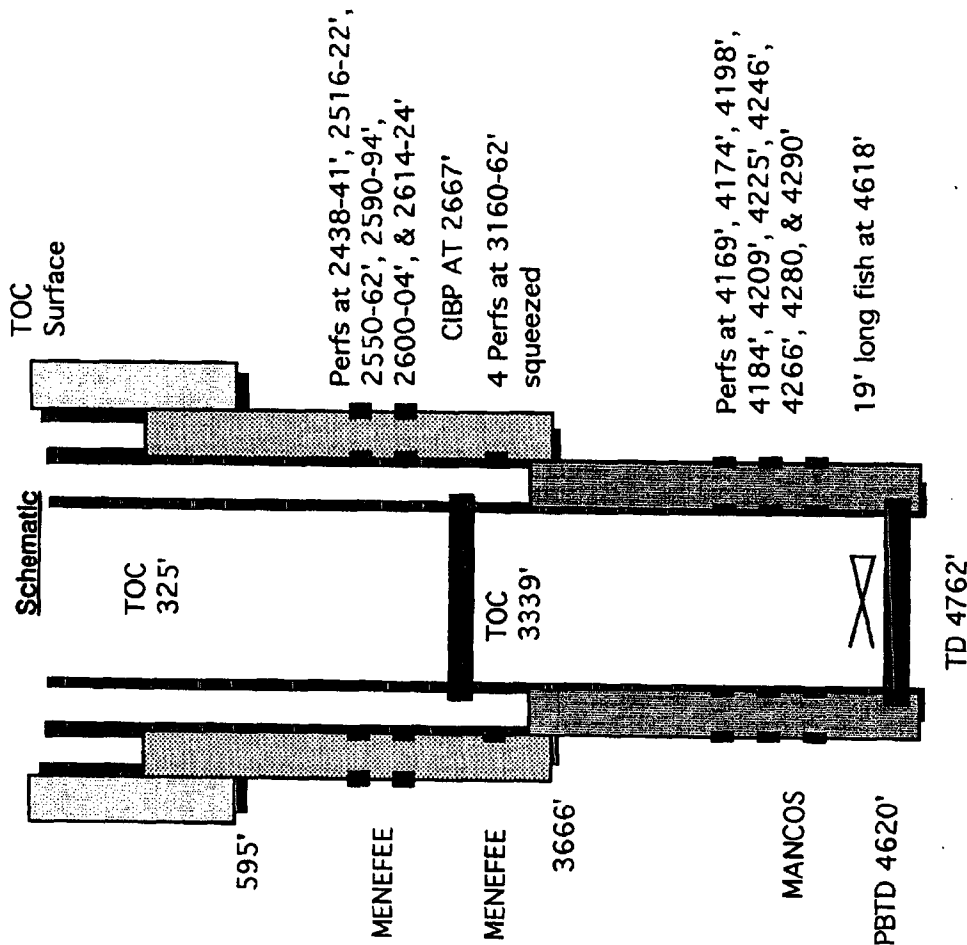
WELL NO.

FOOTAGE LOCATION

SECTION

TOWNSHIP

RANGE



Well Construction Data

Surface Casing

Size 9-5/8" • Cemented with 285 sx.

TOC Surface feet determined by Visual

Hole Size 13-1/2" (448 cf 65/35 Poz + 177 cf Class B)

Intermediate Casing

Size 7" • Cemented with 330 sx.

TOC 325' feet determined by Log

Hole Size 8-3/4" (766 cf 65/35 Poz + 118 cf Class B)

Long String

Size 4-1/2" • Cemented with 165 sx.

TOC 3,339' feet determined by Log

Hole Size 6" (208 cf 50/50 Poz)

Total Depth 4,775' (PBTD 4620' with CIBP @ 2,667')

Injection Interval

Injection Interval 2,624' feet to 2,667' feet
(perforated or open-hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size 2-7/8" 6.5# lined with Ceramic set in a
Baker packer at 2,350 (type of internal coating) feet
Other type of tubing / casing seal if applicable N/A

Other Data

1. Is this a new well drilled for injection? Yes ☐ No ☒

If no, for what purpose was the well originally drilled? Drilled & produced briefly as Mancos oil well. Later recompleted in Menefee (no production).

2. Name of the injection formation Menefee
3. Name of Field or Pool (if applicable) Rio Puerco Mancos

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. Mancos perfed. between 4,169' & 4,290' at 10 different levels (1 spf, 0.32" holes, 3-1/8" carrier gun). CIBP @ 2667'.

5. Give the names and depths of any over or underlying oil of gas zones (pools) in this area.

Over: None designated, but some unproductive oil & gas zones present

Under: Mancos

SAN ISIDRO

WATER ANALYSIS REPORT

Company : EDC
Address : CUBA, N.M.
Lease : REO PERCO
Well : INJ. WULL
Sample Pt. : SWAB

Date : 10-26-95
Date Sampled : 10-25-95
Analysis No.

ANALYSIS	mg/L	* meq/L
1. pH	8.0	
2. H2S	N/A	
3. Specific Gravity	1	
4. Total Dissolved Solids	8790.1	
5. Suspended Solids		
6. Dissolved Oxygen		
7. Dissolved CO2		
8. Oil in Water		
9. Phenolphthalein Alkalinity (CaCO3)		
10. Methyl Orange Alkalinity (CaCO3)		
11. Bicarbonate	HCO3 1830.0	HCO3 30.0
12. Chloride	Cl 3800.0	Cl 107.2
13. Sulfate	SO4 0.0	SO4 0.0
14. Calcium	Ca 80.0	Ca 4.0
15. Magnesium	Mg 0.1	Mg 0.0
16. Sodium (calculated)	Na 3062.1	Na 133.2
17. Iron	Fe 1.0	
18. Barium	Ba 17.0	
19. Strontium	Sr 0.0	
20. Total Hardness (CaCO3)	2000.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L = mg/L
41 *Ca <----- *HCO3	30. Ca(HCO3)2	81.0 4.0 324
----- /-----> -----	CuSO4	68.1
01 *Mg ----- *SO4	01 CuCl2	55.5
----- <----- / -----	Mg(HCO3)2	73.2 0.0 0
1331 *Na ----- *Cl	1071 MgSO4	60.2
----- +-----> -----	MgCl2	47.6
Saturation Values Dist. Water 20 C	NaHCO3	84.0 26.0 2184
CaCO3 13 mg/L	Na2SO4	71.0
CuSO4 * 21120 2000 mg/L	NaCl	58.4 107.2 6264
NaNO3 2.4 mg/L		

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted, D. STEWART

SCALE TENDENCY REPORT

Company : EDC Date : 10-26-95
Address : CURA, N.M. Date Sampled : 10-25-95
License : REO PERCO Analysis No. :
Well : INJ. WELL Analyst : D. STEWART
Sample Pt : SWAB

STABILITY INDEX CALCULATIONS (Stiff-Davis Method) CaCO₃ Scaling Tendency

S.I. = 1.3 at 80 deg F or 27 deg C
S.I. = 1.3 at 100 deg F or 38 deg C
S.I. = 1.3 at 120 deg F or 49 deg C
S.I. = 1.4 at 140 deg F or 60 deg C
S.I. = 1.4 at 160 deg F or 71 deg C

.....

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS (Skillman-McDonald-Stiff Method) Calcium Sulfate

S = 2290 at 80 deg F or 27 deg C
S = 2320 at 100 deg F or 38 deg C
S = 2315 at 120 deg F or 49 deg C
S = 2301 at 140 deg F or 60 deg C
S = 2264 at 160 deg F or 71 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted, D. STEWART

HALLIBURTON DISTRICT LABORATORY WATER ANALYSIS DATA SHEET

Analysis Date: 8-11-92

Report No. _____

To Veteran Exploration

Submitted By _____ Date Received 8-11-92

Well Number Johnson 7-11 Location 2560'-2570' (2nd Swab) Formation Menessee
Data for Report _____

Specific Gravity 1.001 1.001

pH 7.64 7.64

Aliquot or
Dilution

Ion Calculation

Fe Log	_____	Nil <u>Nil</u>
K %T	_____	Nil <u>Nil</u>
Na %T	_____	_____
Ca	_____	116 <u>116</u>
Mg	_____	64 <u>64</u>
Cl	_____	1038 <u>1029</u>
SO4 Log	_____	2300 <u>2300</u>
CO3	_____	_____
HCO3	_____	630 <u>630</u>
TDS	_____	_____

Rw 2.74 at 75 °F

NOTICE

This report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to negligence or otherwise arising out of or in connection with such data calculations or opinions.

SAN ISIDRO (SHALLOW) UNIT 7-11

HALLIBURTON DISTRICT LABORATORY WATER ANALYSIS DATA SHEET

Analysis Date: 8-11-92

Report No. _____

To Veteran Exploration

Submitted By _____ Date Received 8-11-92

Well (Number Johnson 7-11) Location 2560'-2570' (8th Swab) Formation Menefee
Data for Report _____

Specific Gravity 1.001 1.001

pH 7.71 7.71

Aliquot or
Dilution

Ion

Calculation

Fe Log

K %T

Na %T

Ca

Mg

Cl

SO₄ Log

CO₃

HCO₃

TDS

Rw 1.52 at 75 ° F

Nil Nil

Nil Nil

58

21

1074

<300

2020

NOTICE

This report is based on sound engineering practices, but because of variable well conditions and other information which must be relied upon, Halliburton makes no warranty, express or implied, as to the accuracy of the data or of any calculations or opinions expressed herein. You agree that Halliburton shall not be liable for any loss or damage whether due to negligence or otherwise arising out of or in connection with such data calculations or opinions.

WATER ANALYSIS REPORT

B. Sch...
~~_____~~

Company : E.D.C.
 Address : GUBA... M.
 Lease : REO PUERCO
 Well : 5-15 PRODUCER
 Sample Pt. : WELLHEAD

Date : 1-13-95
 Date Sampled : 1-10-95
 Analysis No. :

ANALYSIS		mg/L		* meq/L
1. pH	7.5			
2. H2S	1			
3. Specific Gravity	1.02			
4. Total Dissolved Solids		27356.2		
5. Suspended Solids				
6. Dissolved Oxygen				
7. Dissolved CO2				
8. Oil In Water				
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	744.0	HCO3	12.2
12. Chloride	Cl	16000.0	Cl	451.
13. Sulfate	SO4	81.0	SO4	1.
14. Calcium	Ca	1080.0	Ca	53.
15. Magnesium	Mg	97.9	Mg	8.
16. Sodium (calculated)	Na	9271.3	Na	403.
17. Iron	Fe	36.0		
18. Barium	Ba	46.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		3100.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
54 *Ca <----- *HCO3	12	Ca(HCO3)2	81.0	12.2	988
8 *Mg <----- *SO4	2	CaSO4	68.1	1.7	115
403 *Na <----- *Cl	451	CaCl2	55.5	40.0	2220
		Mg(HCO3)2	73.2		
		MgSO4	60.2		
		MgCl2	47.6	8.1	383
		NaHCO3	84.0		
		Na2SO4	71.0		
		NaCl	58.4	403.3	568

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 D. STEWART

WATER ANALYSIS REPORT

Company : E.D.C.
 Address : CUBA, N.M.
 Lease : REO PUERCO
 Well : 7-3 - *Producer*
 Sample Pt. : SEPARATOR

Date : 9-3-93
 Date Sampled : 9-1-93
 Analysis No. : 1

ANALYSIS		mg/L		* meq/L
1. pH		7.5		
2. H ₂ S		1		
3. Specific Gravity		1.01		
4. Total Dissolved Solids		3243.1		
5. Suspended Solids				
6. Dissolved Oxygen				
7. Dissolved CO ₂		22		
8. Oil In Water				
9. Phenolphthalein Alkalinity (CaCO ₃)				
10. Methyl Orange Alkalinity (CaCO ₃)				
11. Bicarbonate	HCO ₃	988.0	HCO ₃	16.2
12. Chloride	Cl	1300.0	Cl	36.7
13. Sulfate	SO ₄	11.0	SO ₄	0.2
14. Calcium	Ca	120.0	Ca	6.0
15. Magnesium	Mg	388.7	Mg	32.0
16. Sodium (calculated)	Na	347.8	Na	15.1
17. Iron	Fe	2.6		
18. Barium	Ba	85.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO ₃)		1900.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	mg/L
6	*Ca <----- *HCO ₃	Ca(HCO ₃) ₂	81.0	485
	/----->	CaSO ₄	68.1	
32	*Mg -----> *SO ₄	CaCl ₂	55.5	
	<-----/	Mg(HCO ₃) ₂	73.2	747
15	*Na -----> *Cl	MgSO ₄	60.2	14
		MgCl ₂	47.6	1026
Saturation Values Dist. Water 20 C				
CaCO ₃	13 mg/L	NaHCO ₃	84.0	
CaSO ₄ * 2H ₂ O	2090 mg/L	Na ₂ SO ₄	71.0	
BaSO ₄	2.4 mg/L	NaCl	58.4	884

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 D. STEWART

Company : E.D.C.
 Address : CUBA, N.M.
 Lease : REO PUERCO
 Well : 12-10 Producer
 Sample Pt. : SEPARATOR

Date : 9-3-93
 Date Sampled : 9-1-93
 Analysis No. : 1

ANALYSIS		mg/L	* meq/L	
-----		-----	-----	
1.	pH	7.3		
2.	H2S	2		
3.	Specific Gravity	1.01		
4.	Total Dissolved Solids	25494.9		
5.	Suspended Solids			
6.	Dissolved Oxygen			
7.	Dissolved CO2	66		
8.	Oil In Water			
9.	Phenolphthalein Alkalinity (CaCO3)			
10.	Methyl Orange Alkalinity (CaCO3)			
11.	Bicarbonate	HCO3 598.0	HCO3	9.0
12.	Chloride	Cl 15000.0	Cl	423.1
13.	Sulfate	SO4 3.0	SO4	0.1
14.	Calcium	Ca 120.0	Ca	6.0
15.	Magnesium	Mg 170.1	Mg	14.0
16.	Sodium (calculated)	Na 9495.2	Na	413.0
17.	Iron	Fe 3.6		
18.	Barium	Ba 105.0		
19.	Strontium	Sr 0.0		
20.	Total Hardness (CaCO3)	1000.0		

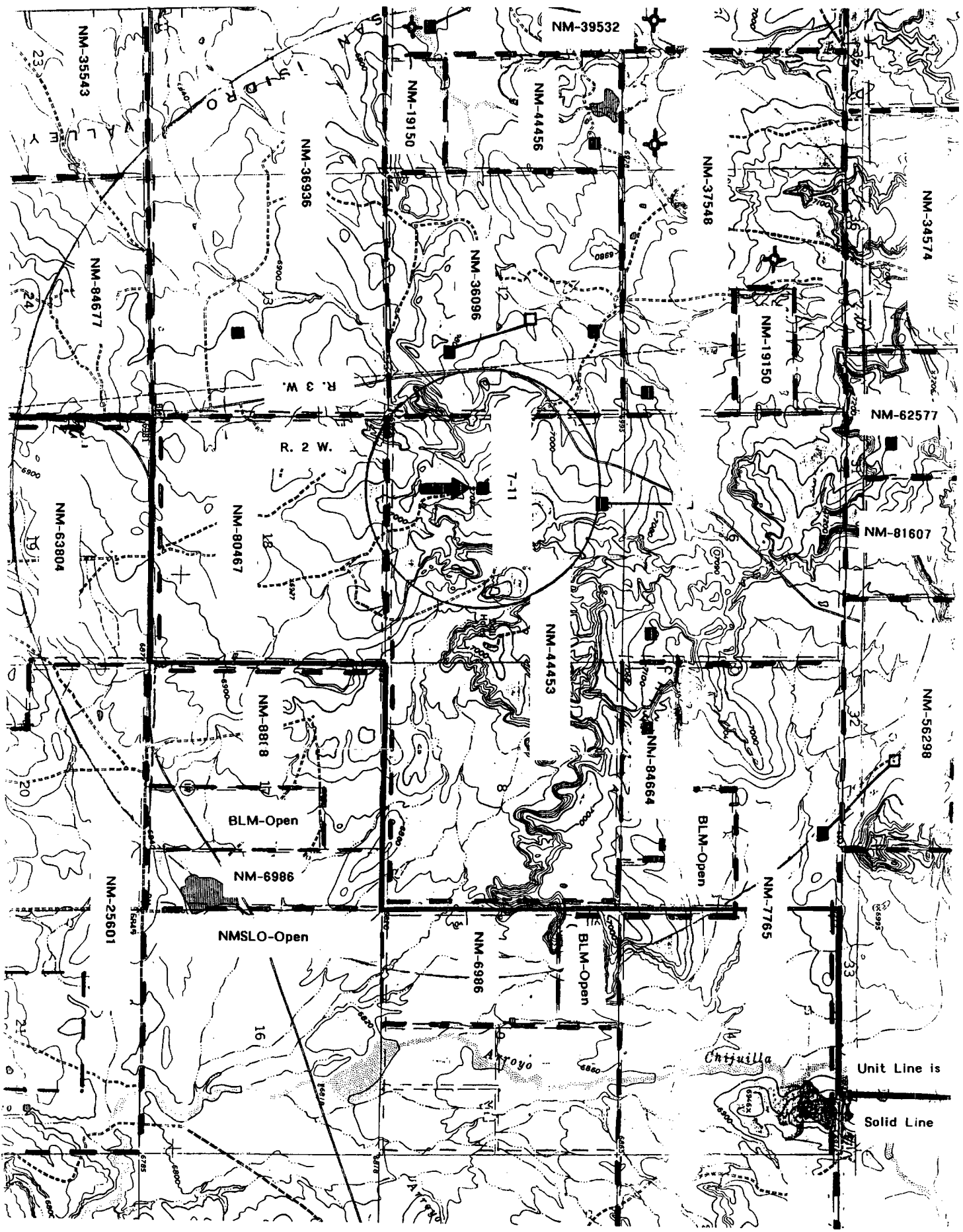
PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt X meq/L		mg/
+-----+				-----			
6	*Ca <-----	*HCO3	10	Ca(HCO3)2	81.0	6.0	486
	/----->			CaSO4	68.1		
14	*Mg ----->	*SO4	0	CaCl2	55.5		
	<----->			Mg(HCO3)2	73.2	3.8	279
413	*Na ----->	*Cl	423	MgSO4	60.2	0.1	4
				MgCl2	47.6	10.1	482
+-----+				NaHCO3	84.0		
Saturation Values Dist. Water 20 C				Na2SO4	71.0		
CaCO3 13 mg/L				NaCl	58.4	413.0	24136
CaSO4 * 2H2O 2090 mg/L							
BaSO4 2.4 mg/L							

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 D. STEWART





NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC NM 87410
(505) 334-6170 FAX: (505) 334-6170
<http://nemrd.state.nm.us/ocd/District11U3district.htm>

MECHANICAL INTEGRITY TEST REPORT

(~~TA~~ or UIC)

Date of Test 9-17-02 Operator Pride Energy API # 30-043-20129

Property Name San-Isidro Well # 7-11 Location: Unit K Sec 7 Twn 20 Rge 2

Land Type:

State _____
Federal X
Private _____
Indian _____

Well Type:

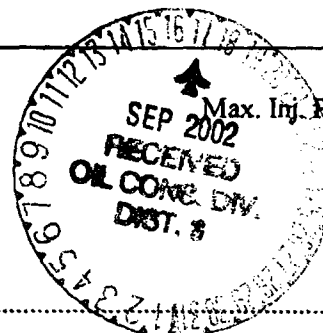
Water Injection _____
Salt Water Disposal X
Gas Injection _____
Producing Oil/Gas _____
Pressure observation _____

Temporarily Abandoned Well (Y/N): _____

TA Expires: _____

Casing Pres. 0
Bradenhead Pres. _____
Tubing Pres. _____
Int. Casing Pres. _____

Tbg. SI Pres. _____
Tbg. Inj. Pres. _____



Max. Inj. Pres. _____

Pressured annulus up to 418 psi. for 30 mins. Test passed/failed

REMARKS:

No BH valve - operator will dig out + contact OCD for test. - Unable to inspect pump facility - operator reported that Murphy kill switch was broken - new one on order to be installed within a couple of days - Anthony Morales will send me a key + I will follow up to determine proper kill setting + operation.

By

John C. Angel - consultant
(Operator Representative)

Witness

Bruce Martin
(NMOCD)

(Position)

REVISED 11-17-98