

Energy Reserves Group, Inc.
P.O. Box 3280
Casper, Wyoming 82601
Phone 307 265 7331



February 15, 1980

Oil Conservation Commission
State of New Mexico
P.O. Box 2088
Sante Fe, New Mexico 87501

Re: Application of Energy Reserves Group, Inc. for permission permitting the disposal of produced water from the Pictured Cliffs Formation into the Mesa Verde Formation, Gallegos Canyon Unit.

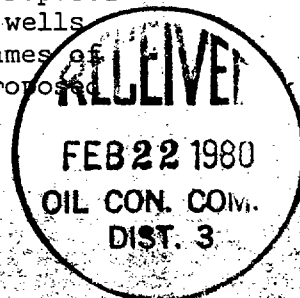
Gentlemen:

Energy Reserves Group, Inc. presents to the Oil Conservation Commission the following applications and requests that administrative approval be granted. The following data is submitted:

- A. Applicant is a working interest owner and the operator of the Gallegos Canyon Unit, West Kutz Pictured Cliffs Field, located in Townships 27,28 and 29 North, Ranges 11,12, and 13 West, San Juan County, New Mexico. Federal Lease Number SF-078904.
- B. The applicant desires to dispose of water produced from the Pictured Cliffs formation from the Gallegos Canyon Unit into the Mesa Verde formation into the wellbore of the following Gallegos Canyon Unit Wells:
Number 260 located 1910' FSL, 745' FEL Sec 15
T28N-R12W, No. 126 located 1980' FWL, 1980' FSL, Sec 23-T28N-R12W and No. 225 located 1620' FNL, 2030' FEL Sec 17-T28N-R12W, San Juan County, New Mexico.

Applicant presents the following in support of the application:

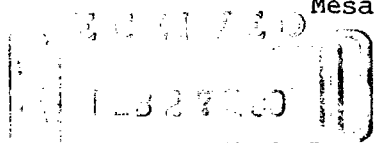
1. Exhibit A-Plat showing the location of the proposed input wells and location of all oil and gas wells including abandoned and dry holes and the names of operators within a two mile radius of the proposed input well.





Oil Conservation Commission
State of New Mexico
Page Two

2. Exhibit B - Water analysis of the Pictured Cliffs water. Approximately 1500 barrels per day will be disposed.
3. It is proposed to inject the produced Pictured Cliffs water into the Mesa Verde formation: in the Gallegos Canyon Unit Number 260 through perforations from 3797'-4030', the Gallegos Canyon unit Number 126 through perforations from 3750'-4115' and in the Gallegos Canyon Unit Number 225, through perforations from 3873'-4128'. Exhibits C, D, and E are the log sections of well numbers 260, 126, and 225 respectively.
4. Exhibit F - Water analysis of the water contained in the Mesa Verde formation.
5. Exhibits G-I - Schematic diagrams of the wellbores of well numbers: 260, 126, 225 and showing all pertinent data.
6. Injection will be through 2-3/8" steel tubing with an injection packer set at about 50 feet above the top of the injection zone. Anticipated maximum injection pressure will be 900 psig in the Mesa Verde wells. The tubing casing annulus will be filled with water containing a corrosion inhibitor, oxygen scavenger and bactericide.
7. Exhibit J - Diagrammatic wellbore sketches of all wells within one half mile radius that penetrate the Mesa Verde formation adjacent to the proposed Mesa Verde injection well number 260.
8. Exhibit K - Diagrammatic wellbore sketches of all wells within one half mile radius that penetrate the Mesa Verde formation adjacent to the proposed Mesa Verde injection well number 126.



OIL CONSERVATION DIVISION
SANTA FE



Oil Conservation Commission
State of New Mexico
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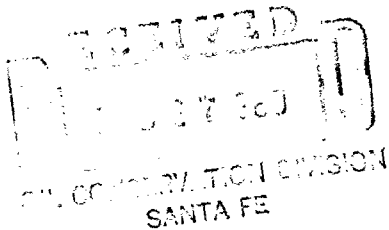
9. Exhibit L - Diagramatic well bore sketches of all wells within one half mile radius that penetrate the Mesa Verde formation adjacent to the proposed Mesa Verde injection well number 225.

Sincerely,

Curtis J. MacIntyre

Curtis J. MacIntyre
Production Engineer

CJM/bac



NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR ENERGY RESERVES GROUP		ADDRESS P.O. BOX 3280 CASPER, WYOMING 82602				
LEASE NAME GALLEGOS CANYON UNIT		WELL NO. 260		FIELD PINION GALLUP		COUNTY SAN JUAN
LOCATION UNIT LETTER <u>J</u> ; WELL IS LOCATED <u>1910</u> FEET FROM THE <u>South</u> LINE AND <u>745</u> FEET FROM THE East LINE, SECTION <u>15</u> TOWNSHIP <u>28N</u> RANGE <u>12W</u> NMPM. San Juan County, NM						
CASING AND TUBING DATA						
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY	
SURFACE CASING	8-5/8"	262'	150	Surface	Circulated	
INTERMEDIATE						
LONG STRING	4-1/2"	5,679'	1600	Surface	Circulated	
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER			
NAME OF PROPOSED INJECTION FORMATION Mesa Verde			TOP OF FORMATION 3050'		BOTTOM OF FORMATION 4070'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLE? Perforations		PROPOSED INTERVAL(S) OF INJECTION 3797-3830, 3860-3900, 3980-4030		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? NO		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Gallup Production			HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? YES	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH Gallup 5560'-72' Squeezed w/20sx@5504', 15sx@4340', 15sx@3168' 20sx@2532' 20sx@1714' 20sx@264'						
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 100'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 1645'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 6,000'		
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 200	MAXIMUM 700	OPEN OR CLOSED TYPE SYSTEM open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure		APPROX. PRESSURE (PSI) 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? YES	
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) Federal						
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Amoco Production Company - Security Life Building, Denver, Colorado 80202						
RECEIVED FEB 17 1980 OIL CONSERVATION COMMISSION						
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? YES		SURFACE SURVEY YES		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL YES		
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) YES		PLAT OF AREA YES		ELECTRICAL LOG YES		DIAGRAMMATIC SKETCH OF WELL YES

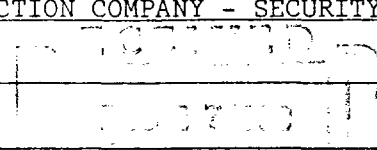
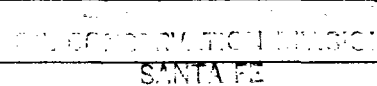
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Curtis J. Mac Intyre
(Signature)Production Engineer
(Title)February 15, 1980
(Date)

NOTE: Should waivers from the surface owner and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR ENERGY RESERVES GROUP, INC		ADDRESS P.O. BOX 3280 CASPER, WYOMING 82602	
LEASE NAME GALLEGOS CANYON UNIT	WELL NO. 126	FIELD UNDESIGNATED GALLUP	COUNTY SAN JUAN
LOCATION UNIT LETTER <u>K</u> ; WELL IS LOCATED <u>1980</u> FEET FROM THE <u>SOUTH</u> LINE AND <u>1980</u> FEET FROM THE <u>WEST</u> LINE, SECTION <u>23</u> TOWNSHIP <u>28N</u> RANGE <u>12W</u> NMPM. <u>SAN JUAN CO., NEW MEXICO</u>			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	207	190	Surface	Circulated
INTERMEDIATE					
LONG STRING	4-1/2"	5674	350	1000'	Calculated
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
NAME OF PROPOSED INJECTION FORMATION MESA VERDE			TOP OF FORMATION 2520'		BOTTOM OF FORMATION 4308'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 3750-65, 3775-3815, 3838-58, 4040-4115		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? NO		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? GALLUP PRODUCTION		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? YES	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH GALLUP 5581'-85', 5591'-95' WELL IS CURRENTLY TA'D					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 100'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 1765'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 6000'	
ANTICIPATED DAILY INJECTION VOLUME (BBL'S.) 200	MINIMUM 200	MAXIMUM 700	OPEN OR CLOSED TYPE SYSTEM OPEN	IS INJECTION TO BE BY GRAVITY OR PRESSURE? PRESSURE	APPROX. PRESSURE (PSI) 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE			WATER TO BE DISPOSED OF YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? YES
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) FEDERAL					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL AMOCO PRODUCTION COMPANY - SECURITY LIFE BUILDING- DENVER, COLORADO 80202					
					
					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? YES		SURFACE OWNER YES		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL YES	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) YES		PLAT OF AREA YES		ELECTRICAL LOG YES	
				DIAGRAMMATIC SKETCH OF WELL YES	

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

Curtis J. Mac Intyre
(Signature)

Production Engineer
(Title)

February 15, 1980
(Date)

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NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR ENERGY RESERVES GROUP, INC.		ADDRESS P.O. BOX 3280 CASPER, WYOMING 82602			
LEASE NAME GALLEGOS CANYON UNIT	WELL NO. 225	FIELD BASIN DAKOTA		COUNTY SAN JUAN	
LOCATION UNIT LETTER <u>G</u> ; WELL IS LOCATED <u>1620</u> FEET FROM THE <u>NORTH</u> LINE AND <u>2030</u> FEET FROM THE <u>EAST</u> LINE, SECTION <u>17</u> TOWNSHIP <u>28N</u> RANGE <u>12W</u> NMPM. <u>SAN JUAN COUNTY, NM</u>					
CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	351'	215	Surface	Circulated
INTERMEDIATE					
LONG STRING	4-1/2"	6108'	1400	Surface	Circulated
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
NAME OF PROPOSED INJECTION FORMATION MESA VERDE			TOP OF FORMATION 2965'		BOTTOM OF FORMATION 4150'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? TUBING		PERFORATIONS OR OPEN HOLE? PERFORATIONS	PROPOSED INTERVAL(S) OF INJECTION 3873-3950, 4060-4128		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? NO		IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? DAKOTA PRODUCTION		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? YES	
LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH DAKOTA 6002'-10', 6022'-32', 5920'-34' Plugged w/40sx 5700'-6075' & 5sx Surface - 50'					
DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 100'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 1600'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 5500'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 200	MAXIMUM 700	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 500
ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE -			WATER TO BE DISPOSED OF YES	NATURAL WATER IN DISPOSAL ZONE YES	ARE WATER ANALYSES ATTACHED? YES
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) NAVAJO TRIBAL					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL AMOCO PRODUCTION COMPANY - SECURITY LIFE BUILDING - DENVER COLORADO 80202 SUN OIL COMPANY - BOX 35567 - TULSA, OKLAHOMA 74135					
SANTA FE					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER YES		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL YES	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA YES		ELECTRICAL LOG YES	
				DIAGRAMMATIC SKETCH OF WELL YES	

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

Curtis J. MacIntyre
(Signature)Production Engineer
(Title)February 15, 1980
(Date)

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GCU #126

OIL CONSERVATION COMMISSION
Ortiz DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE February 26, 1980

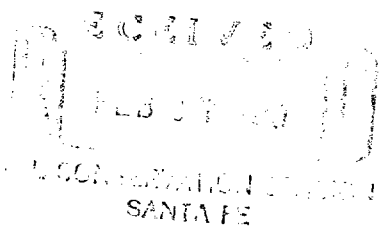
RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed SWD X _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application dated February 15, 1980
for the Energy Reserve Group Salt Lake Canyon Unit #126 K-238-12
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve



Yours very truly,

Frank E. Carey

san juan testing laboratory, inc.

909 WEST APACHE • P. O. BOX 2079 • FARMINGTON, NEW MEXICO

PHONE:

327-9944

EXHIBIT B

Date October 6, 1976

Report to Energy Reserves Group, Inc.
Requested by T.C. Durham Sampled by Energy Reserves Group Personnel
Project GCU #123 Location Farmington, New Mexico
Source of Material Geological Formations Association, with GCU #123 - Pictured Cliffs

Lob No. 22419 Water Analysis for Petroleum Engineering

TEST RESULTS

WATER ANALYSIS FOR PETROLEUM ENGINEERING

Constituent:

Total Solids	52,745ppm or 5.3% Salt Solu.
PH	6.8
Sp. Gravity	1.043 @ 72°F
Resistivity	0.113 ohms/meter @ 72°F
Conductivity	88,472 Micromhos/cm.
Organic Sulfides Present	

Constituents:

<u>Cations</u>	<u>Meq/L</u>	<u>ppm</u>
Sodium	831	19,113
Calcium	48	960
Magnesium	24	287
Iron	neg.	1**
Barium	0	0

Hypothetical Combinations

<u>Constituent</u>	<u>ppm</u>
Sodium Chloride	48,580
Calcium Chloride	2,657
Magnesium Chloride	585
Magnesium Bicarbonate	918

Anions

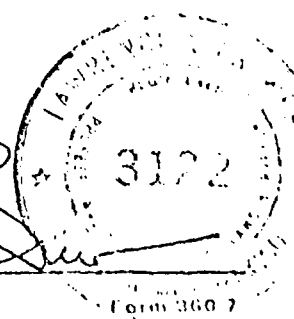
Chloride	890	31,600
Bicarbonate	13	780
Sulphate	neg.	4
Carbonate	0	0
Hydroxide	0	0

** In addition, a trace of iron hydroxide was present as a brown sediment.

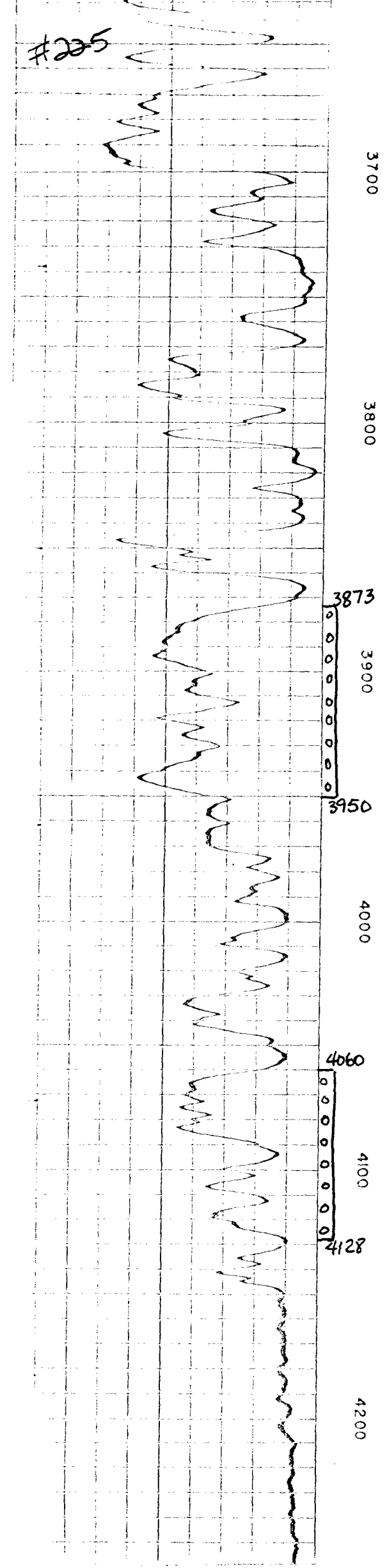
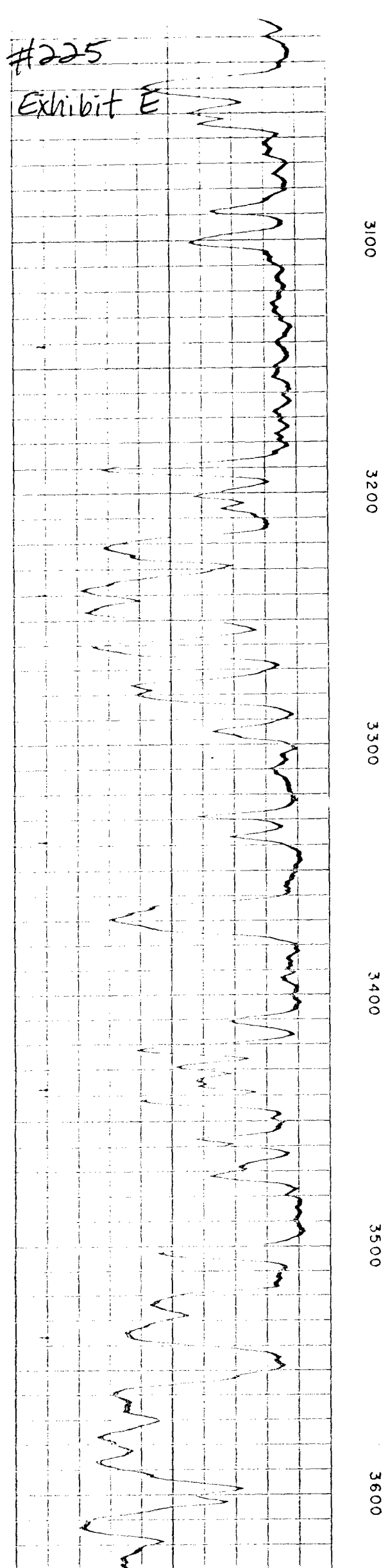
Copies to Energy Reserves Group, Inc. (2)
Box 3280 Casper, Wyoming
Energy Reserves Group, Inc. (1)
Box 977 Farmington, New Mexico

Certified by:

TEST NO. 20030



#225
Exhibit E



3873

3900

3950

4000

4060

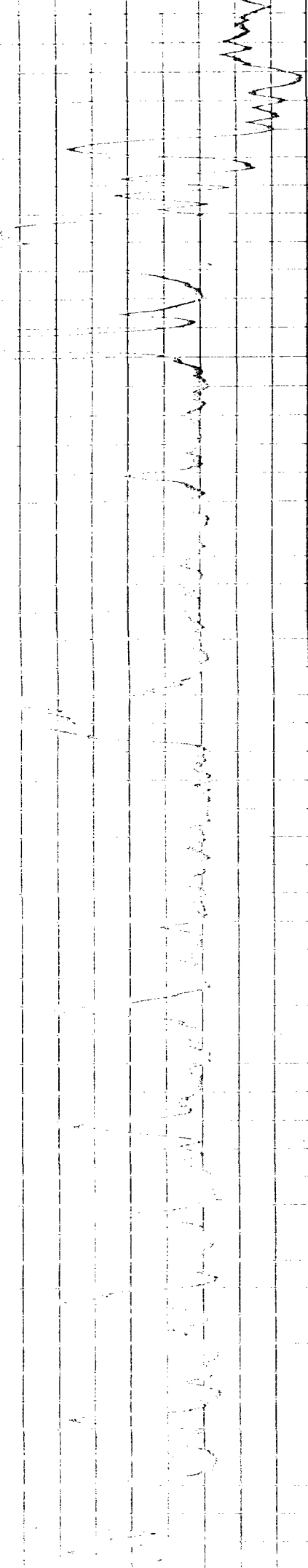
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4128

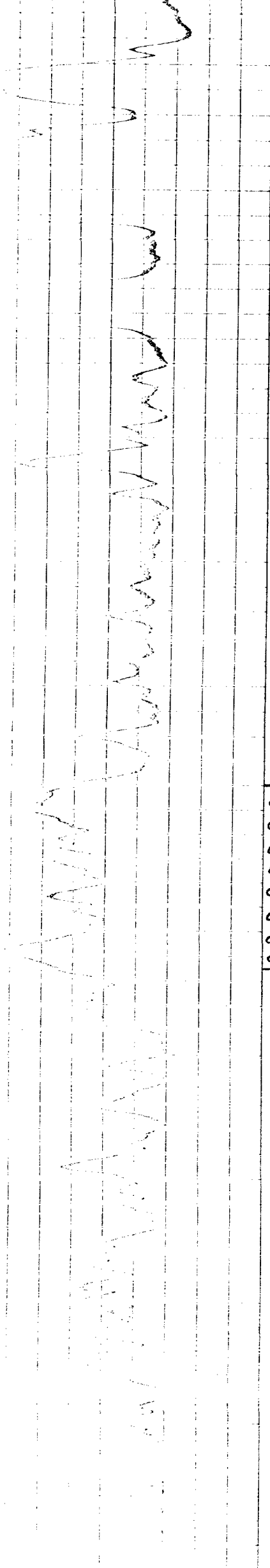
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#126

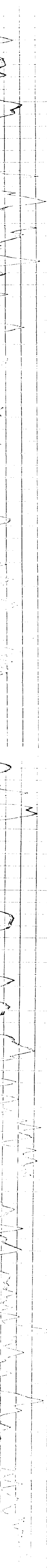
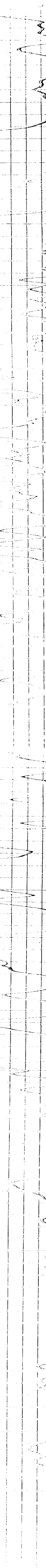
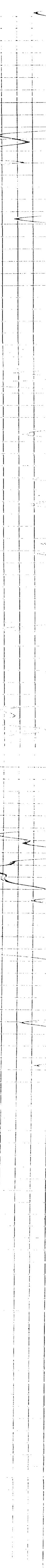
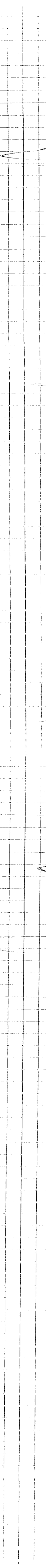
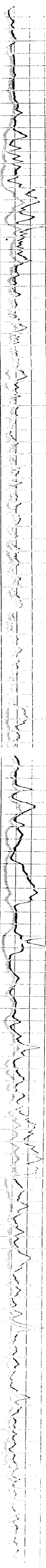
Exhibit D



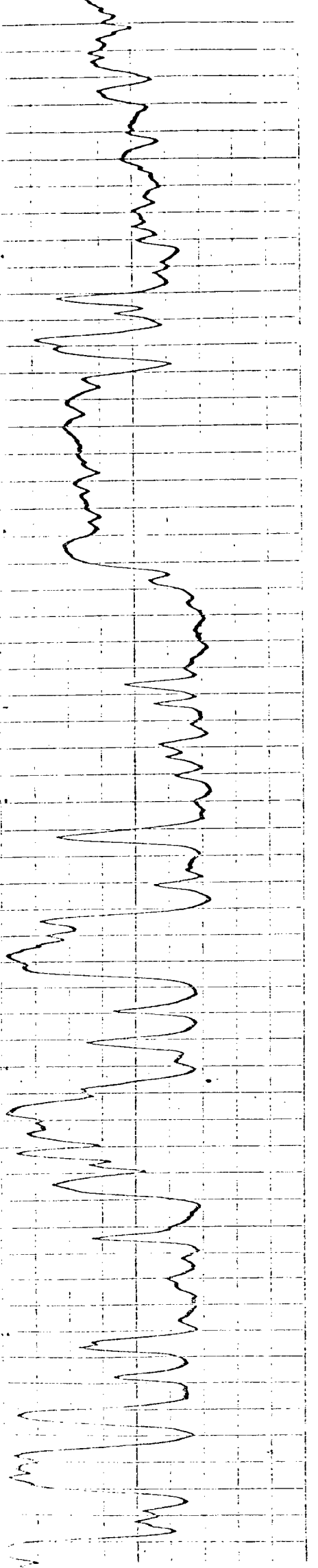
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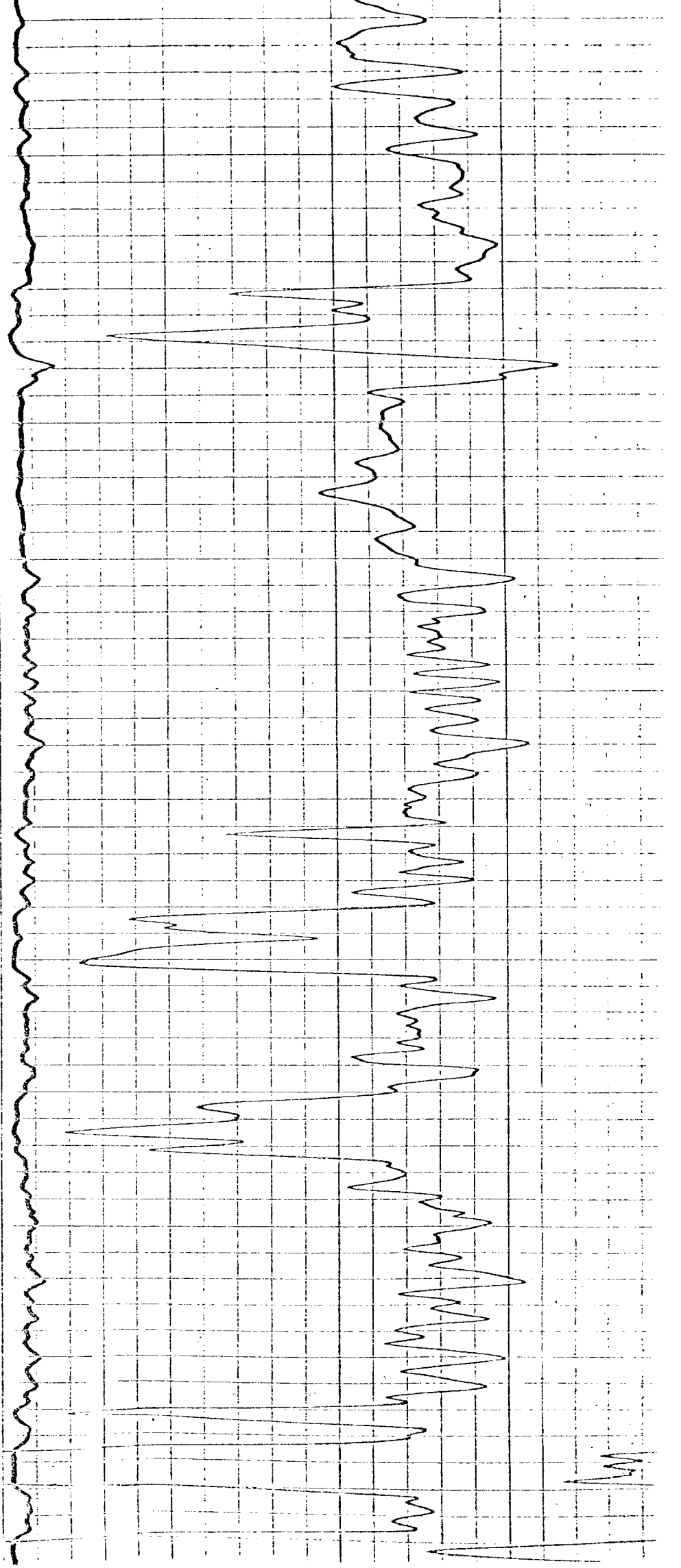
3100 3200 3300 3400 3500 3600 3700 3750 3765 3775 3800 3815 3838 3858 3900 4000 4040 4100 4115 4200 4300



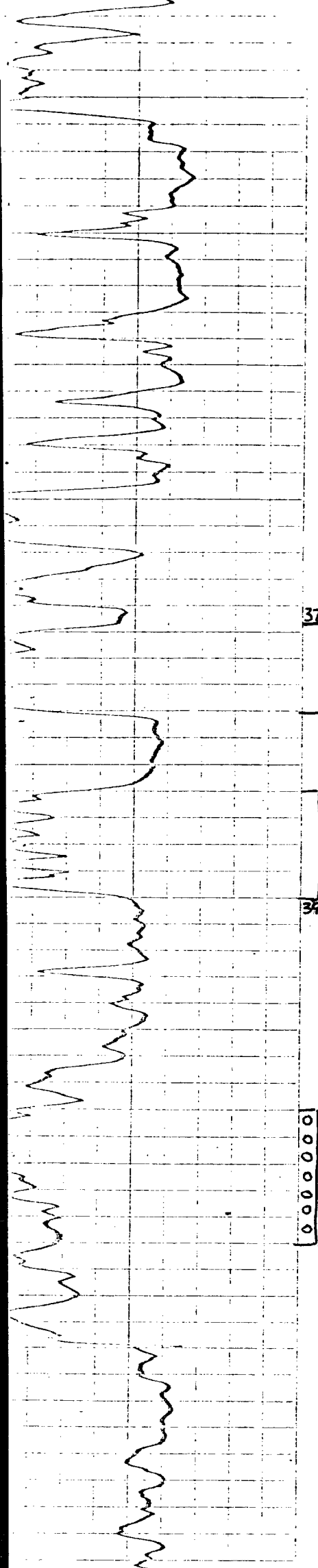
#260 Exhibit C



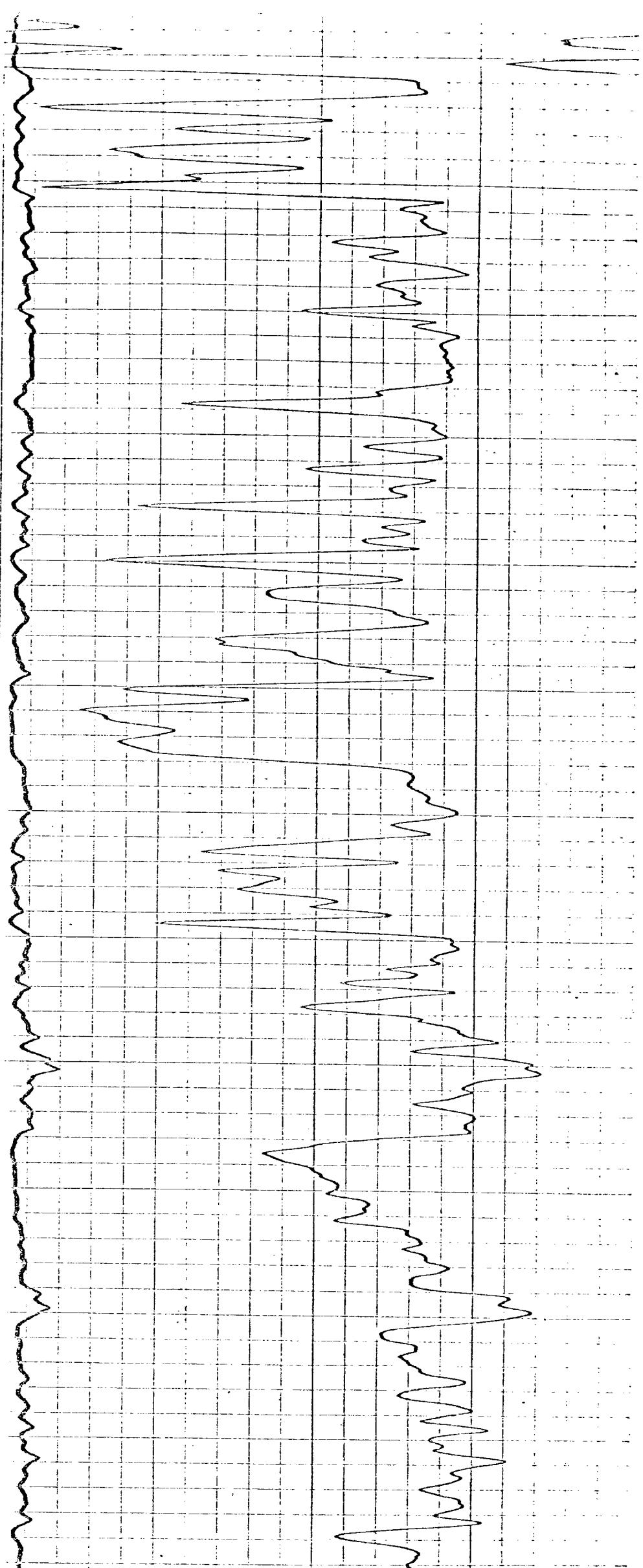
3000 3100 3200 3300 3400 3500



#260



3797 3830 3860 3900 3980 4000 4030 4100





BAROID DIVISION
N L Industries, Inc.
P.O. Box 1675 Houston, Texas 77001

WATER ANALYSIS TEST REPORT

BAROID TREATING CHEMICALS

- EXHIBIT F -

RECEIVED

SHEET NUMBER

COMPANY Energy Reserves		DATE 6-10-77	
FIELD BASIN DAKOTA		COUNTY OR PARISH SAN JUAN	STATE N MEXICO
LEASE OR UNIT King Gas Comm.		WELL(S) NAME OR NO. #1	WATER SOURCE (FORMATION) MESAVERDE - CLIFFHOUSE
DEPTH, FT.	BHT, F	SAMPLE SOURCE	TEMP, F
TYPE OF OIL		API GRAVITY 0	TYPE OF WATER ☒ PRODUCED WATER ☐ INJECTION WATER OTHER

WATER ANALYSIS PATTERN
(NUMBER BESIDE ION SYMBOL INDICATES mg/l * SCALE UNIT)

Na ⁺ 20	15	10	5	0	5	10	15	20 Cl ⁻
Ca ⁺⁺								HCO ₃ ⁻
Mg ⁺⁺								SO ₄ ⁼
Fe ⁺⁺⁺								CO ₃ ⁼

DISSOLVED SOLIDS

CATIONS

Total Hardness
Sodium, Na⁺ (calc.)
Calcium, Ca⁺⁺
Magnesium, Mg⁺⁺
Iron (Total), Fe⁺⁺⁺

me/l *

8
2
6

mg/l *

39,139
12,984
40
73
1.9

ANIONS

Chloride, Cl⁻
Sulfate, SO₄⁼
Carbonate, CO₃⁼
Bicarbonate, HCO₃⁻
Hydroxyl, OH⁻
Sulfide, S⁼
Phosphate - Meta, PO₃⁼
Phosphate - Ortho, PO₄⁼

298.6

1.9

40

232

10,600

90

1,200

14,152

-0-

DISSOLVED GASES

Hydrogen Sulfide, H₂S
Carbon Dioxide, CO₂
Oxygen, O₂

mg/l *
mg/l *
mg/l *

PHYSICAL PROPERTIES

pH **8.4**
Eh (Redox Potential) _____ MV
Specific Gravity _____
Turbidity, JTU Units _____
Total Dissolved Solids (Calc.) _____ mg/l *
Stability Index @ _____ F _____
CaSO₄ Solubility @ _____ F _____ mg/l *
Max. CaSO₄ Possible (Calc.) _____ mg/l *
Max. BaSO₄ Possible (Calc.) _____ mg/l *
Residual Hydrocarbons _____ ppm (Vol/Vol)

SUSPENDED SOLIDS (QUALITATIVE)

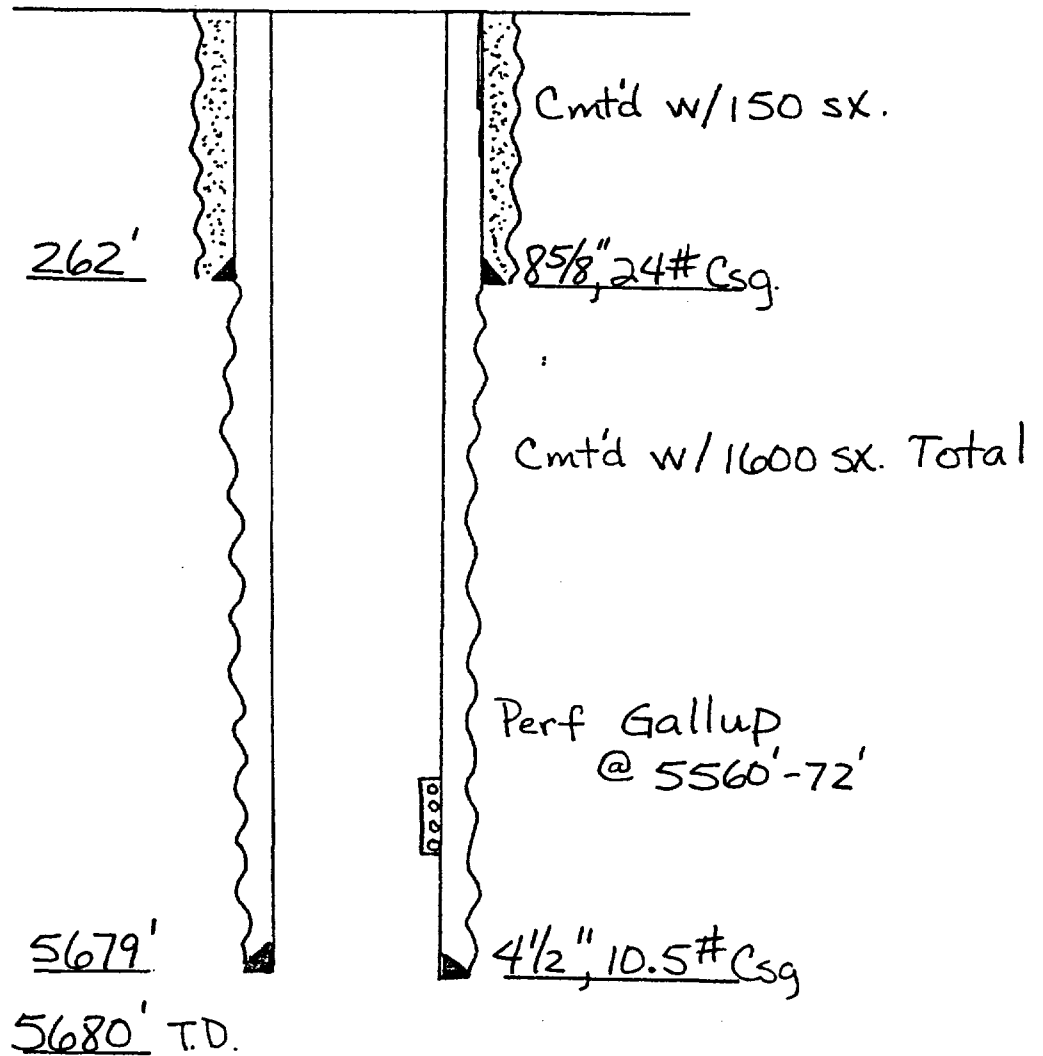
Iron Sulfide ☐ Iron Oxide ☐ Calcium Carbonate ☐ Acid Insoluble ☐

REMARKS AND RECOMMENDATIONS:

* NOTE: me/l and mg/l are commonly used interchangeably for epm and ppm respectively. Where epm and ppm are used, corrections should be made for specific gravity.

BTC ENGINEER Max Woolery	DIST. NO.	ADDRESS Farmington, NM	OFFICE PHONE 375-9701	HOME PHONE
TESTED BY Woolery	DATE 6-10-77	DISTRIBUTION ☐ CUSTOMER ☐ AREA OR ☐ DISTRICT OFFICE ☐ BTC ENGINEER OR ☐ BTC LAB ☐ BTC SALES SUPERVISOR		

EXHIBIT G
Amoco Gallegos Canyon Unit Well No. 260
NE SE Sec 15-T28N-R12W
San Juan County, New Mexico
Pinion Gallup



Plugged w/ 20 sx @ 5504',
15 sx @ 4340',
15 sx @ 3168',
20 sx @ 2532',
20 sx @ 1714',
20 sx @ 264' to surface

Exhibit H
ERG Gallegos Canyon Unit Well No. 126
NE SW Sec 23-T28N-R12W
San Juan County, New Mexico
Undesignated Gallup

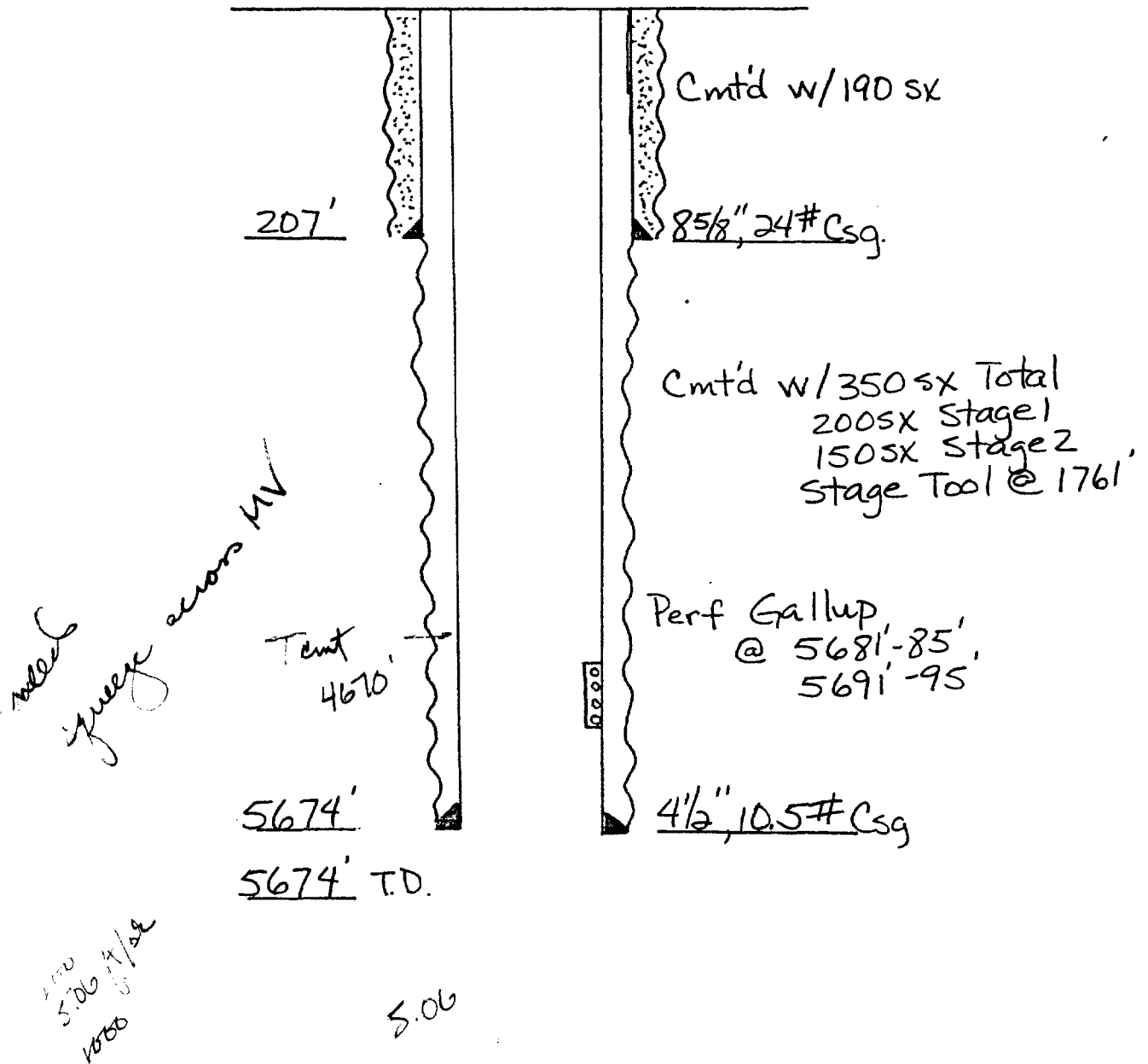
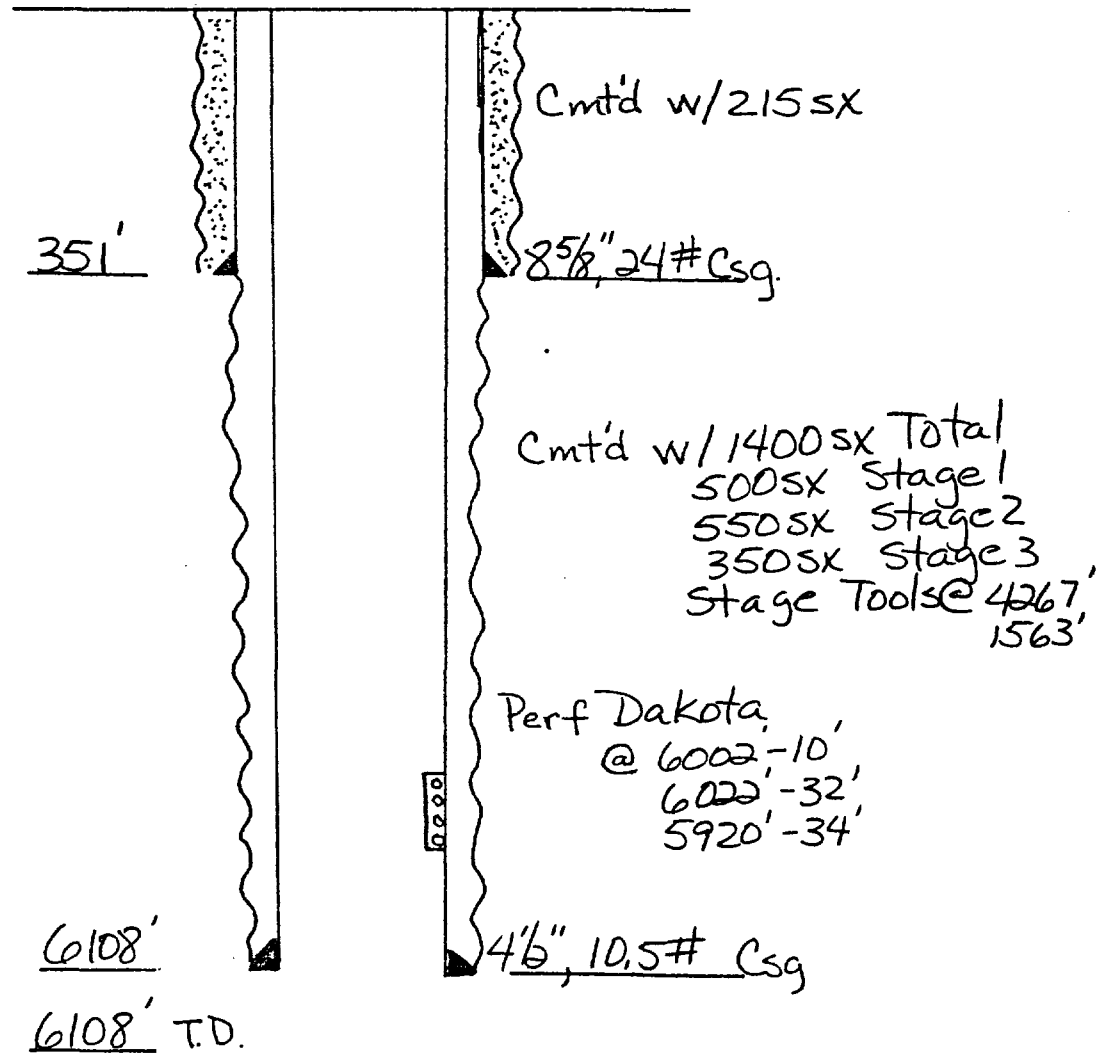


Exhibit I
Amoco Gallegos Canyon Unit Well No. 225
SWNE Sec 17-T28N-R12W
San Juan County, New Mexico
Basin Dakota



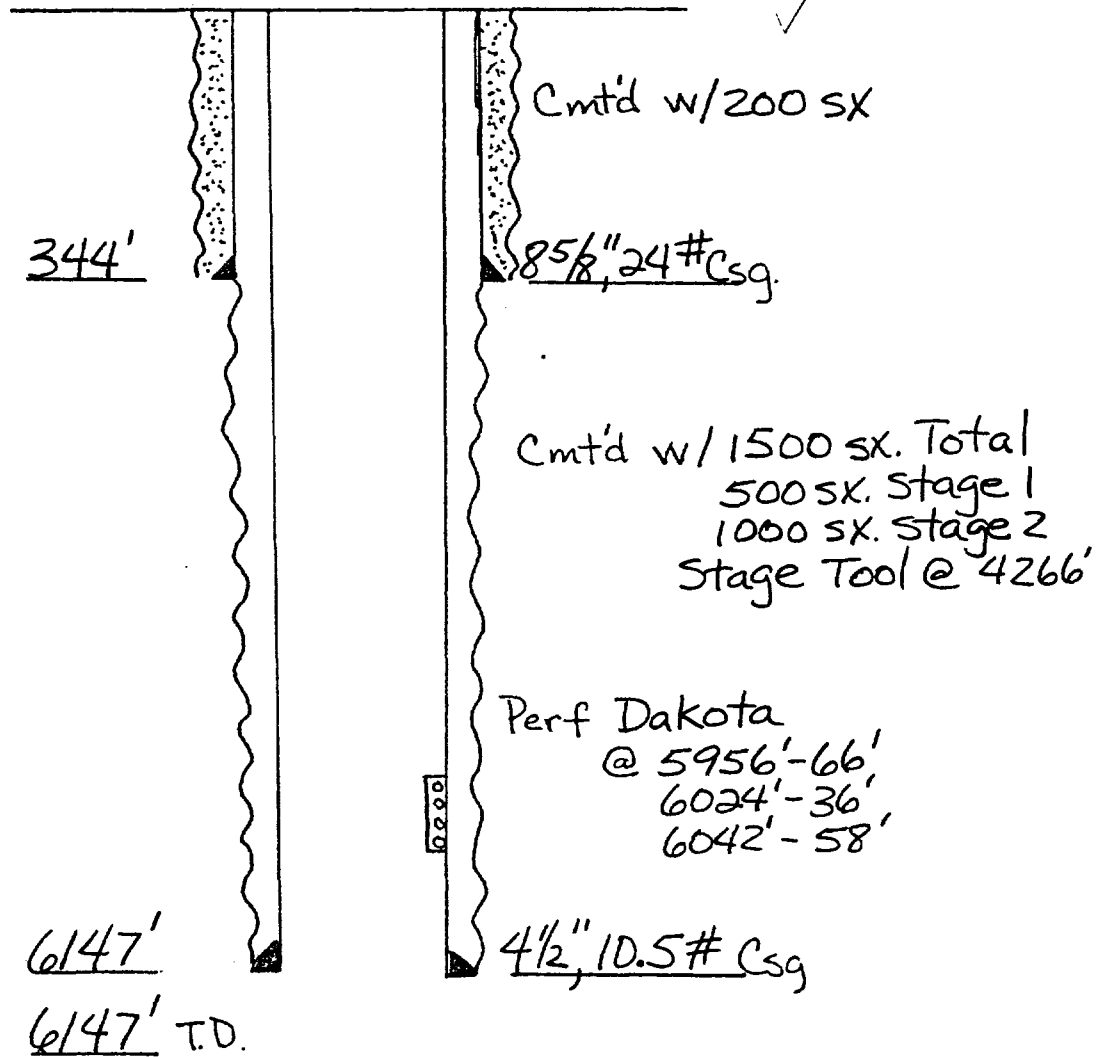
Plugged w/ 40sx @ 6075'-5700'
5sx @ 50' - surface



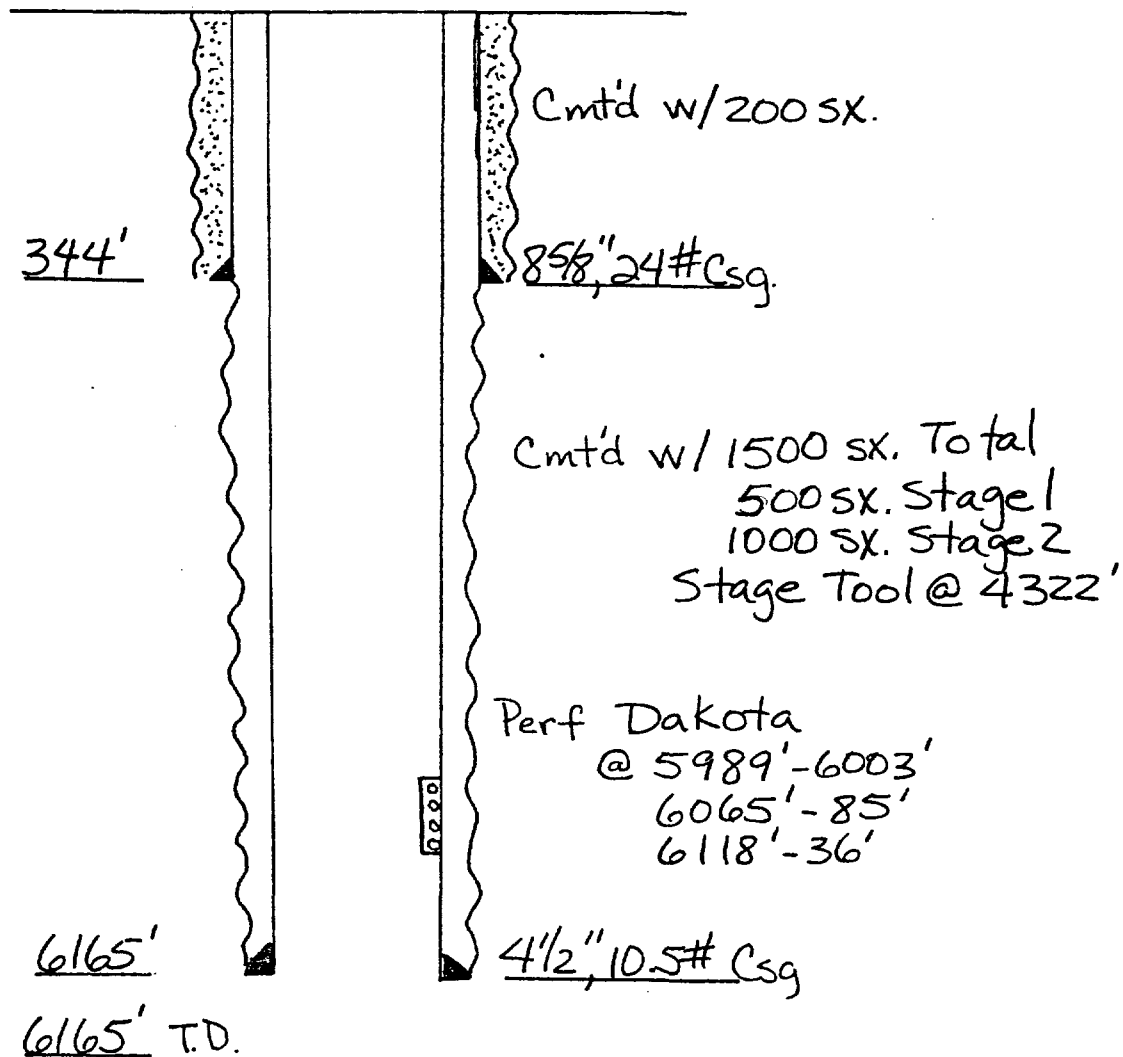
EXHIBIT J

WELLS ADJACENT TO WELL NUMBER 260

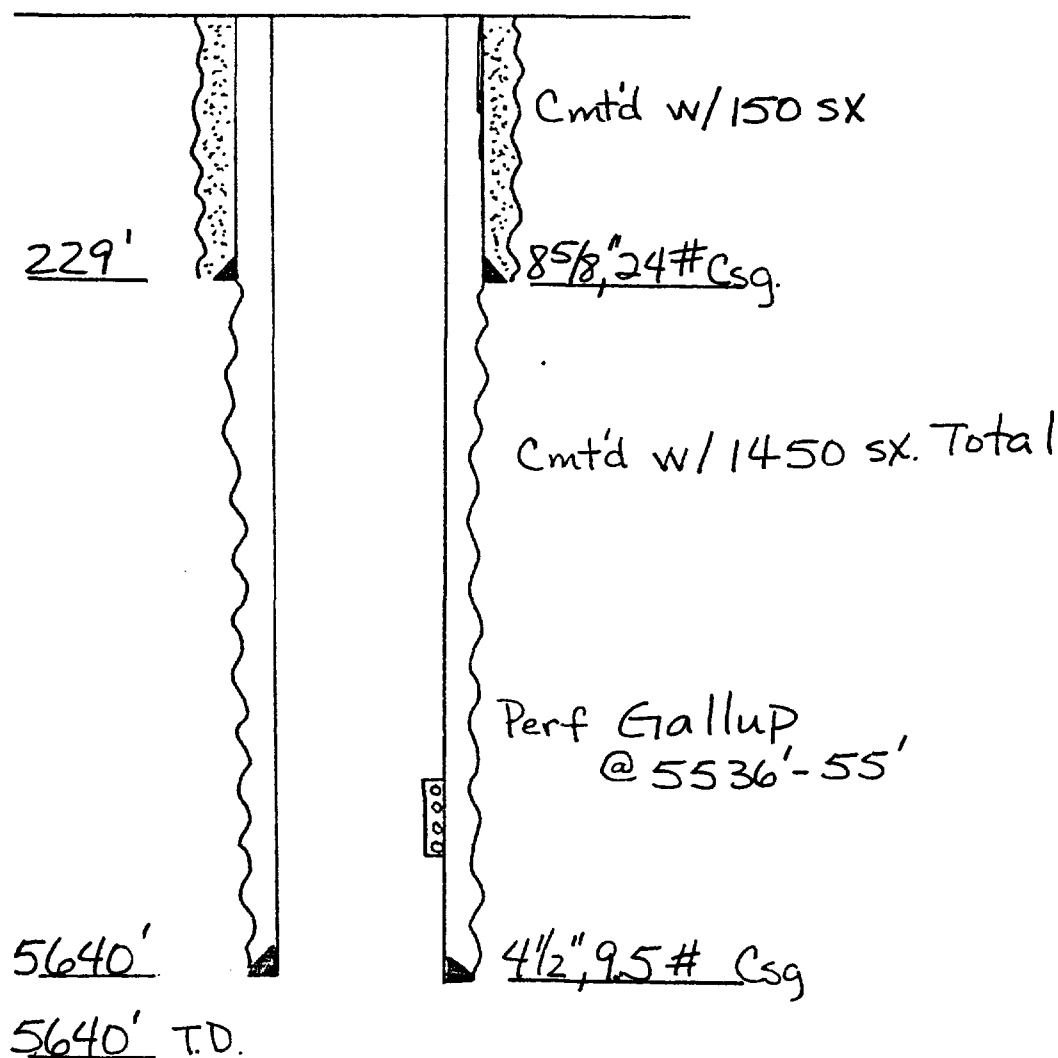
Amoco Gallegos Canyon Unit Well No. 209
NE SW Sec 15 - T28N - R12W
San Juan County, New Mexico
Basin Dakota



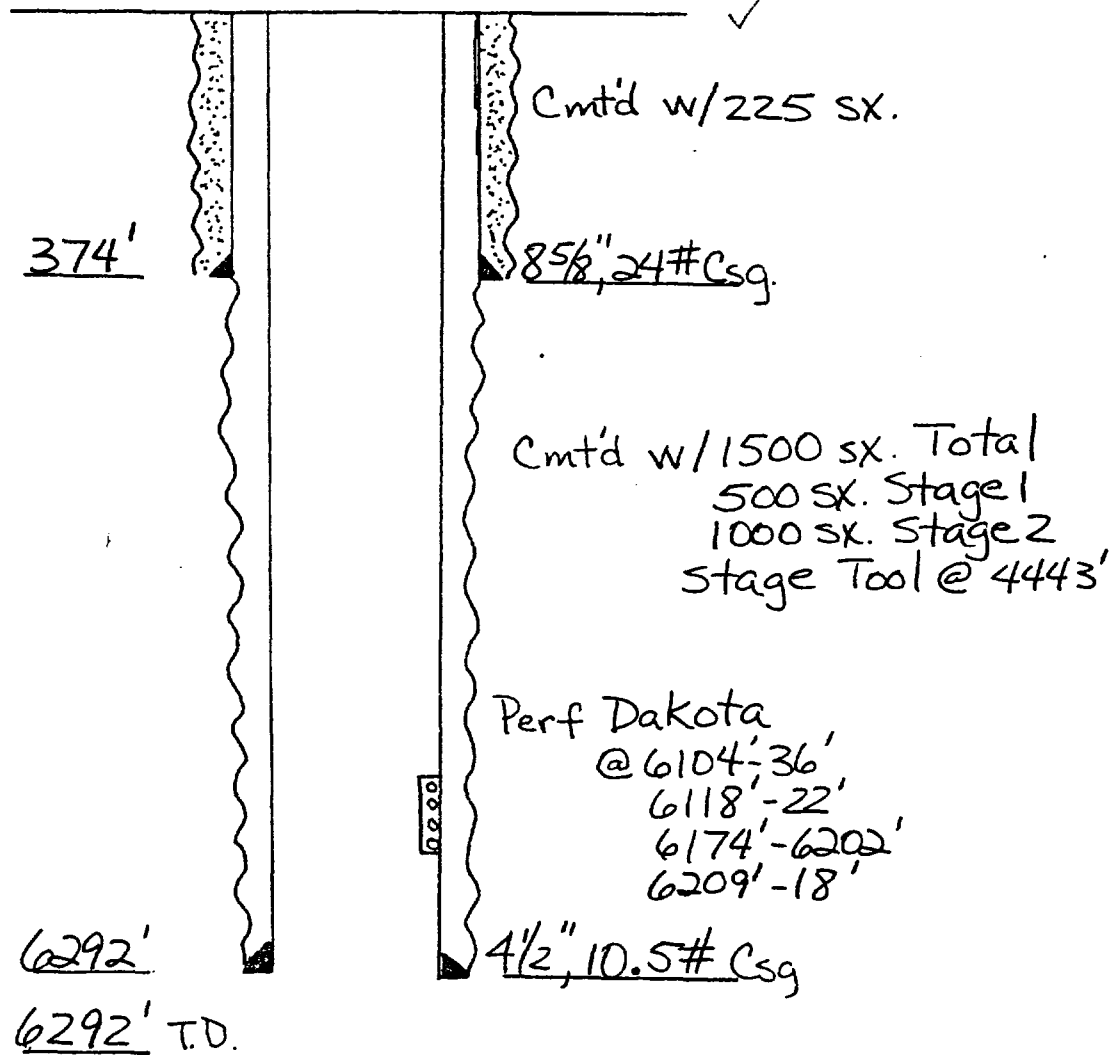
Amoco Gallegos Canyon Unit Well No. 208
SENE Sec 15-T28N-R12W
San Juan County, New Mexico
Basin Dakota



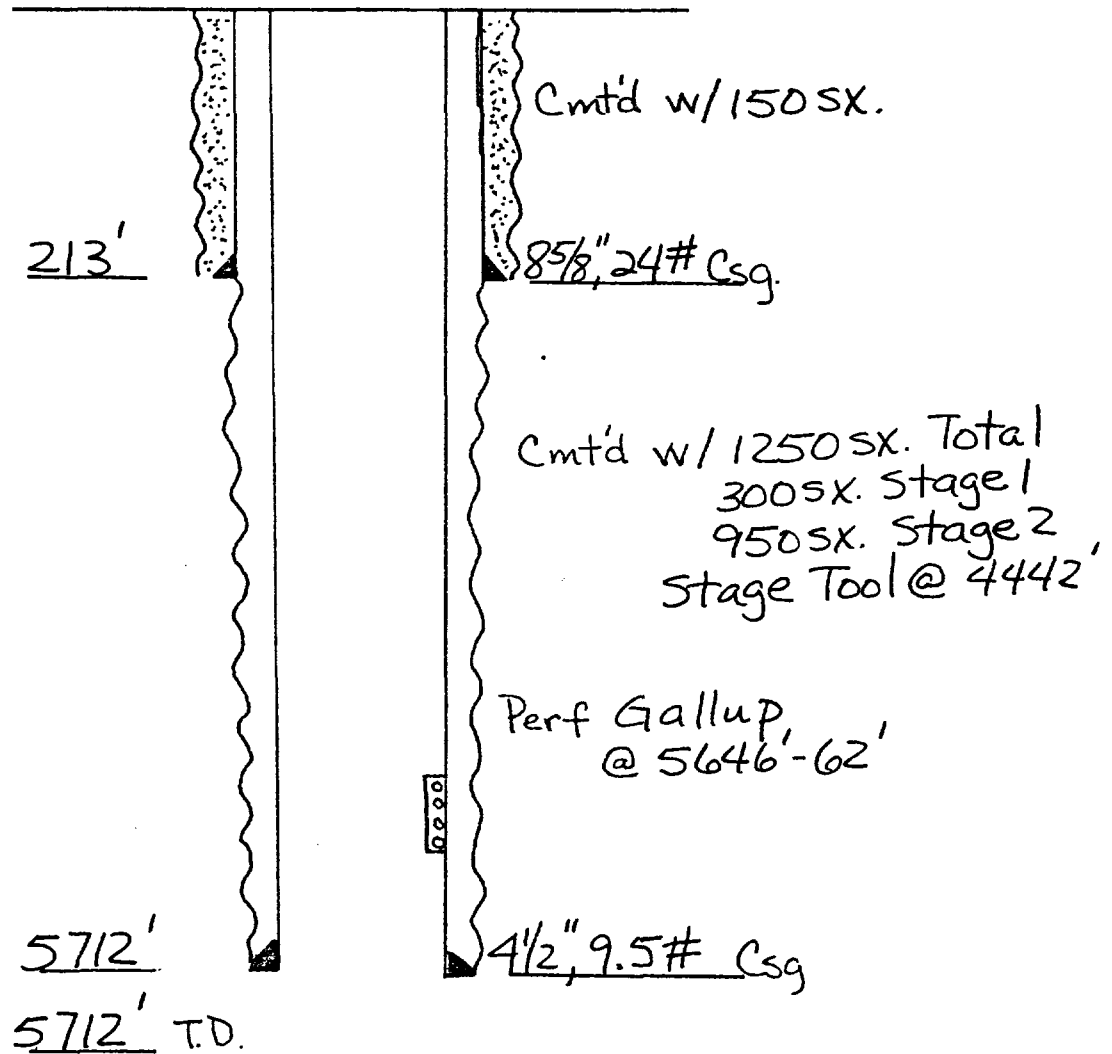
Amoco Gallegos Canyon Unit Well No. 252
NENE Sec 15-T28N-R12W
San Juan County, New Mexico
Undesignated Gallup



Amoco Gallegos Canyon Unit Well No. 216
SESW Sec 14-T28N-R12W
San Juan County, New Mexico
Basin Dakota



Amoco Gallegos Canyon Unit Well No. 250
SESW Sec 14-T28N-R12W
San Juan County, New Mexico
Undesignated Gallup



Amoco Gallegos Canyon Unit Well No. 218
NENE Sec 22-T28N-R12W
San Juan County, New Mexico
Basin Dakota

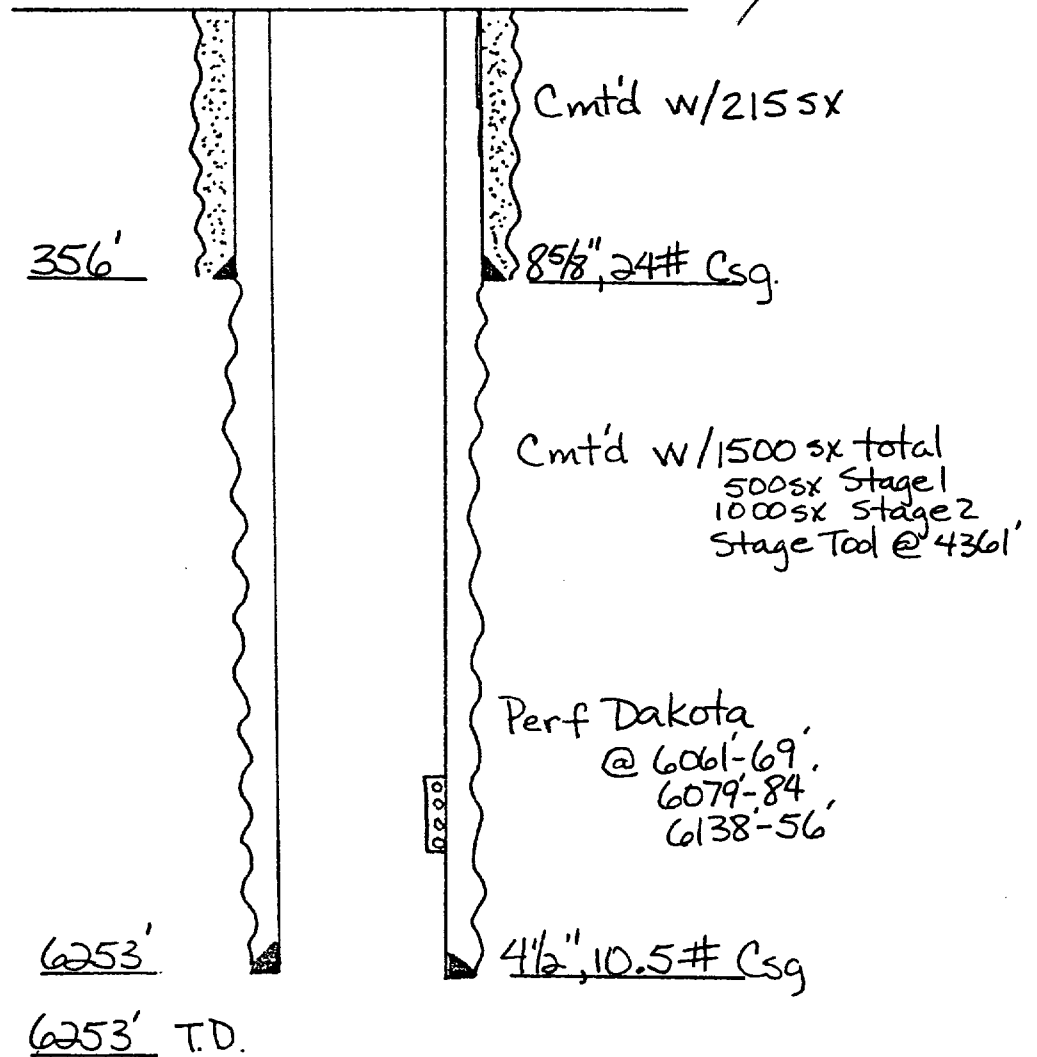




EXHIBIT K

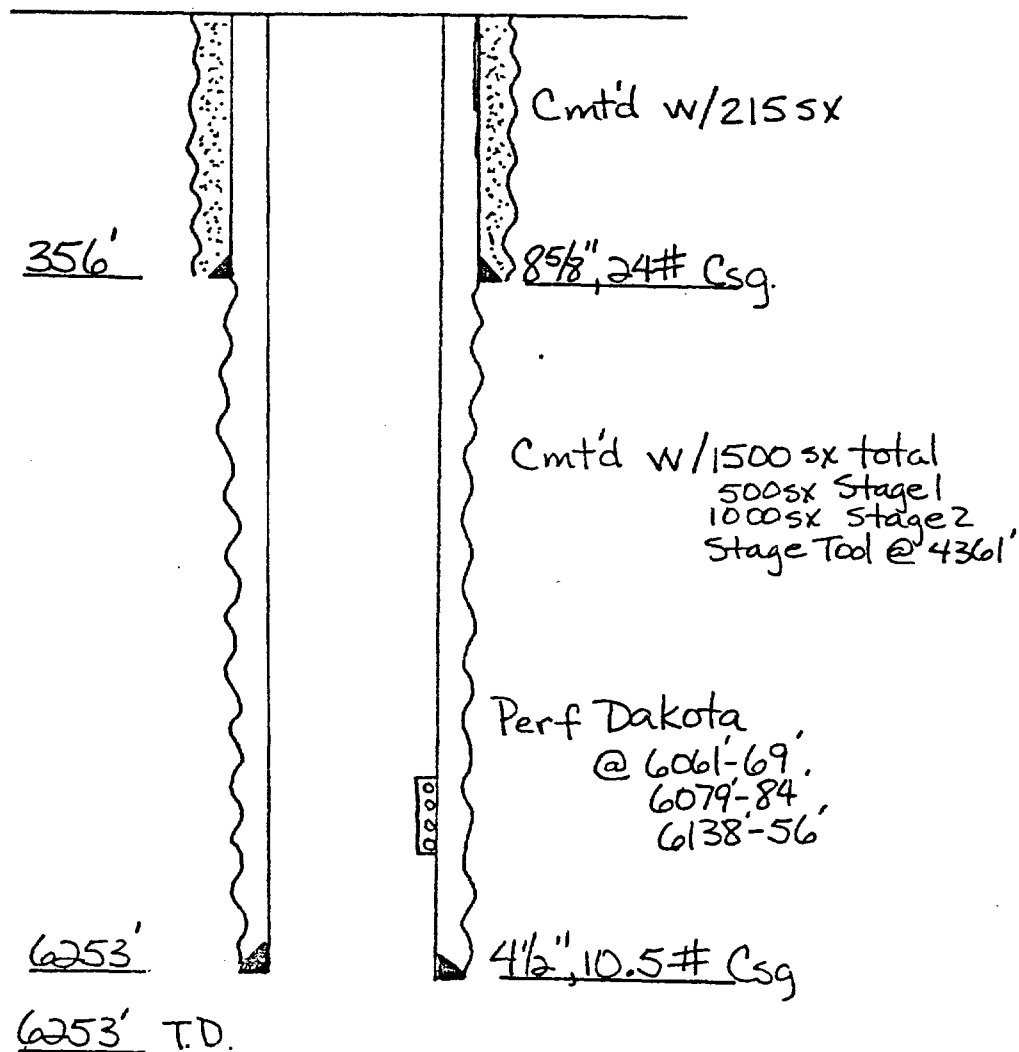
WELLS ADJACENT TO WELL NUMBER 126

Amoco Gallegos Canyon Unit Well No. 218

NENE Sec 22-T28N-R12W

San Juan County, New Mexico

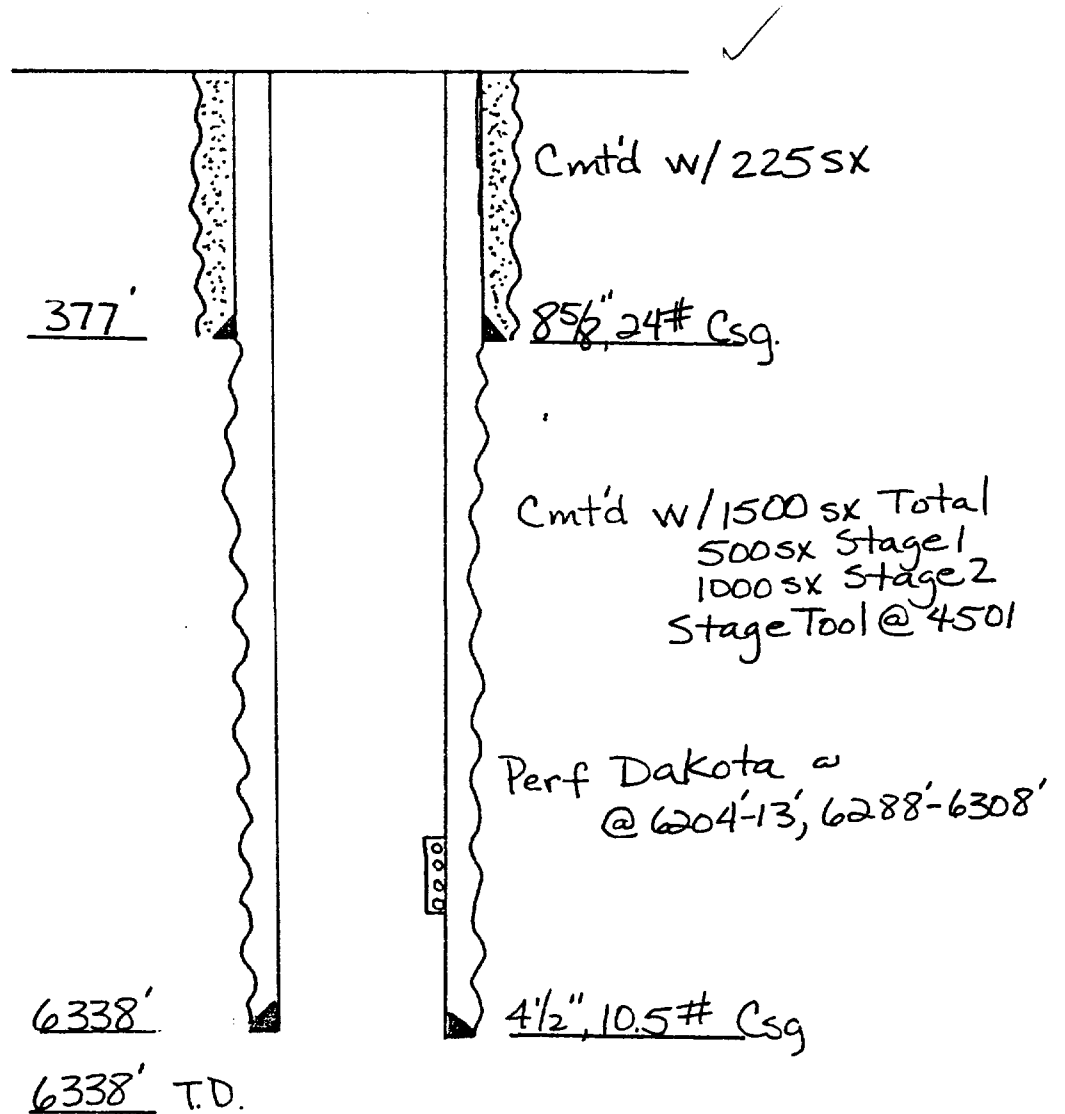
Basin Dakota



Amoco Gallegos Canyon Unit Well No. 219

NENE Sec 23-T28N-R12W

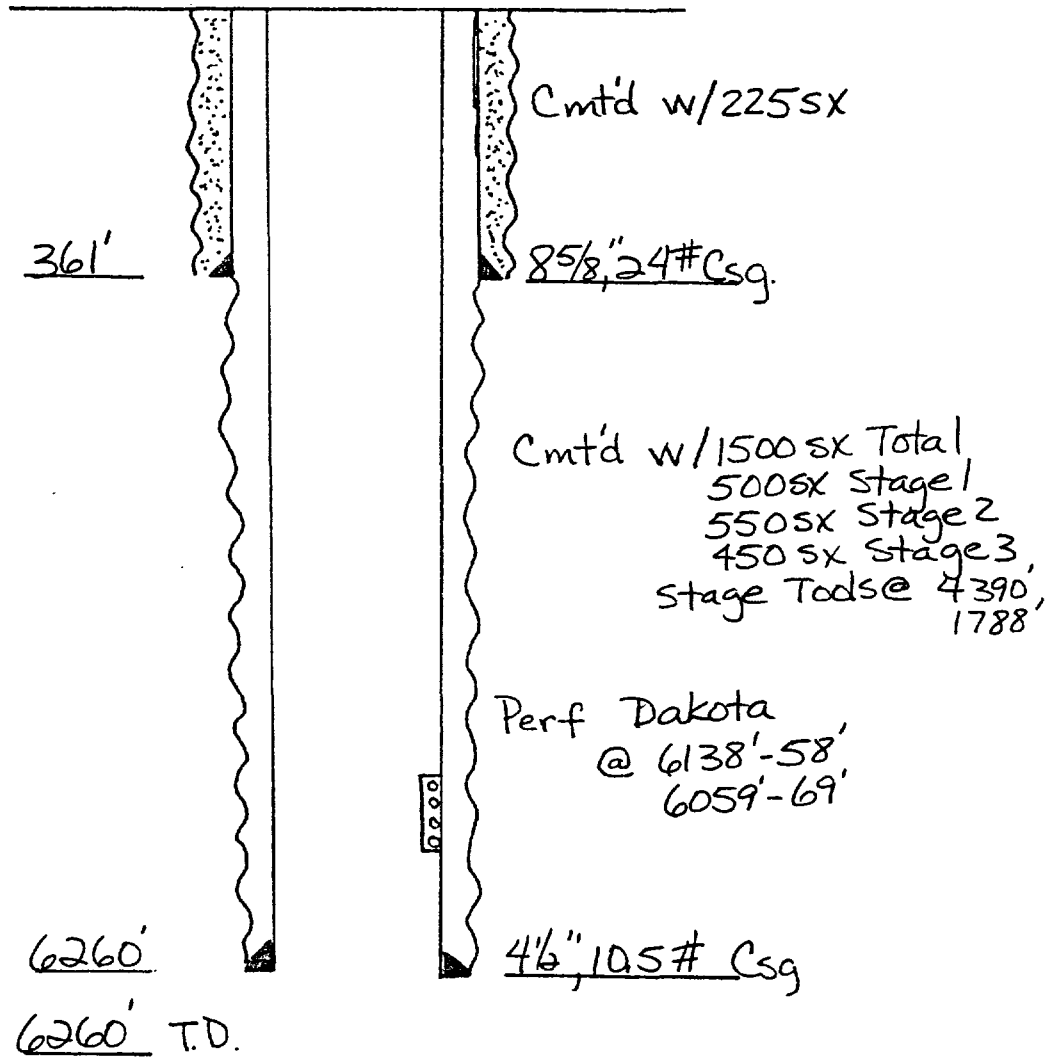
San Juan County, New Mexico
Basin Dakota



Amoco Gallegos Canyon Unit Well No. 230

SWSW Sec 23-T28N-R12W

San Juan County, New Mexico
Basin Dakota



San Juan County, New Mexico
Undesignated Gallup
Undesignated Dakota

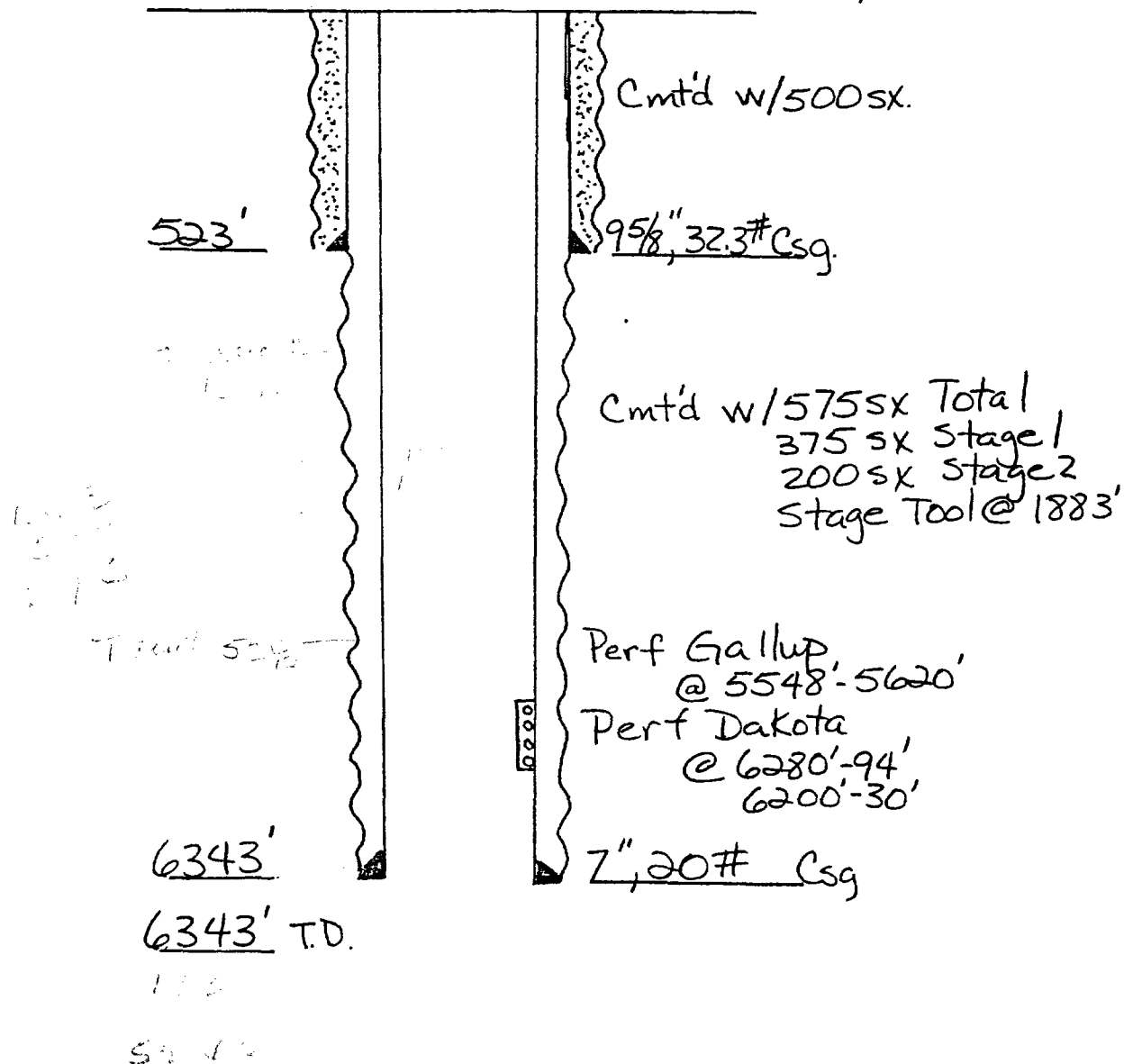




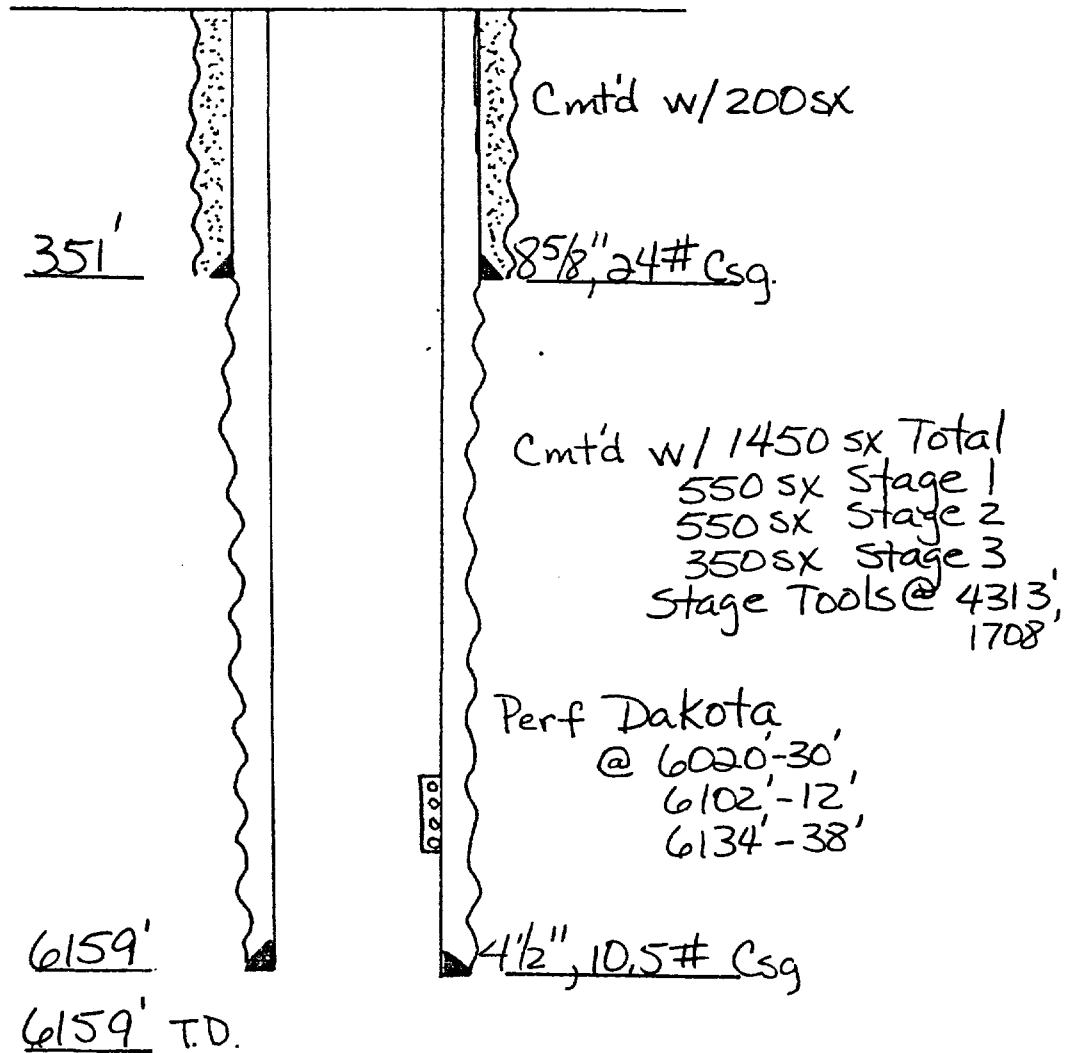
EXHIBIT L

WELLS ADJACENT TO WELL NUMBER 225

Amoco Gallegos Canyon Unit Well No. 264

SWNW Sec 17-T28N-R12W

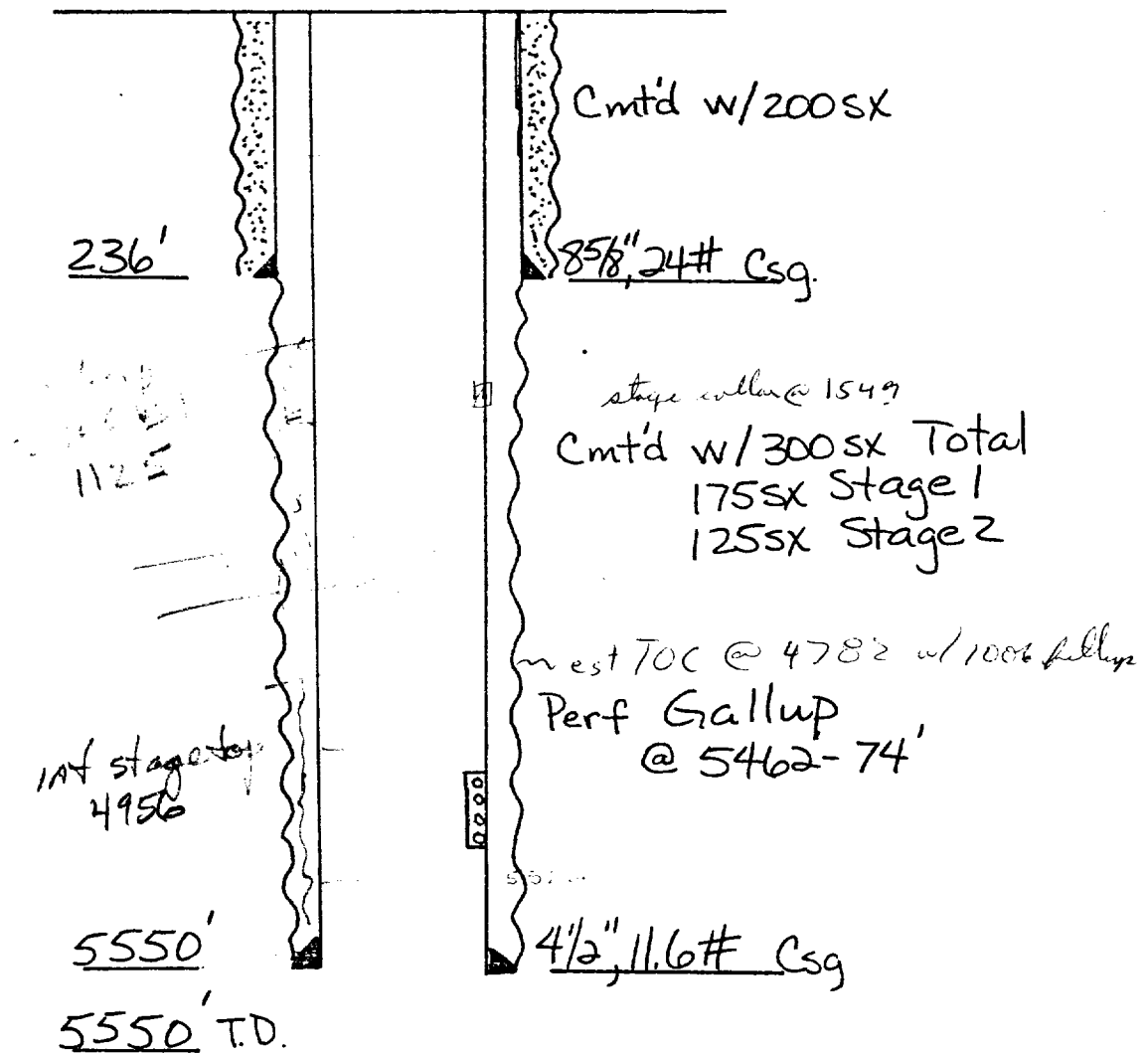
San Juan County, New Mexico
Basin Dakota



Sun Gallegos Canyon Unit Well No. 149

~~SE/SW~~ NW Sec 17-T28N-R12W

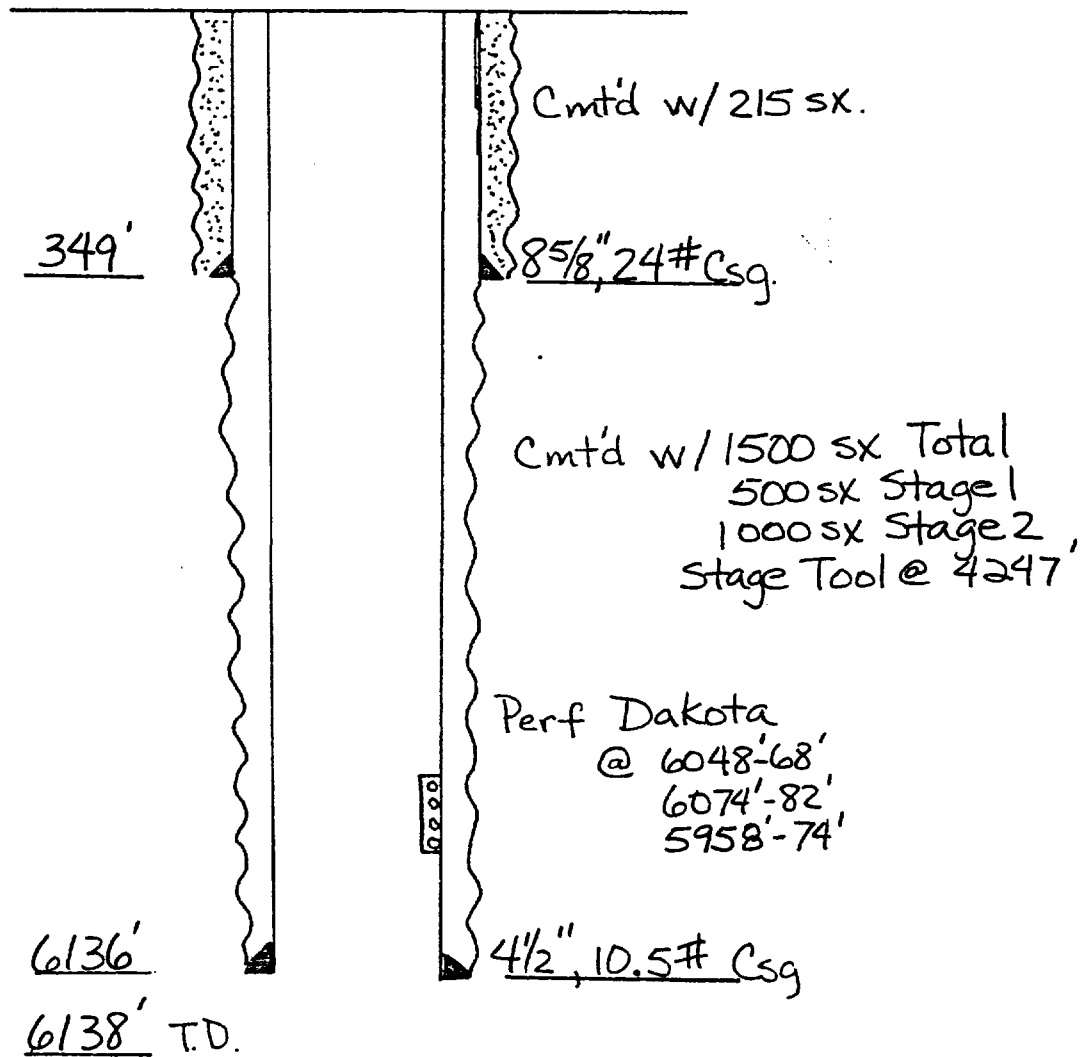
San Juan County, New Mexico
Totah Gallup



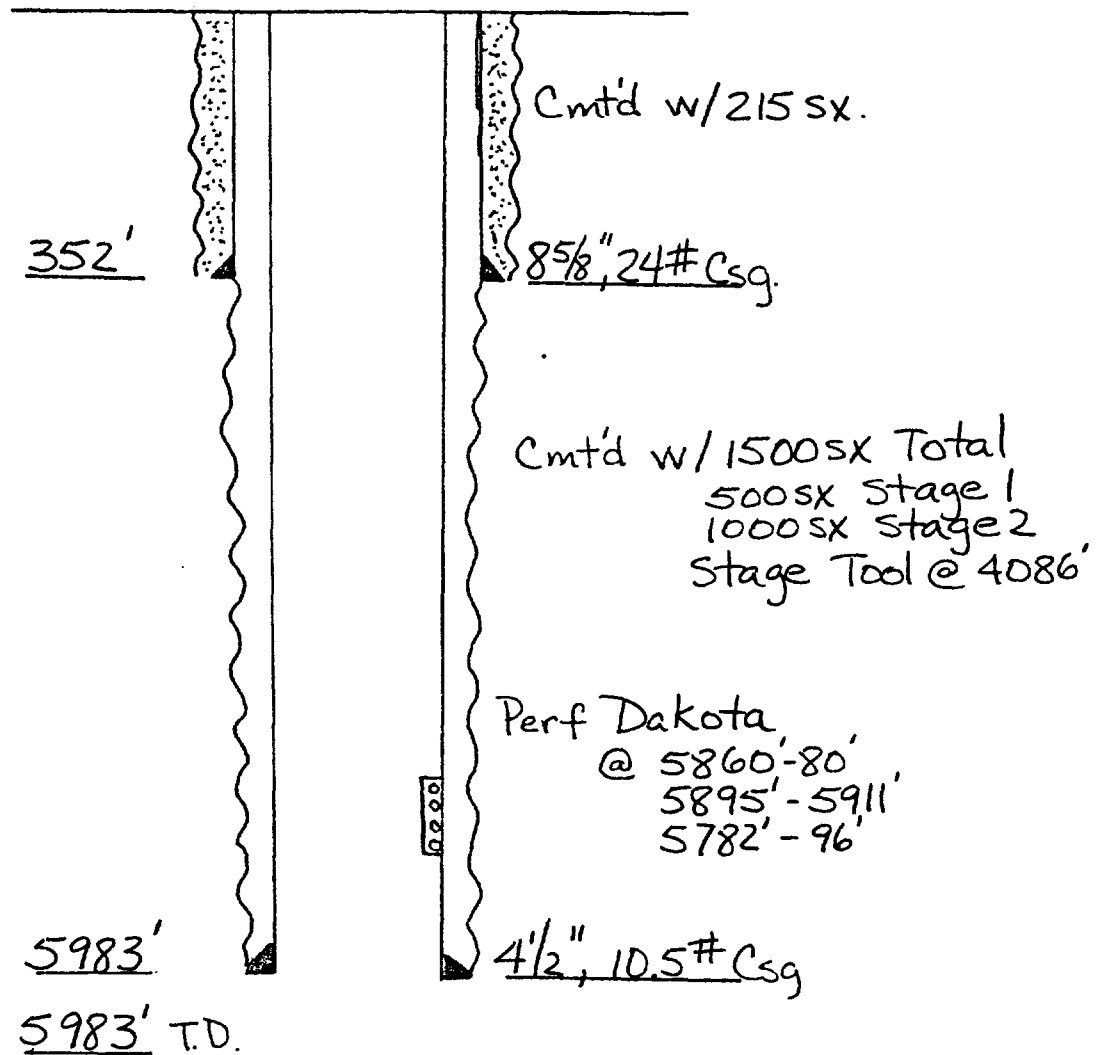
Plugged w/ 25 SX @ 5522'-5226'

10 SX @ surface

Amoco Gallegos Canyon Unit Well No. 205
SESW Sec 17-T28N-R12W
San Juan County, New Mexico
Basin Dakota



Amoco Gallegos Canyon Unit Well No. 215
SWSW Sec 16-T28N-R12W
San Juan County, New Mexico
Basin Dakota



Amoco Gallegos Canyon Unit Well No. 213
NW NE Sec 8-T28N-R12W
San Juan County, New Mexico
Basin Dakota

