

VGSAU CO2 Application - Area of Review - Completions since 1/22/2001

API	Lease Name	Well #	Well Type	Well Status	Csg Type	Hole Size	Casing Size	Set At	SX Cmt	Cmt Top	Meth Drind	POOLNAME	OPERATOR	TOWNSHIP	RANGE	SECT	FTG NS	Dir	FTG EW	EW Dir	Depth	SPUD DATE	COMP DATE
3002536683	VACUUM GRAYBURG SAN ANDRES UNIT	132	I	A	Surf	12.25"	8.625"	1550'	885	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	2	2630	S	660	W	4600	05/08/04	6/1/2004
				A	Prod	7.825"	5.5"	4599'	875	Surf	Circ	CHEVRON		18.0S	34E	2	2630	S	660	W	4600		
3002535686	VACUUM GRAYBURG SAN ANDRES UNIT	133	I	A	Surf	12.25"	8.625"	1561'	880	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	2590	N	1270	W	4700	12/27/01	1/26/2002
				A	Prod	7.825"	5.5"	4263'	750	Surf	Circ	CHEVRON		18.0S	34E	1	2590	N	1270	W			
3002536681	VACUUM GRAYBURG SAN ANDRES UNIT	134	I	A	Surf	12.25"	8.625"	242'	150	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	2630	S	1980	W	4450	05/17/04	6/4/2004
				A	Prod	7.825"	5.5"	4101'	200	Surf	Circ												
3002535561	VACUUM GRAYBURG SAN ANDRES UNIT	135	I	A	Surf	12.25"	8.625"	1544'	700	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	2535	N	1930	E	4800	07/16/01	8/7/2001
				A	Prod	7.825"	5.5"	4108'	950	Surf	Circ												
3002536355	VACUUM GRAYBURG SAN ANDRES UNIT	233	I	A	Surf	12.25"	8.625"	1535'	745	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	2630	S	660	W	4611	08/13/03	10/20/2003
				A	Prod	7.825"	5.5"	4600'	1030	Surf	Circ												
3002535562	VACUUM GRAYBURG SAN ANDRES UNIT	235	I	A	Surf	12.25"	8.625"	1535'	700	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	2610	N	660	E	4800	06/22/01	7/21/2001
				A	Prod	7.825"	5.5"	4600'	950	Surf	Circ												
3002535563	VACUUM GRAYBURG SAN ANDRES UNIT	249	I	A	Surf	12.25"	8.625"	1481'	700	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	1390	N	2530	W	4800	07/03/01	7/31/2001
				A	Prod	7.825"	5.5"	4800'	950	Surf	Circ												
3002538001	VACUUM GRAYBURG SAN ANDRES UNIT	250	I	A	Surf	17.5"	13.125"	1442'	2150	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	1443	N	1286	E	5200	10/08/06	2/1/2007
				A	Inter	12.5"	9.625"	2806'	1080	Surf	Circ												
				A	Prod	8.75"	7"	5179'	1195	Surf	Circ												
3002536500	VACUUM GRAYBURG SAN ANDRES UNIT	110	P	A	Surf	12.25"	8.625"	1548	656	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	653	S	20	W	4652	08/28/06	9/15/2006
				A	Prod	7.825"	5.5"	4652'	855	874	CBL												
					Hzntl	4.75"		4279' TOW															
								4286' BOW															
								6840' MD															
								4661' TVD															
3002532026	VACUUM GRAYBURG SAN ANDRES UNIT	126	P	A	Surf	11"	8.625"	1500'	650	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	1980	S	1308	W	6133	11/16/03	11/26/2003
				A	Prod	7.825"	5.5"	4900'	1300	Surf	Circ												
					Hzntl	4.75"		4241' TOW															
								4248' BOW															
								6133' MD															
								4588' TVD															
3002532028	VACUUM GRAYBURG SAN ANDRES UNIT	128	P	A	Surf	11"	8.625"	1470'	650	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	34E	1	1980	S	1220	W	6039	07/18/03	7/31/2003
				A	Prod	7.825"	5.5"	4800'	1050	Surf	Circ												
					Hzntl	4.75"		4064' TOW															
								4071' BOW															
								6037' MD															
								4396' TVD															
3002537232	Central Vacuum Unit	240	I	A	Surf	14.75"	11.75"	1525'	1035	Surf	Circ	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	17.0S	34E	36	257	S	2519	W	5021	07/10/05	1/18/2006
				A	Inter	11"	8.625"	2741'	620	750	Est												
					Prod	7.825"	5.5"	5014'	825	Surf	Circ												
3002535398	Central Vacuum Unit	294	I	A	Surf	12.25"	8.625"	1566'	700	500	Est	VACUUM GB SA (CONSOLIDATED)**	CHEVRON	18.0S	35E	6	10	N	2630	E	5021	06/05/01	7/4/2001
				A	Prod	7.825"	5.5"	4300'	650	750	Est												
					OH	7.825"	5.5"	5014'	825	2750	Est												

INJECTION WELL DATA SHEET

Side 1

OPERATOR: Chevron U.S.A., Inc.

WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #135W

WELL LOCATION: 2535' FNL 1930' FEL UNIT LETTER G SECTION 1 TOWNSHIP 18S RANGE 34E
FOOTAGE LOCATION

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 700 sx. or 24 ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7.625" Casing Size: 5.5"

Cemented with: 950 sx. or ft³

Top of Cement: Surface Method Determined: Circulation

Total Depth: 4,800'

Injection Interval

4,300 feet to 4,679 feet
298 holes

Well has been completed with perforations.

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: Duolined J55 Inj tbgType of Packer: 5 1/2" Lock set packer Nickle PlatedPacker Setting Depth: ~4261'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinberry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

OPERATOR: Chevron U.S.A., Inc.WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #233WWELL LOCATION: 2630' FNL 660' FEL L 1 18S 34E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface CasingHole Size: 12.25" Casing Size: 8.625"Cemented with: 745 sx. or 24 ft³Top of Cement: Surface Method Determined: CirculationIntermediate CasingHole Size: Casing Size: Cemented with: sx. or ft³Top of Cement: Method Determined: Production CasingHole Size: 8.75" Casing Size: 5.5"Cemented with: 1030 sx. or 15.5 ft³Top of Cement: Surface Method Determined: CirculationTotal Depth: 4,600'Injection Interval4,366 feet to 4,448 feet

Well has been completed with perforations.

INJECTION WELL DATA SHEETTubing Size: 2 3/8" Lining Material: Fiberlined tbgType of Packer: Nickle Plated DuolinePacker Setting Depth: ~4268'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinbry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

OPERATOR: Chevron U.S.A., Inc.

WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #235W

WELL LOCATION: 2610' FNL 660' FEL H 1 18S 34E
 FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELBORE SCHEMATIC

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 700 sx. or 24 ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7.825" Casing Size: 5.5"

Cemented with: 950 sx. or 15.5 ft³

Top of Cement: Surface Method Determined: Circulation

Total Depth: 4,800'

Injection Interval

4,516 feet to 4,712 feet
284 holes

Well has been completed with perforations.

INJECTION WELL DATA SHEET

Tubing Size: 2 7/8" Lining Material: Duo-lined tbg

Type of Packer: Nickle Plated Duoline

Packer Setting Depth: ~4145'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinbry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

OPERATOR: _____ Chevron U.S.A., Inc. _____

WELL NAME & NUMBER: _____ Vacuum Grayburg San Andres Unit #249W _____

WELL LOCATION: _____ 1390' FNL 2530' FWL _____ F _____ 1 _____ 18S _____ 34E _____
FOOTAGE LOCATION _____ UNIT LETTER _____ SECTION _____ TOWNSHIP _____ RANGE _____WELLBORE SCHEMATICWELL CONSTRUCTION DATA
Surface Casing

Hole Size: _____ 12.25" _____ Casing Size: _____ 8.625" _____

Cemented with: _____ 700 _____ sx. *or* _____ 24 _____ ft³

Top of Cement: _____ Surface _____ Method Determined: _____ Circulation _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: _____ 7.625" _____ Casing Size: _____ 5.5" _____

Cemented with: _____ 1950 _____ sx. *or* _____ ft³

Top of Cement: _____ Surface _____ Method Determined: _____ Circulation _____

Total Depth: _____ 4,800' _____

Injection Interval

_____ 4,292 _____ feet to _____ 4,714 _____ feet

Well has been completed with perforations.

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: Fiberlined tbgType of Packer: Nickle Plated DuolinePacker Setting Depth: ~4258'Other Type of Tubing/Casing Seal (if applicable): Additional Data

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

If no, for what purpose was the well originally drilled?

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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.

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinberry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

OPERATOR: Chevron U.S.A., Inc.

WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #250W

WELL LOCATION: 1443' FNL 1286' FEL H 1 18S 34E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 17.5" Casing Size: 13.375"
Cemented with: 2150 sx. or 48 ft³
Top of Cement: Surface Method Determined: Circulation
Intermediate Casing

Hole Size: 12.5" Casing Size: 9.625"
Cemented with: 1080 sx. or 36 ft³
Top of Cement: Surface Method Determined: Circulation
Production Casing

Hole Size: 8.75" Casing Size: 7"
Cemented with: 1195 sx. or 15.5 ft³
Top of Cement: Surface Method Determined: Circulation
Total Depth: 5,200'

Injection Interval

4,32 feet to 4,702 feet

Well has been completed with perforations.

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Fiberlined tbg

Type of Packer: Nickle Plated Duoline

Packer Setting Depth: ~4268'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:
Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinbry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

Side 1

OPERATOR: Chevron U.S.A., Inc.

WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #132W

WELL LOCATION: 2630' FSL 660' FEL I 2 18S 34E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 895 sx. or 24 ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7.625" Casing Size: 5.5"

Cemented with: 875 sx. or 15.5 ft³

Top of Cement: Surface Method Determined: Circulation

Total Depth: 4,600'

Injection Interval

4,370 feet to 4,572 feet
274 holes

Well has been completed using perforations.

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: DuolinedType of Packer: 5 1/2" Hudson Lock set packer Nickle PlatedPacker Setting Depth: ~4326'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinbry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

Side 1

OPERATOR: Chevron U.S.A., Inc.

WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #133 W

WELL LOCATION: 2590' FNL 1270' FWL E 1 18S 34E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 700 sx. or 24 ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7.625" Casing Size: 5.5"

Cemented with: 850 sx. or 15.5 ft³

Top of Cement: Surface Method Determined: Circulation

Total Depth: 4,700'

Injection Interval

4,247 feet to 4,700 feet

Well has been completed as Open Hole.

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: J55 DuolinedType of Packer: 5 1/2" Packer with On/Off tooPacker Setting Depth: ~4215'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinbry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

INJECTION WELL DATA SHEET

OPERATOR: Chevron U.S.A., Inc.

WELL NAME & NUMBER: Vacuum Grayburg San Andres Unit #134W

WELL LOCATION: 2630' FSL 1980' FWL K 1 18S 34E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA
Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 938 sx. or ft³

Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: Casing Size:

Cemented with: sx. or ft³

Top of Cement: Method Determined:

Production Casing

Hole Size: 7.625" Casing Size: 5.5"

Cemented with: 771 sx. or ft³

Top of Cement: Surface Method Determined: Circulation

Total Depth: 4,700'

Injection Interval

4,217 feet to 4,420 feet
278 holes

Well has been completed with perforations.

INJECTION WELL DATA SHEETTubing Size: 2 7/8" Lining Material: DuolinedType of Packer: 5 1/2" Hudson Lock set packer Nickle PlatedPacker Setting Depth: ~4153'

Other Type of Tubing/Casing Seal (if applicable): _____

Additional Data

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

If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Grayburg San Andres

3. Name of Field or Pool (if applicable): Vacuum

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. _____

No

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:

Underlying:

Grayburg – 4030', San Andres – 4345', Glorieta – 5865', Blinbry - 6285', Drinkard – 7480', Abo – 7925', Wolfcamp – 9260', Upper Penn – 10,200', Atoka – 10690', Strawn – 10935', Morrow – 11050', Mississippian – 11550', Woodford – 12000'.

There are no known producing zones below the Devonian within the area of review.

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

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.)		WELL API NO. 30-025- 30027 32027
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator Chevron		6. State Oil & Gas Lease No. B-1306-2
3. Address of Operator 15 Smith Road Midland, Texas 79705		7. Lease Name or Unit Agreement Name: Vacuum Grayburg San Andres Unit
4. Well Location Unit Letter <u>K</u> : 1980 feet from the <u>South</u> line and <u>2625</u> feet from the <u>West</u> line Section <u>1</u> Township <u>18-S</u> Range <u>34-E</u> NMPM County <u>Lea</u>		8. Well No. <u>127</u>
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3992' GL		9. Pool name or Wildcat Vacuum <u>62180</u>

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒	REMEDIAL WORK ☐ ALTERING CASING ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

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 attached procedure

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

SIGNATURE P.W. Minchew TITLE Operations Supervisor DATE 11/7/2002
Type or print name P.W. Minchew Telephone No. 396-4414
(This space for State use)

APPROVED BY _____ TITLE _____ DATE NOV - 8 2002
Conditions of approval, if any:

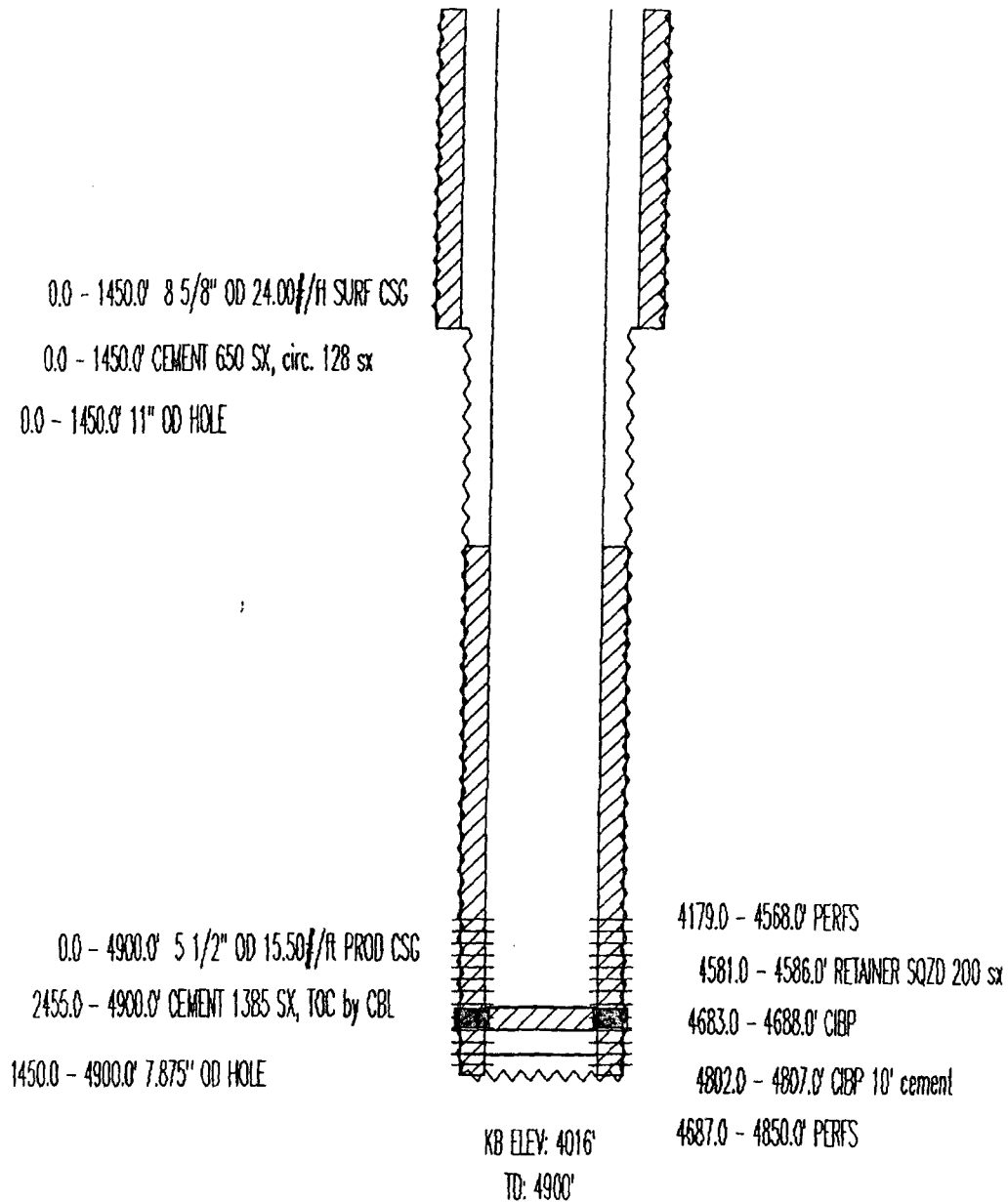
B

Vacuum Grayburg San Andres Unit #127
Plugging Procedure

8 5/8" 24# set @ 1450'	Cement circulated
5 1/2" 15.5# set @ 4900'	Top of cement @ 2455'
Original perforations 4687' to 4850'	
CIBP set @ 4802' - 4807' w/10' cement	
CIBP set @ 4683' - 4688'	
Cement retainer set @ 4581' - 4586' squeezed with 200 sx Class C cement	
Current perforations 4179' to 4568'	

1. TIH with bit and scraper to top of fish at 3122'. Circulate casing with 10# brine. TOH.
2. TIH with CIBP and set at 3110'. Spot cement plug (40 Sx) from 3110' to 2700'. (Base of salt at 2850'). TOH.
3. Pressure casing and test to 500 psi. If necessary TIH with packer and locate casing leaks. Circulate casing with salt gel mud. Squeeze any casing leaks and leave 50' cement plugs across these intervals. If casing tests good, perforate casing at 1500' and attempt to circulate to surface.
4. If circulation is achieved pump 400 sx Class C Cement and circulate cement to surface. Displace to 1350' leaving 150' cement plug in casing from 1350' to 1500'. Spot 500' cement plug from 500' to surface (50 sx). Install dry hole marker.
5. If circulation is not achieved squeeze 400 sx Class C Cement and displace to 1300'. If cement stays in place run temperature survey and locate top of cement. Spot top plug according to step 4.
6. If cement plug at 1300' does not stay in place clear casing and resqueeze. (visit with PWM, DS, and Engineering. Proceed as above.

TEXACO EXPL. & PROD. INC.
VACUUM GRAYBURG SA UNIT #127
API# 30 - 025 - 32027



1980' FSL & 2625' FWL
SEC 1, T1N 18-S, RANGE 34-E
ELEVATION: 3992' GL
COMPLETION DATE: 09-09-93
COMPLETION INTERVAL: 4179' - 4568' (GCSA)

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-2600 0
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-155-1
7. Lease Name or Unit Agreement Name Central Vacuum Unit
8. Well Number: 140
9. OGRID Number
10. Pool name or Wildcat Vacuum Grayburg San Andres

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. Type of Well: Oil Well ☐ Gas Well ☒ Other: Water Injection Well	
2. Name of Operator Chevron USA Inc	
3. Address of Operator P.O. Box 7139, Midland, Texas 79708	
4. Well Location Unit Letter <u>N</u> : <u>10</u> feet from the <u>South</u> line and <u>2571</u> feet from the <u>West</u> line Section <u>36</u> Township <u>17S</u> Range <u>34E</u> NMPM County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3988' GL	
Pit or Below-grade Tank Application ☐ or Closure ☐	
Pit type <u>STEEL</u> Depth to Groundwater <u>104</u> Distance from nearest fresh water well over 1000 Distance from nearest surface water	
Pit Liner Thickness: mil Below-Grade Tank: Volume bbls; Construction Material	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☒	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☐		OTHER: ☐	

13. 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 recompletion.

1. Notify NMOCDD 24 hrs. prior to MI&RU.
2. Set CIBP @ 4,210' (San Andres perfs 4,260;-4,702').
3. RIH, spot 25sx plug 4,210'-4,065' (San Andres - on top of CIBP). WOC Tag.
4. Displace hole w/MLF, 9.5 ppg brine w/12.5 gel p/bbl.
5. Spot 30sx plug 2,840'-2,640' (B. salt).
6. Spot 30sx plug 1,550'-1,350' (T. salt).
7. Spot 35sx plug 465'-surface (13-3/8" shoe, surface) WOC Tag.
8. Install dry hole marker.

**THE OIL CONSERVATION DIVISION MUST
BE NOTIFIED 24 HOURS PRIOR TO THE
BEGINNING OF PLUGGING OPERATIONS.**

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCDD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE M. Lee Roark TITLE Agent DATE 12/1/2005

Type or print name M. Lee Roark

E-mail address:

Telephone No. (432) 561-8600

For State Use Only

APPROVED BY: Larry W. Wink TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE DEC 06 2005

Conditions of Approval (if any):

DEC 06 2005

PLUGGING & ABANDONMENT WORKSHEET (4 STRING CSNG)

OPERATOR Chevron USA Inc.

LEASENAME Central Vacuum Unit

WELL # 140

SECT 36 TWN 175 RNG 34E

FROM 10 WSL 2571 WWL

TD: 4800' FORMATION @ TD SAN Andres

PBTD: 4784' FORMATION @ PBTD

	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	13 3/8"	365'	Surface	Circulated
INTMED 1	9 5/8"	1,450'	Surface	Circulated
INTMED 2	7"	2,740'	Surface	Circulated
PROD	4 1/2"	4,800'	Surface	Circulated
	SIZE	TOP	BOT	TOC DETERMINED BY
LINER 1				
LINER 2				
	CUT & PULL @		TOP - BOTTOM	
INTMED 1			PERFS	4,260' - 4,702'
INTMED 2			OPENHOLE	-
PROD				

* REQUIRED PLUGS DISTRICT 1

RINTLER (ANHYD)	
YATES	
QUEEN	
GRAYBURG	
SAN ANDRES	
CAPTAN REEF	
DELAWARE	
BELL CANYON	
CHERRY CANYON	
BRUSHY CANYON	
BONE SPRING	
OLORIETA	
BLINEBY	
TUBB	
DEINKARD	
ABO	
WC	
PENK	
STRAWN	
ATOKA	
MORROW	
MISS	
DEVONIAN	

PLUG	TYPE PLUG	SACKS CMNT	DEPTH
EXAMPLES			
PLUG #1	OH	25 SXS	9850'
PLUG #2	SHOE	50 SXS	8700'-8800
PLUG #3	CIBP/35'		5300
PLUG #3	CIBP	25 SXS	5300
PLUG #4	STUB	50 SXS	4600'-4700'
PLUG #7	RETRN SQZ	200 SXS	400
PLUG #8	SURF	10 SXS	0-10'
PLUG #1	S. Andres	CIBP	4,210'
PLUG #2	S. Andres	25sxx	4,210'-4,045'
PLUG #3	B. Salt	30sxx	2840'-2640'
PLUG #4	T. Salt	30sxx	1,550'-1,350'
PLUG #5	13 3/8" S	35sxx	465'-Surface
PLUG #6			
PLUG #7			
PLUG #8			
PLUG #9			
PLUG #10			
PLUG #			
PLUG #			
PLUG #			
PLUG #			

13 3/8"
@ 365'
TOC - Surface

9 5/8"
@ 1450'
TOC - Surface

7"
@ 2740'
TOC - Surface

4 1/2"
@ 4800'
TOC - Surface

TD 4800'

Created:	4/29/2003
Updated:	6/27/2005
Lease:	Central Vacuum Unit
Surface Location:	10 FSL & 2571 PML
Bottomhole Location:	Same
County:	Lea
Current Status:	Active Water Injection Well
Directions to Wellsite:	Buckeye, New Mexico

By: SMG
By: Glen Anderson
Well No.: 140
Unit Ltr: N
Unit Ltr:
St Lease: B-155-1
Elevation: 3808' GL
: NM

Field: Vacuum Grayburg San Andres
Sec: 38 TSHP/Range: 173-34E
Sec: TSHP/Range:
API: 30-025-26000
Cost Center:
TEPI:
MVP:

TEPI:	BCT493000
MVP:	BCT494500

Size:	13 3/8"
Wt.:	488, K-55
Set @:	365'
Sxs cnt:	400
Crc:	Yes
TOC:	Surface
Hole Size:	17 1/2"

Size:	9 5/8"
Wt:	369 H-40
Set @:	1450'
S&A Cmt:	600
Circ:	Yes
TOC:	Surface
Hide Size:	12 1/4"
DV Tool:	1457'-14523'

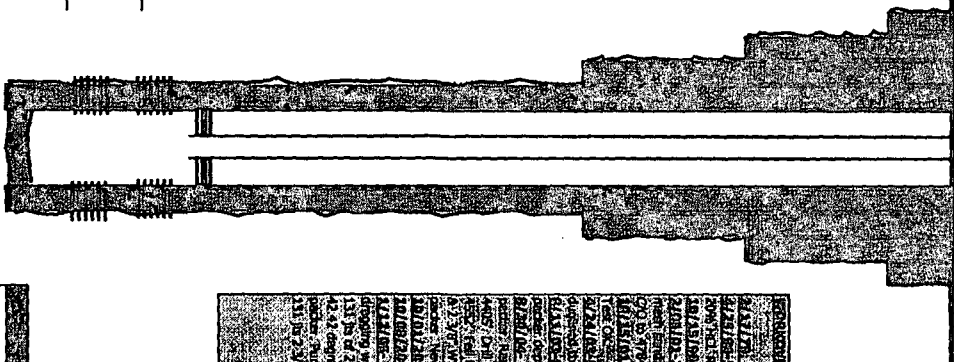
Size:	7"
Wt:	232 K-55
Set (2):	2740
Sxs Cmt:	850
Crc:	Yes
TDC:	Surface
Hide Size:	8 3/4"

Size:	4 1/2
WL:	10.58 K-15
Set @:	4800
Sax Cnt:	730
Circ:	Yes
TOC:	Surface
Hole Size:	7.78"

Upper San Andres

Lower San Andres

ZONES		Gross / Net Ratio	
GB Mantle	4.102	35	
GB Doi Top	4.215		
GB Doi Bot	4.250		
San Andres	4.253	167	14
SA	4.420	280	33
OW	4.700	84	
PBTD	4.784		
TOTAL		599	97
Gross / Net Ratio			
Multiple of Performances:	4.500	1.33	



KB: 3,988
D.F.
GL: 3,988
Original Spud Date: 12/15/1976
Original Comp. Date: 2/7/1979
KB: 10

[illegible][illegible]

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 17S Range: 34E Sections: 36

NAD27 X: Y: Zone: Search Radius:

County: LE Basin: Number: Suffix:

Owner Name: (First) (Last) Non-Domestic Domestic
All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 12/01/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	17S	34E	36				2	102	105	104

Record Count: 2

Submit 3 Copies To Appropriate District

Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

Revised March 25, 1999

WELL API NO.

30-025-25121

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

B-3936-1

7. Lease Name or Unit Agreement Name:

New Mexico AA State NCT-4

8. Well No.

4

9. Pool name or Wildcat

Vacum ABO REEF

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. Type of Well:

Oil Well ☐ Gas Well ☐ Other SWD

2. Name of Operator

Chevron USA, Inc.

3. Address of Operator

15 Smith Rd. Midland, Tx 79705

4. Well Location

Unit Letter A : 919 feet from the north line and 401 feet from the east line

Section 10

Township 18-S

Range 34-E

NMPM

County Lea

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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 recompletion.

1. Notify OCD 24hrs prior to MI & RU
2. Set 5 1/2 CIBP @ 5000, spot 25sx plug 5000-4800(San Andres) WOC Tag.
3. Displace hole w/MLF, 9.5# Brine w/25# Gel P/BBL.
4. Spot 25sx plug 4100-3900(Queen)
5. Spot 25sx plug 3000-2800(B-salt) WOC Tag.
6. Spot 25sx plug 1875-1675(8 5/8 shoe, T-salt) WOC Tag.
7. Spot 30sx plug 300-surf(surf) WOC Tag.
8. Install dry hole marker.

THIS FORM IS VALID FOR 30 DAYS FROM DATE OF FILING
FILED IN THE OFFICE OF THE CLERK OF THE DISTRICT COURT
FOR THE DISTRICT OF SANTA FE, NEW MEXICO
TO BE RE-APPROVED.

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

SIGNATURE D.R. [Signature]

TITLE HESS specialist

DATE 12/19/2002

Type or print name

Telephone No.

(This space for State use)

APPROVED BY

[Signature]

DATE

Conditions of approval, if any:

GARY W. [Signature]
OCD FIELD REPRESENTATIVE II/STAFF MANAGER

PLUGGING & ABANDONMENT WORKSHEET

(2 STRING CSNG)

OPERATOR CHEVRON USA INC.

LEASE NAME NEW MEXICO "AA" STATE NCT-4

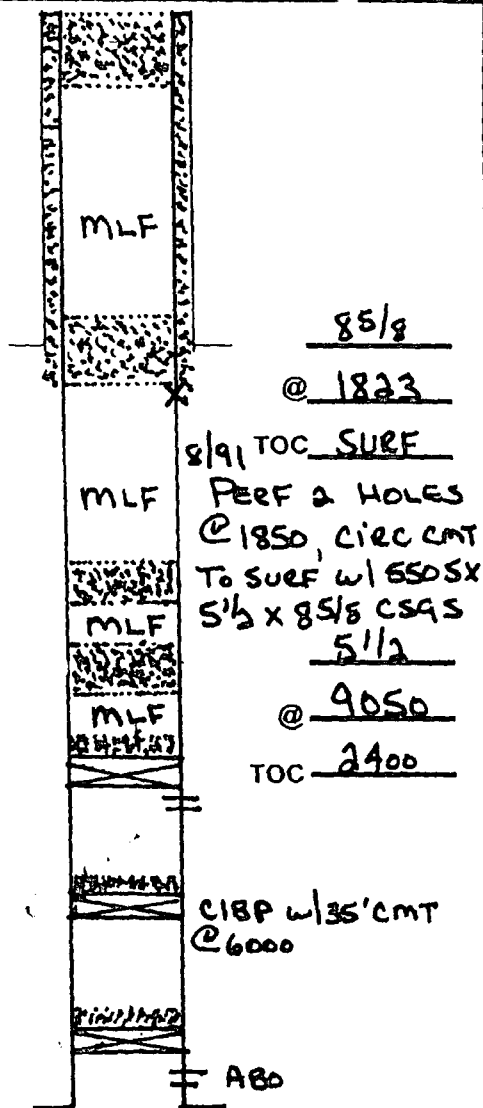
WELL # 4

SECT 10 TWN 18-S RNG 34-E

FROM 919 NSL 401 OWL

TD 9050 FORMATION @ TD ABO

PBTD FORMATION @ PBTD SAN ANDRES



TD 9050

	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	8 5/8	1823	SURF	CIRC
INTMED 1				
INTMED 2				
PROD	5 1/2	9050	2400	T.S

	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					

	CUT & PULL	PERFS	TOP - BOTTOM
INTMED 1			5055 - 5520
INTMED 2		OPENHOLE	
PROD			

*REQUIRED PLUGS DISTRICT

	PLUG	TYPE PLUG	SACKS CEMENT	DEPTH
RUSTLER (ANHYD)	1	CIBP	25	5000
YATES	2	QUEEN	25	4100
QUEEN	3	B-SALT	25	3000
GRAYBURG	4	8 5/8 S	25	1875
SAN ANDRES	5	SURF	30	200
CAPITAN REEF				
DELAWARE				
BELL CANYON				
CHERRY CANYON				
BRUSHY CANYON				
BONE SPRING				
GLORIETA				
BUNBRY				
TUBB				
DRINKARD				
ABO				
WC				
PENN				
STRAWN				
ATOKA				
MORROW				
MISS				
DEVONIAN				

PLUGGING & ABANDONMENT WORKSHEET

(1 STRING CSNG)

OPERATOR TEXACO EXPLORATION & PRODUCTION
LEASENAME VACUUM CALORITA WEST UNIT

SECT D TWN 18S RNG 34E
FROM 560 N/S L 760 E/W L
TD: 10191 FORMATION @ TD VACUUM
PBTD: FORMATION @ PBTD CALORITA

17 1/2 HOLE
133/8
@ 1504
Toc Circ

12 3/4 HOLE
95/8
@ 4788
Toc Circ

	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	133/8	1504	SURF	Circ
INTMED 1	95/8	4788	SURF	Circ
INTMED 2	27/8	10,191	SURF	Circ
PROD	27/8	10,215	SURF	Circ
	SIZE	TOP	BOT	TOC DETERMINED BY
LINER 1	27/8	9473	SURF	Circ
LINER 2				
	CUT & PULL @		TOP - BOTTOM	
INTMED 1		PERFS	-	
INTMED 2		OPENHOLE	-	
PROD				

* REQUIRED PLUGS DISTRICT I *

RUTLER (ANYD)	
YATES	
QUEEN	
GRAYBURG	
SAN ANDRES	
CAPTAIN REEF	
DELAWARE	
BELL CANYON	
CHERRY CANYON	
BERRY CANYON	
BONE SPRING	
CALORITA	
BLINERY	
TUBB	
DEINEARD	
ABO	
WC	
PENH	
STRAWN	
ATOXA	
MORDOW	
MEH	
DEVONIAN	

PLUG	TYPE	SACKS	DEPTH
PLUG	PLUG	CMNT	
EXAMPLES			
PLUG #1	OS	35 SXS	1750'
PLUG #2	SHOE	50 SXS	300'-400'
PLUG #3	SURF	10 SXS	0-10'
PLUG #1	CIBP	6075	6075-SURF
PLUG #2	CIBP	6075	6075-SURF
PLUG #3	CIBP	6075	6075-SURF
PLUG #4			
PLUG #5			
PLUG #6			
PLUG #7			
PLUG #8			
PLUG #9			
PLUG #10			
PLUG #			
PLUG #			

CALORITA
CALORITA
CALORITA

27/8 CSg
3 strings
@ 10,191'
10,215'
9473'
8 3/4" HOLE

TD 10,191

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-20494
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-1082-2

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. Type of Well: Oil Well ☒ Gas Well ☐ Other: _____	7. Lease Name or Unit Agreement Name New Mexico M State
2. Name of Operator Chevron USA Inc	8. Well Number: 7
3. Address of Operator P.O. Box 7139, Midland, Texas 79708	9. OGRID Number
4. Well Location Unit Letter <u>F</u> : <u>1800</u> feet from the <u>North</u> line and <u>1980</u> feet from the <u>West</u> line Section <u>1</u> Township <u>18S</u> Range <u>34E</u> NMPM County <u>Lea</u>	10. Pool name or Wildcat Vacuum (Drinkard)
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4010' DF	
Pit or Below-grade Tank Application ☐ or Closure ☐	
Pit type <u>STEEL</u> Depth to Groundwater <u>107</u> Distance from nearest fresh water well over 1000 Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

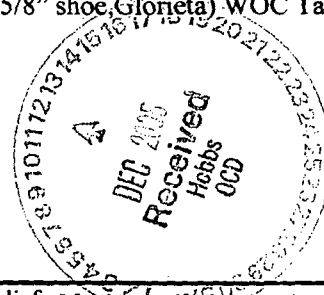
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☒	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☐		OTHER: ☐	

13. 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 recompletion.

1. Notify NMOCD 24 hrs. prior to MI&RU.
2. Set CIBP in "X" string @ 7,325' (Drinkard vent perfs).
3. Set CIBP in "Y" string @ 7,500' (Drinkard perfs).
4. RIH Tag PBTD in "Z" string @ 5,915' (Glorieta CIBP and cement).
5. Spot 105sx plug in "Z" string from 5,915'-1,700' (B. salt, Yates, San Andres, 9-5/8" shoe) WOC Tag.
6. Spot 145sx plug in "Y" string from 7,500'-1,700' (B. salt, Yates, San Andres, 9-5/8" shoe, Glorieta) WOC Tag.
7. Spot 140sx plug in "X" string from 7,325'-1,700' (B. salt, Yates, San Andres, 9-5/8" shoe, Glorieta) WOC Tag.
8. Cut and pull 1,700' of each 2-7/8" string (X, Y, Z-total 5,100')
9. Spot 70sx plug from 1,700'-1,400' (stub, T. salt, 13-3/8" shoe) WOC Tag.
10. Displace hole w/MLF, 9.5 ppg brine w/12.5 gel p/bbl.
11. Spot 20sx plug from 50'-surface' (surface) WOC Tag.
12. Install dry hole marker.

NOTE: See attached schematic for 2-7/8" tubing string identification.

**THE OIL CONSERVATION DIVISION MUST
BE NOTIFIED 24 HOURS PRIOR TO THE
BEGINNING OF PLUGGING OPERATIONS.**



I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OGD-approved plan ☐.

SIGNATURE 4. Lee Roark TITLE Agent DATE 12/8/2005

Type or print name M. Lee Roark
For State Use Only

E-mail address:

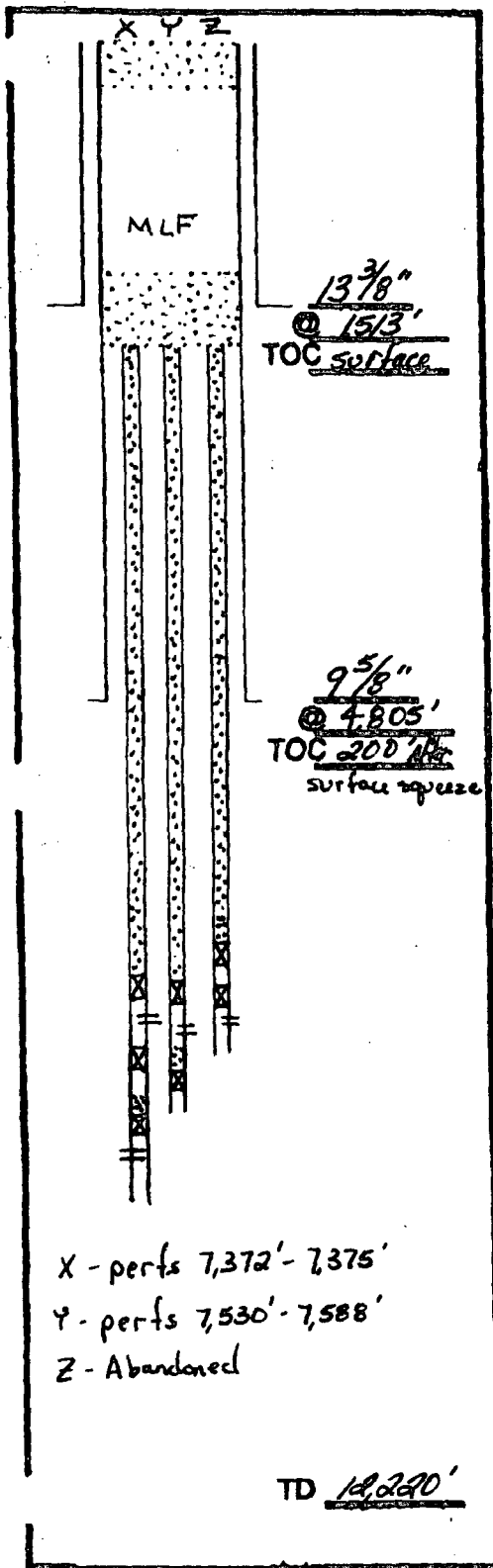
Telephone No. (432) 561-8600

APPROVED BY: Chris Williams TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER DATE DEC 14 2005
Conditions of Approval (if any):

PLUGGING & ABANDONMENT WORKSHEET (2 STRING CSNG)

OPERATOR CHEVRON USA, Inc.
 LEASENAME New Mexico M State

SECT 1 TWN 18S RNG 34E
 FROM 1800 NW L 1980 EWL
 TD: 12,200' FORMATION @ TD Devonian
 PBTD: 10,344' FORMATION @ PBTD Wolfcamp



	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	13 7/8"	1513'	surface	
INTMED 1	9 5/8"	485'	200'	Temp. SVY
Prod. X	2 7/8"	10,232'	1730'	Temp. SVY
Prod. Y	2 7/8"	10,198'	1730'	Temp. SVY
	SIZE	TOP	BOT	TOC DETERMINED BY
Prod. Z	2 7/8"	7,937'	1730'	Temp. SVY
	CUT & PULL @		TOP - BOTTOM	
Prod. X	1,700'		PERFS	-
Prod. Y	1,700'		OPERSOLE	-
Prod. Z	1,700'			

*REQUIRED PLUGS DISTRICT I

PLUG	TYPE	BACKS	DEPTH
PLUG	PLUG	CMT	
EXAMPLES			
PLUG #1	OH	35 SCS	6400'
PLUG #2	SHOE	50 SCS	3350'-5450'
PLUG #3	CIBP/SS		4800'
PLUG #4	CTBP	25 SCS	4800'
PLUG #5	STUB	50 SCS	3600'-3760'
PLUG #6	RETAINER	200 SCS	400'
PLUG #7	SURF	10 SCS	0-10'
PLUG #8	CIBP		7,325'
PLUG #9	CIBP		7,500'
PLUG #10	*	105sx	5915'-1700'
PLUG #11	*	145sx	7,500'-1700'
PLUG #12	*	140sx	7,325'-1700'
PLUG #13	Stub	70sx	1,700'-1400'
PLUG #14	T. salt		
PLUG #15	13 7/8" shoe		
PLUG #16	Surface	20sx	50' surface
PLUG #17			
PLUG #18			
PLUG #19			
PLUG #20			
PLUG #21			
PLUG #22			
PLUG #23			
PLUG #24			
PLUG #25			
PLUG #26			
PLUG #27			
PLUG #28			
PLUG #29			
PLUG #30			
PLUG #31			
PLUG #32			
PLUG #33			
PLUG #34			
PLUG #35			
PLUG #36			
PLUG #37			
PLUG #38			
PLUG #39			
PLUG #40			
PLUG #41			
PLUG #42			
PLUG #43			
PLUG #44			
PLUG #45			
PLUG #46			
PLUG #47			
PLUG #48			
PLUG #49			
PLUG #50			
PLUG #51			
PLUG #52			
PLUG #53			
PLUG #54			
PLUG #55			
PLUG #56			
PLUG #57			
PLUG #58			
PLUG #59			
PLUG #60			
PLUG #61			
PLUG #62			
PLUG #63			
PLUG #64			
PLUG #65			
PLUG #66			
PLUG #67			
PLUG #68			
PLUG #69			
PLUG #70			
PLUG #71			
PLUG #72			
PLUG #73			
PLUG #74			
PLUG #75			
PLUG #76			
PLUG #77			
PLUG #78			
PLUG #79			
PLUG #80			
PLUG #81			
PLUG #82			
PLUG #83			
PLUG #84			
PLUG #85			
PLUG #86			
PLUG #87			
PLUG #88			
PLUG #89			
PLUG #90			
PLUG #91			
PLUG #92			
PLUG #93			
PLUG #94			
PLUG #95			
PLUG #96			
PLUG #97			
PLUG #98			
PLUG #99			
PLUG #100			

* B. salt, Yates, San Andres, 9 5/8" shoe
 Glorieta

**CURRENT
WELLBORE DIAGRAM**

Created: 12/22/2003
 Updated: _____
 Lease: New Mexico M State
 Surface Location: 1800' FNL & 1980' FWL
 Bottomhole Location: Same
 County: Lea
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

By: SMG/MCD
 Well No: 7
 Unit Ltr: F Sec: 1
 St: NM St Lease: B-1080-2
 Elevation: 4010' DF
 Field: Vacuum Drinkard
 TSHP/Range: 18S-34E
 TSHP/Range: _____
 API: 30-025-20494 Cost Center: UCT494400

Surface Casing
 Size: 13 3/8"
 WL: 54.5#
 Set @: 1513'
 Sxs cmt: 1100
 Circ: Yes
 TOC: Surface
 Hole Size: 17 1/2"

Intermediate Casing
 Size: 9 5/8"
 WL: 40#
 Set @: 4805'
 Sxs Cmt: 1700
 Circ: _____
 TOC: 200'
 Hole Size: 12 1/4"

Total Depth: 12220'

✓ **X String (Wolfcamp)**
 Size: 2 7/8"
 WL: 6.4#, J-55
 Set @: 10232'
 TOC: 1730'
 CIBP: 9895' (capped w/35' cmt)
 X String PBTD: 9860'

Y String (Drinkard)
 Size: 2 7/8"
 WL: 6.4#, J-55
 Set @: 10198'
 TOC: 1730'
 CIBP: 7930' (capped w/35' cmt)
 Y String PBTD: 7895'

Z String (Glorieta)
 Size: 2 7/8"
 WL: 6.4#, J-55
 Set @: 7937'
 TOC: 1730'
 CIBP: 6100'
 CIBP: 5950' (capped w/35' cmt)
 Z String PBTD: 5915'

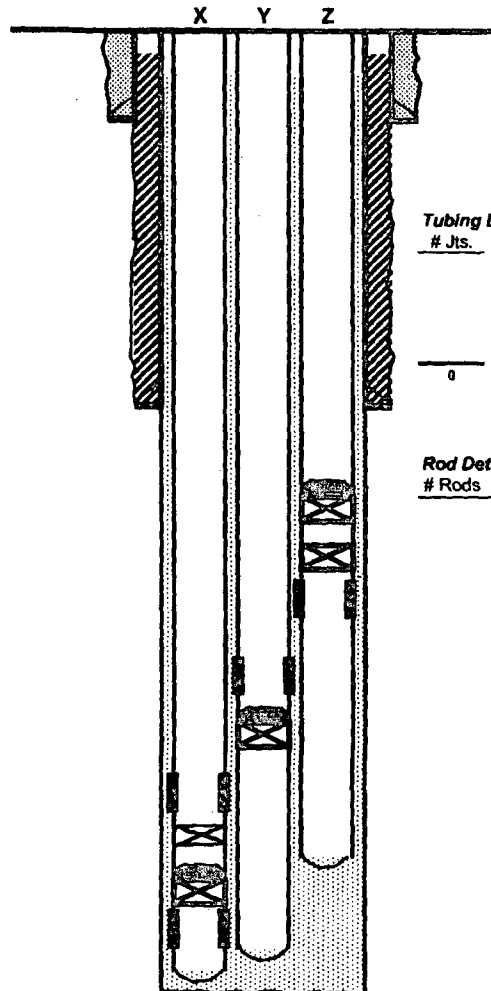
**Combined sacks of cement for
 X, Y, Z strings:** 2087

Perforations
X String (Wolfcamp) 7372'-7375 w/ 2 SPF (8 holes) vent string for Drinkard string (7/8/95)
 9967'-9970'; 9977'-9979'; 9992-9994' All Perfs Plugged Back
 10041'-10043' All Perfs Plugged Back

Y String (Drinkard) 7530'-7588', (2 JSPF; 52 perf ft-104 holes)
 7606'-7666', (2 JSPF; 49 perf ft-98 Holes)

Z String (Glorieta) 6283'-6418' (SPI; 31 int, 62 shots) All Perfs Plugged Back

Remarks:



KB: 4011'
 DF: 4010'
 GL: 3994'
 Original Spud Date: 7/26/1963
 Original Compl. Date: 9/15/1963
 Recompletion Compl. Date: 5/1/1993

Tubing Detail			Date: 4/08/03
# Jts.	Size	Footage	
	2 7/8" J55 10 V bare cl. 'B'		
	2 3/8" J55 bare cl. 'B'		
	4 1/2" x 2 3/8" Baker type TAC		
	2 3/8" J55 bare cl. 'B'		
	2 3/8" S/N		
0	Pump Intake	0.00	
	Perf sub		
	EOT	0.00	

Rod Detail			Date:
# Rods	Size	Footage	
	1-1/2" X 26' POR		
	1" Grade D cl 'B' bare pony rods		
	1" Grade D cl 'B' bare rods		
	7/8" Grade D cl 'B' bare rods		
	3/4" Grade D cl 'B' bare rods		
	1-1/2" cl 'B' bare sinker bars		
	2.0" X 1.25" HHBC		
	1-1/4" Gas Anchor		
		0.00	

Pump Detail
 Date:
 Barrel:
 Plunger:
 Pump: Total Fit
 Seats:

Report filed 6/19/93 shows CIBP set @ 7400'

New Mexico Office of the State Engineer
Well Reports and Downloads

Township: 18S Range: 34E Sections: 1

NAD27 X: Y: Zone: ☒ Search Radius:County: LE ☒ Basin: ☒ Number: Suffix:Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

Well / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 12/08/2005

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	18S	34E	01				5	100	115	107

Record Count: 5

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.

30-025-20008

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

B-155-1

7. Lease Name or Unit Agreement Name:

New Mexico 0 NCT-1

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. Type of Well:

Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Texaco Exploration & Production, Inc.

3. Address of Operator

P. O. Box 3109, Midland, TX 79702

4. Well Location

Unit Letter J 1874 feet from the South line and 2086 feet from the East line

Section 36 Township 17S Range 34E NMPM County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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 recompletion.

1. RU Wolfcamp String. Set 2 7/8" CIBP @ 9900', fill 2 7/8" Csg w/125 Sx plug 9900'-4900' (Wolfcamp) WOC Tag
2. RU ABO String. Set 2 7/8" CIBP @ 9120', fill 2 7/8" Csg w/110 Sx plug 9120'-4900' (Wolfcamp) WOC Tag
3. RU Blinbry String. Set 3 1/2" CIBP @ 9975', fill 3 1/2" Csg w/185 Sx plug 9975'-4900' (Wolfcamp-ABO) WOC Tag
4. Cut 3 Csg strings @ 4900' L/D Csgs
5. Spot 90 Sx plug 4900'-4700' (9 5/8" shoe) WOC Tag
6. Displace hole w/MLF, 9.5# Brine w/25# gel P/BBL TO BE APPROVED.
7. Spot 90 Sx plug 3600'-3400' (Queen)
8. Spot 90 Sx plug 2900'-2700' (Yates-B-Salt)
9. Perf 9 5/8" Csg w/6 holes @ 1620', Sqz 150 Sx plug 1620'-1300' (13 3/8" shoe, T-Salt) WOC Tag
10. 10 Sx Surface, Install Dry hole marker.

THE COMMISSION MUST BE NOTIFIED 24 HOURS PRIOR TO THE BEGINNING OF PLUGGING OPERATIONS FOR THE C-103 TO BE APPROVED.

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

SIGNATURE J. T. Corbett TITLE FACILITY ENGINEER DATE 3/29/01

Type or print name JAMES T. CORBITT Telephone No. 688-4438

(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____

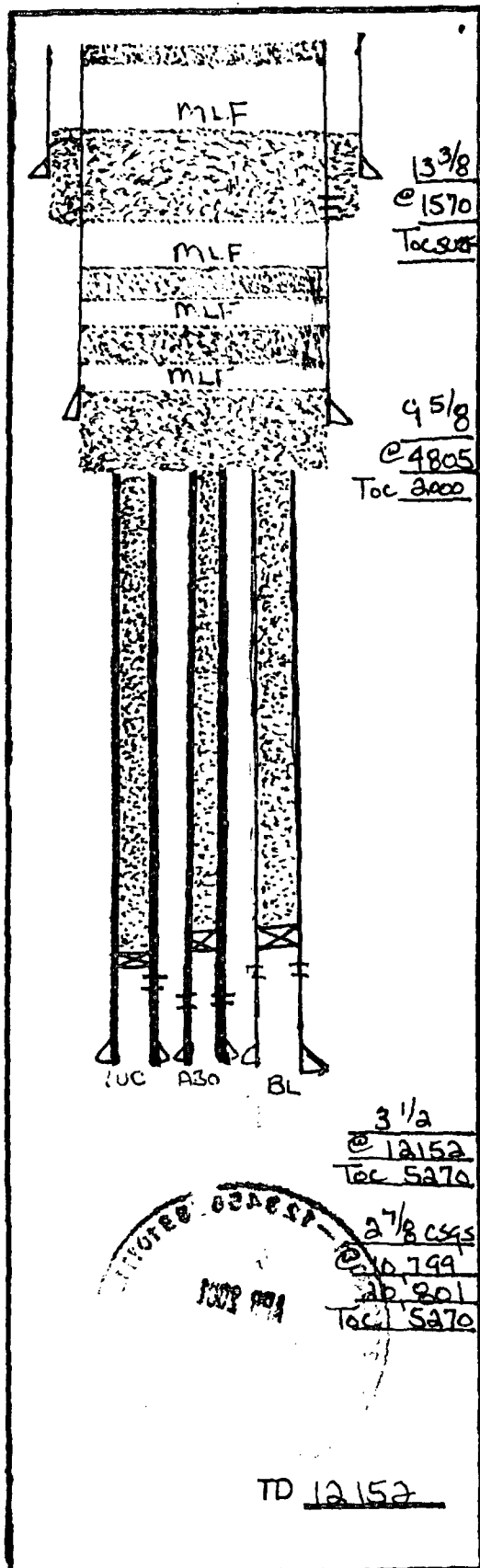
Conditions of approval, if any

MP



(1 STRING CSNG)

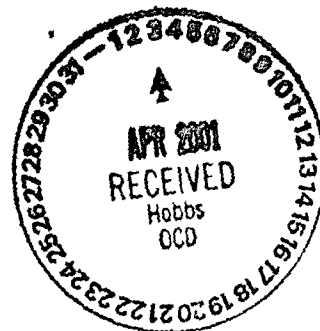
SECT 36 TWN 175 RNG 34 E
FROM 1874 N⁵L 3086 EWL
TD: 12152 FORMATION @ TD WOLF CAMP
PBTB: 11070 FORMATION @ PBTB AB0



	SIZE	SET @	TOC	TOC DETERMINED BY	
SURFACE	13 3/8	1570	SURF	CIRC	
INTMED 1	95/8	4805	2000	CBL	
INTMED 2	27/8	10,799	5270	CBL	
PROD	27/8	10,801	5270	CBL	
	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1	3 1/2	12,152	5270	CBL	
LINER 2					
	CUT & PULL @			TOP - BOTTOM	
INTMED 1			PERFS	10,331 - 10,336	
INTMED 2			OPENHOLE	-	
PROD					

RUSTLER (ANHYD)	
YATES	
QUEEN	
GRAYBURD	
SAN ANDRES	
CAPTAIN REEF	
DELAWARE	
BELL CANYON	
CHERRY CANYON	
BRISBY CANYON	
BONE SPRING	
OLORIETA	
BLINEBRY	
TUBB	
DRINKARD	
ABO	
WC	
PENN	
STRAWN	
ATOKA	
WORLDOW	
MISS	
DEVONTIAN	

[illegible]



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

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-20125
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-155-1
7. Lease Name or Unit Agreement Name: New Mexico O State NCT-1
8. Well No. 1 17
9. Pool name or Wildcat Vacuum Wolfcamp, Vacuum Upper Penn, Vacuum Devonian

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

2. Name of Operator
Texaco Exploration & Production, Inc.

3. Address of Operator
P. O. Box 3109, Midland, TX 79702

4. Well Location
Unit Letter N : 760 feet from the South line and 2080 feet from the West line
Section 36 Township 17S Range 34E NMPM Lea County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☒	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☐	
OTHER: ☐		OTHER: ☐	

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 recompletion.

- RU on Y-Side, RIH set 2 7/8" CIBP @ 9350' (Penn) above collapsed csg @ 9358' fill 2 7/8" csg w/185 Sx plug 9350-'1625' WOC Tag.
- RU on Z-Side, RIH tag CIBP @ 9300' (Devonian) fill 3 1/2" csg w/275 Sx plug 9300'-1625' WOC Tag
- RU on X-Side, RIH Tag CIBP @ 9000' (Wolfcamp) Fill 2 7/8" csg w/180 Sx plug 9000'-1625' WOC Tag.
- Cut 3 csg strings @ 1625', L/D csgs.
- Perf 9 5/8" csg w/6 holes @ 1625', Sqz 150 Sx 1625'-1200' (T-Salt- 13 3/8" shoe) WOC Tag.
- Displace hole w/MLF, 9.5# Brine w/25# gel P/BBL.
- 10 Sx Surf, Install dry hole marker.

IO APPROVES

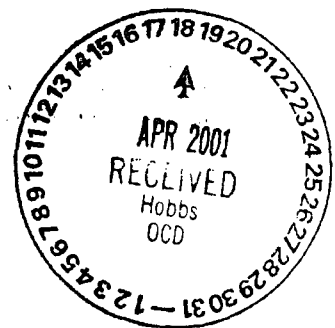
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE James T. Corbett TITLE FACILITY ENGINEER DATE 4/16/01
Type or print name JAMES T. CORBITT Telephone No. 915 688-4438
(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____
Conditions of approval, if any:

IC

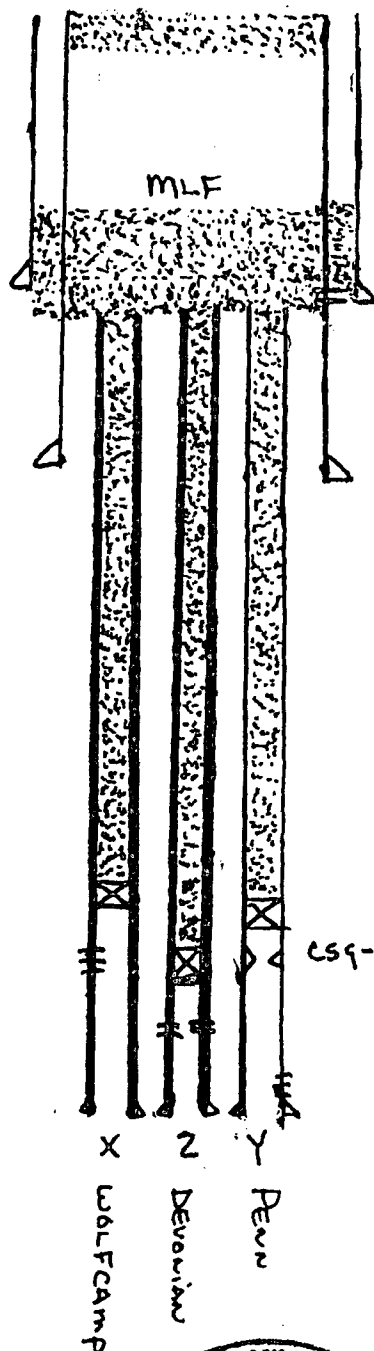
CP



(1 STRING CSNG)

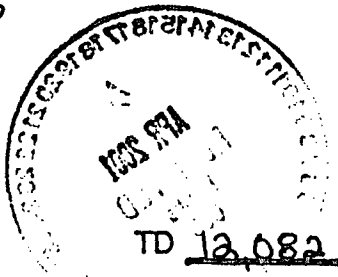
SECT 36 TWN 17S RNG 34E
FROM 760 NSL 2080 EWL

TD: 12082 FORMATION @ TD ABO
PBTD: 9358 FORMATION @ PBTD WOL Camp



CS 9 - COLLAPSED

Y Penn
Z Devonian
X Wolfcamp



	SIZE	SET @	TOC	TOC DETERMINED BY	
SURFACE	13 3/8	1612	SURF	CIRC	
INTMED 1	95/8	4750	2700	2700 TS	
INTMED 2	27/8	10,975	1625	TS	
PROD	3 1/2	12,082	1625	TS	
	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1	27/8	10,964	1625	TS	
LINER 2					
	CUT & PULL @			TOP - BOTTOM	
INTMED 1			PERFS	-	
INTMED 2			OPENHOLE	-	
PROD					

* REQUIRED PLUGS DISTRICT 1

RUSTLER (ANGHYD)	
YATES	
QUEEN	
GRAYBURG	
SAN ANDRES	
CAPTAN REEF	
DELAWARE	
BELL CANYON	
CHERRY CANYON	
BRUSHY CANYON	
BONE SPRING	
GLOBIETA	
BLUEBERRY	
TUBB	
DRINKARD	
ALBO	
WC	
PENK	
STRAWN	
ATOKA	
MOSBROW	
MISS	
DEVORIAN	

[illegible]

(1 STRING CSNG)

OPERATOR Texaco Exploration & Production

LEASENAME VACUUM GLORIETA WEST UNIT

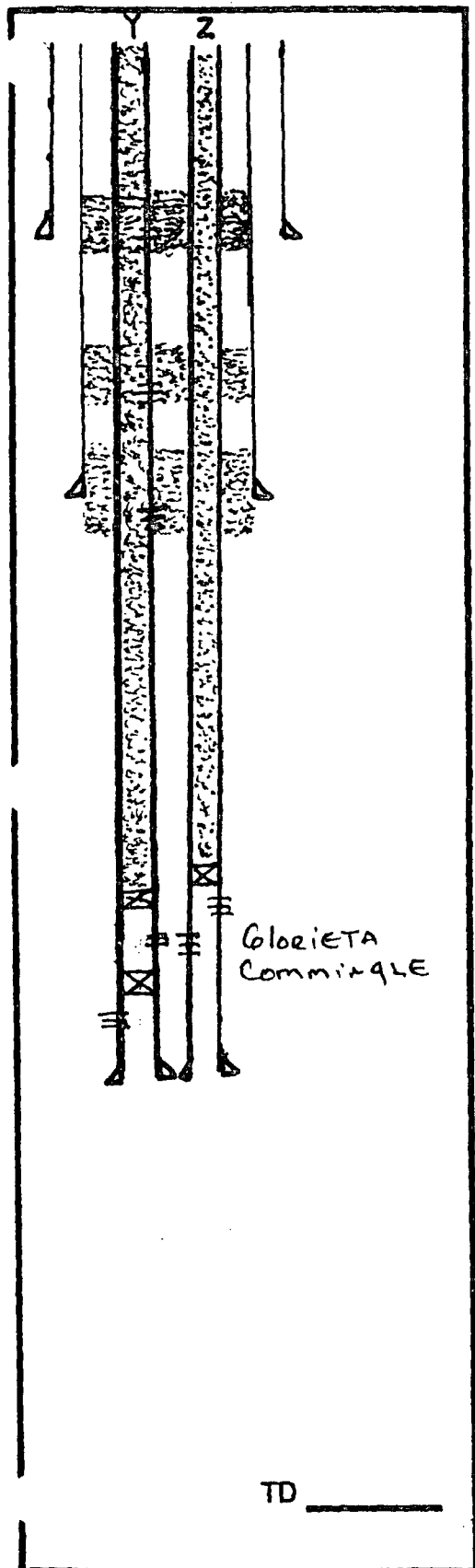
WELL # 101

SECT 36 TWN 17 S RNG 34 E

FROM 600 NASL 1900 EWL

TD: 6800 FORMATION @ TD BLINE 844

PBTD: 6766 FORMATION @ PBTD 6766

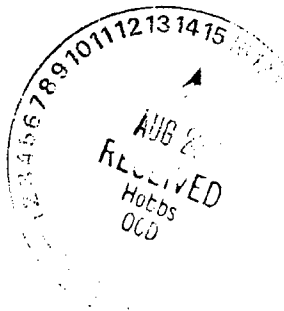


	SIZE	SET @	TOC	TOC DETERMINED BY	
SURFACE	11 3/4	1520	SUEF	CIRC	
INTMED 1	8 5/8	3300	2300	CALC	
INTMED 2	2 7/8	6794	3300	CBL	
PROD	2 7/8	6787	3300	CBL	
	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					
	CUT & PULL @			TOP - BOTTOM	
INTMED 1			PERFS	-	
INTMED 2			OPENHOLE	-	
PROD					

• **REQUIRED PLUGS DISTRICT I**

RUSTLER (ANHYD)	
YATES	
QUEEN	
GRAYBURG	
SAN ANDRES	
CAPITAN REEF	
DELAWARE	
BELL CANYON	
CHERRY CANYON	
BRUBEEY CANYON	
BONE SPRING	
GLORIETA	
ELINEBERRY	
TUBBS	
DRINKARD	
ABO	
WC	
PENN	
STRAWN	
ATOCHA	
MORROW	
LAKE	
DEVONIAN	

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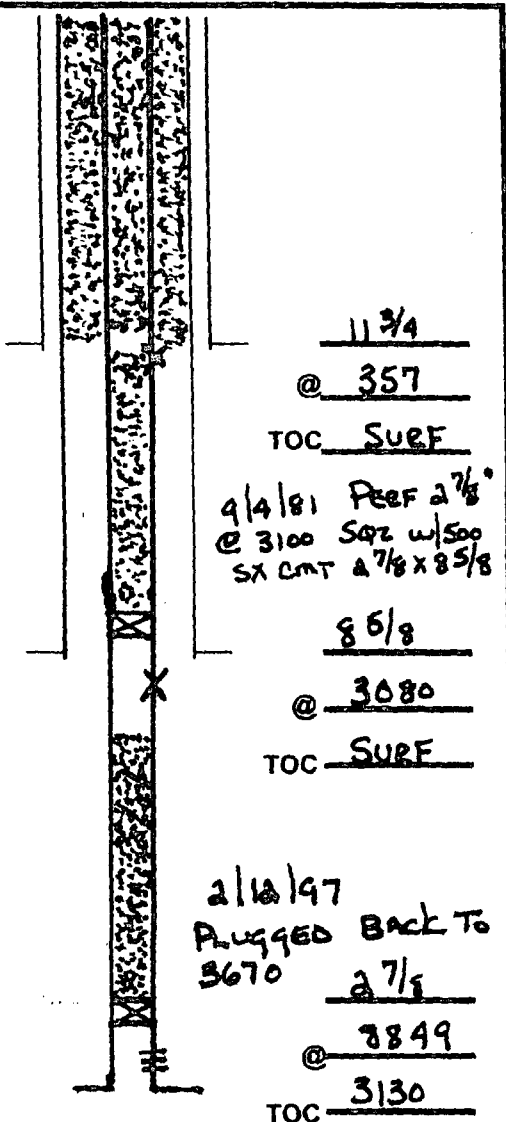


PLUGGING & ABANDONMENT WORKSHEET

(3 STRING CSNG)

OPERATOR CHEVRON USA INC.
LEASE NAME NEW MEXICO R STATE (NCT-1)
WELL # 6

SECT 6 TWN 18-S RNG 35-E
FROM 2310 MSL 760 EWL
TD 8850 FORMATION @ TD Vacuum ABO
PBDT FORMATION @ PBDT YATES



	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	11 3/4	357'	SURF	Circ
INTMED 1	8 5/8	3080	SURF	Circ
INTMED 2				
PROD	2 7/8	8849	SURF	3130

	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					

	CUT & PULL		TOP - BOTTOM
INTMED 1		PERFS	3080 - 3100
INTMED 2		OPENHOLE	
PROD			

*REQUIRED PLUGS DISTRICT

	PLUG	TYPE PLUG	SACKS CEMENT	DEPTH
RUSTLER (ANHYD)	1	YATES	65	3050
YATES	2	11 3/4 S	100	420
QUEEN				
GRAYBURG				
SAN ANDRES				
CAPTAN REEF				
DELAWARE				
BELL CANYON				
CHERRY CANYON				
BRUSHY CANYON				
BONE SPRING				
GLORIETA				
BLINBRY				
TUBE				
DRINKARD				
ABO				
WC				
PENN				
STRAWN				
ATOKA				
MORROW				
MISS				
DEVONIAN				

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2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

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. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	WELL API NO. 30-025-02224
2. Name of Operator Phillips Petroleum Company	5. Indicate Type of Lease STATE ☒ FEE ☐
3. Address of Operator 4001 Penbrook Street Odessa, TX 79762	6. State Oil & Gas Lease No. B-2317
4. Well Location Unit Letter <u>E</u> : <u>1980</u> feet from the <u>NORTH</u> line and <u>660</u> feet from the <u>WEST</u> line Section <u>35</u> Township <u>17S</u> Range <u>34E</u> NMPM County <u>LEA</u>	7. Lease Name or Unit Agreement Name: STATE 35 UNIT
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 4016' GR	8. Well No. 009
	9. Pool name or Wildcat VACUUM GRAYBURG/SAN ANDRES

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐

OTHER: ☐

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.

01. MURU Plug and Abandon Unit. NU PPCO Class 1 BOPE.
02. Gih w/ 2-3/8" ws and tag cibp @ 4030'. Mix and circulate wellbore with 9.5 Mud Laden Fluid (MLF).
03. Pump plug No. 1 - 70 sxs 3550'-4030'. Covers the San Andres, Grayburg & Queen.
04. Pump plug No. 2 - 25 sxs 3000'-2885'. Covers the TOC of production casing @ 2935'.
05. RU wireline truck. Gih and perforate 7" casing, 4 spf at 2870', 4 holes.
06. Gih w/ ws and AD-1 rental packer to 2600' and set packer.
07. Pump plug #3 - Squeeze 65 sxs cement 2870'-2720'. Displace 50' below packer. WOC & TAG. Covers the Yates.
08. Release packer & pooh. RU wireline truck and perforate 7" casing, 4 SPF at 1660', 4 holes.
09. Gih w/ ws and AD-1 rental packer to 1350' and set packer.
10. Pump plug #4 - squeeze 65 sxs cement 1660'-1492'. Displace 50' below packer. WOC & TAG. Covers the salt top and surface casing shoe.

CONTINUED ON BACK

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

SIGNATURE May Kiger for L. M. Sanders TITLE SUPERVISOR, REG./PRORATION DATE 8-10-01

Type or print name L. M. Sanders Telephone No. (915) 368-1488

(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____
Conditions of approval, if any:

THE COMMISSION MEETING NOT BEING 24
HOURS PRIOR TO THE BEGINNING OF
PLUGGING OPERATIONS FOR THIS WELL

dmr

11. Release packer, pooh to 400'. Ld workstring and packer. TIH to 400'.
12. Pump plug No. 5 – Pump surface plug 75 sxs 400'-0. Isolates fresh water.
13. Cut off casing and wellheads 3' below GL and cap well. Install Dry Hole marker.
Perform reclamation work.

**PLUG AND ABANDON WELL PROCEDURE
STATE 35 UNIT # 9**

NOTE: Cement used is Class "C", density of 14.8 ppg, yield of 1.32 cubic feet per sack.

1. Notify NMOCD at (505) 393-6161 24 hrs. prior to initiating plugging operations.
2. MIRU Plug & Abandon Package. NU PPCo. Class 1 BOPE.
3. GIH w/ 2-3/8" WS and tag CIBP @ 4030'. Mix and circulate wellbore with 9.5 Mud Laden Fluid (MLF).
4. Pump Plug No. 1. 70 sx, 3550 – 4030'. Covers the San Andres, Grayburg, & Queen.
5. LD Workstring to 3000'.
6. Pump Plug No. 2. 25 sx, 3000 – 2885'. Covers the TOC of Production casing @ 2935'.
7. LD Workstring to 2600' & POOH.
8. RU Wireline truck, GIH and Perforate 7" csg, 4 SPF at 2870', 4 holes. POOH. RD Wireline..
9. GIH w/ WS and AD-1 rental packer to 2600' & Set Packer. Attempt to establish pump in rate via 5-1/2" x 8-5/8 annulus. Maximum pressure of 1200# psi @ 2 bpm. (If unable to obtain rate notify Drlg Supt before proceeding.)
10. Pump Plug #3. Squeeze 65 sx cement 2870 - 2720'. Displace 50' below packer. WOC & TAG. Covers the Yates.
11. Release packer & POOH. RU WL truck & perforate 7" csg, 4 SPF at 1660', 4 holes. POOH. RD Wireline..
12. GIH w/ WS and AD-1 rental packer to 1350' & Set Packer. Attempt to establish pump in rate via 5-1/2" x 8-5/8 annulus. Maximum pressure of 1200# psi @ 2 bpm. (If unable to obtain rate notify Drlg Supt before proceeding.)
13. Pump Plug #4. Squeeze 65 sx cement 1660 - 1492'. Displace 50' below packer. WOC & TAG. Covers the Salt Top and Surface Casing Shoe.
14. Release Packer, POOH to 400', LD Workstring & packer. TIH to 400'
15. Pump Plug No. 5. Pump Surface plug 75 Sxs. 400 – 0'. Isolates fresh water.
16. Cut off casing and wellheads 3' below GL and cap well. Install Dry Hole marker. Perform reclamation work.

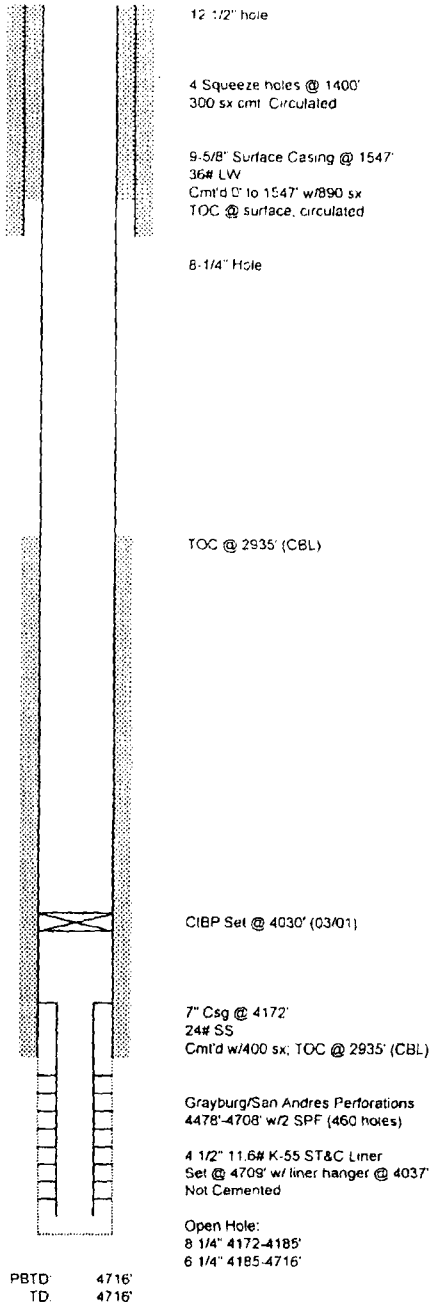
WELLBORE SKETCH
PHILLIPS PETROLEUM COMPANY - PERMIAN PROFIT CENTER

Date August 7, 2001

RKB @ 4026 8'
 DF @
 GL @ 4016 3'

Well Category	<u>One</u>		
Subarea	<u>BUCKEYE</u>		
Lease & Well No	<u>STATE 35 UNIT</u>	<u>#9</u>	
Legal Description	<u>1980' FNL & 660' FWT, Sec 35, T17S, R34E</u>		
County	<u>Lea</u>	State	<u>New Mexico</u>
Field	<u>Vacuum GB/SA</u>		
Date Spudded	<u>11/1938</u>	IPF	<u>12/30/38 24 BO, 10 MCFCG IN 6 HRS</u>
API Number	<u>30-025-02224</u>		

PPCO WM 100%



Formation Tops:	Top Salt	1710'
	Yates	2820'
	Queen	3747'
	Grayburg	4100'
	San Andres	4496'

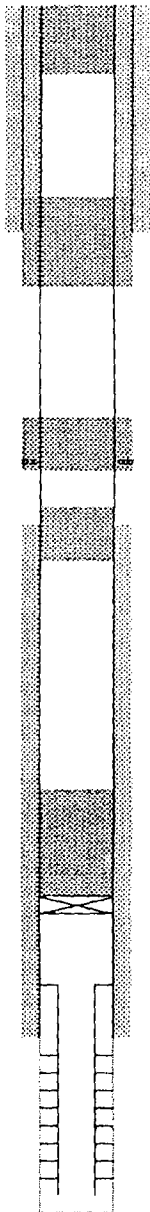
WELLBORE SKETCH
PHILLIPS PETROLEUM COMPANY - PERMIAN PROFIT C.

Date August 7, 2001

RKB @ 4026.8
 DF @
 GL @ 4016.3

Well Category One
 Subarea BUCKEYE
 Lease & Well No STATE 35 UNIT #9
 Legal Description 1980 FNL & 660 F/M, Sec 35, T17S, R34E
 County Lea State New Mexico
 Field Vacuum GB/SA
 Date Spudded 11/1938 IPI 12/30/38 74 BO, 10 MCFG IN 6 HRS
 API Number 30-025-02224

PPCO W. 100%



Plug #5, 75 sx, interval 400 - 0
(Surface Plug)
 12 1/2" hole

4 Squeeze holes @ 1400'
 300 sx cmt. Circulated

9-5/8" Surface Casing @ 1547'
 36# LW
 Cmt'd 0' to 1547' w/890 sx
 TOC @ surface, circulated

Plug #4, 65 sx, interval 1660 - 1492
(covers Top Salt & Csg shoe)

Perforate 4 SPF @ 1660', 4 holes
 Squeeze 25 sx cmt, to 1497'

8-1/4" Hole

Plug #3, 65 sx, interval 2720-2870', TOC @ 2720' (calculated)
(covers Yates)

Plug #2, 25 sx, interval 3000-2885', TOC @ 2720' (calculated)
TOC @ 2935' (CBL)

Plug #1, 70 sx, interval 4030 - 3550
(covers San Andres, Grayburg, & Queen)
 CIBP Set @ 4030' (03/01)

7" Csg @ 4172'
 24# SS
 Cmt'd w/400 sx; TOC @ 2935' (CBL)

Grayburg/San Andres Perforations
 4478'-4708' w/2 SPF (460 holes)

4 1/2" 11.5# K-55 ST&C Liner
 Set @ 4709' w/ liner hanger @ 4037'
 Not Cemented

Open Hole:
 8 1/4" 4172-4185'
 6 1/4" 4185-4716'

Formation Tops	Top Salt	1710
	Yates	2620
	Queen	3747
	Grayburg	4100
	San Andres	4496

PBTD: 4716'
 TD: 4716'

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30 025 33416
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B 2317
7. Lease Name or Unit Agreement Name State 35 Unit
8. Well Number 20
9. OGRID Number
10. Pool name or Wildcat

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. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator McGowan Working Partners, Inc.	
3. Address of Operator P O Box 55809, Jackson MS 39296-5809	
4. Well Location Unit Letter <u>J</u> : 1926 feet from the <u>south</u> line and 2430 feet from the <u>east</u> line Section 35 Township 17S Range 34E NMPM County Lea	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒	REMEDIAL WORK ☐ ALTERING CASING ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. 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 recompletion.

- 10/28/03 - Run in hole, tag CIBP at 4360', dump bale 5 sacks Class A on CIBP
- Fill casing with 9.5# mud $\pm$ 4316' to 3460'
- Run in hole with packer locate casing leaks, squeeze 50 sacks Class A out and leave 23 sacks inside with cement 200' above casing leak
- 10/29/03 - Tag plug and pressure test to 500 psi
- Fill casing with 9.5# mud $\pm$ 3120' to 1500'
- Pump 23 sacks Class A cement 1500' to 1300' - TAG
- Fill casing with 9.5# mud $\pm$ 1300' to 60'
- 10/30/03 - Pump 10 sacks Class A cement plug 60 - 4'
- Cut off casing 4.0' below surface; weld 1/2" steel plate on 4.0" pipe 4.0' above ground level
- Weld on legal P&A marker.

THE COMMISSION MUST BE NOTIFIED 12 HOURS PRIOR TO THE BEGINNING OF PLUGGING OPERATIONS FOR THE C-103 TO BE APPROVED.

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

SIGNATURE Arnold H. Chapman TITLE Regulatory Officer DATE 10/07/03

Type or print name Arnold H. Chapman E-mail address: chappy@mcgowanwp.com Telephone No. 601-982-3444
(This space for State use)

APPROVED BY Harry W. Wink TITLE OC DISTRICT SUPERVISOR/GENERAL MANAGER DATE OCT 16 2003
Conditions of approval, if any:

SPUD 08/05/96

RKB 4032'
DF 4031'
GL 4016'

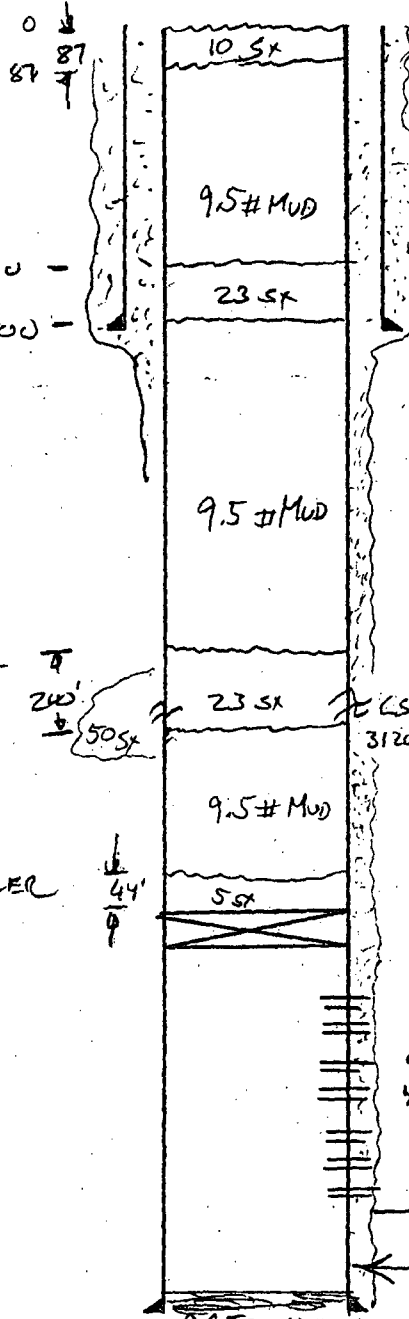
LEGAL DESCRIPTION

1926' FSL & 2430' FEL
Sec 35, T-17S R-34E
LEA COUNTY, N.M.
 $60'(.1349)/1.18 = 75'$

PROPOSED PQA PLAN
STATE 35 UNIT No. 20
Formerly ME Hole No 24
API 30 025 33416

VACUUM FIELD LEA COUNTY N.M.

NTS
10/07/03
AL



8 5/8" 24.0# To 1599'
IN 12 1/4" Hole w/ 850 SX
TOC @ SURF CIRC 124 SX

$200(.1349)/1.18 = 235'$

LOCATE CSG LEAK & SQZ T
50 SX CLASS A OUT & 200'
LEAVE 23 SX INSIDE
WITH CMT 200 FEET
ABOVE CSG LEAK
 $200(.1349)/1.18 = 235'$
5 SX PLACED BY 134 LER

CSG LK 04/02 SET CIBP @ 4360'
3120-3486 Tested CSG Using PKR & Tbg
CSG FROM 3120-3456' Failed
PRESSURE TEST.

CIBP @ 4360'

4410-4438' w/2SPF 56 Holes
4442-4468' w/2SPF 52 Holes
4592-4606' w/2SPF 28 Holes
4616-4626' w/2SPF 20 Holes
4660-4678' w/2SPF 36 Holes
4682-4710' w/2SPF 50 Holes
4717-4742' w/2SPF 50 Holes

5 1/2" 15.5# To 5000'
IN 7 7/8" Hole w/ 1050 SX
TOC @ SURF CIRC 1475X
Q. 0240 BPF (0.1349 CFPF)
ID - 4.950

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025-02253
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 857948
7. Lease Name or Unit Agreement Name: Vacuum Grayburg San Andres Unit
8. Well No. 28
9. Pool name or Wildcat Vacuum
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3993 DF

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

2. Name of Operator
Chevron

3. Address of Operator
15 Smith Road Midland, Texas 79705

4. Well Location

Unit Letter I : 2310 feet from the South line and 330 feet from the East line

Section 1 Township 18-S Range 34-E NMPM County Lea

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☒	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☐	
OTHER: ☐		OTHER: ☐	

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 attached procedure

**THE OIL CONSERVATION DIVISION MUST
BE NOTIFIED 24 HOURS PRIOR TO THE
BEGINNING OF PLUGGING OPERATIONS.**



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

SIGNATURE P. W. Minchew TITLE Operations Supervisor DATE 7/26/2005

Type or print name P. W. Minchew
(This space for State use)

Telephone No.

APPROVED BY Harry W. Wink TITLE FIELD REPRESENTATIVE II/STAFF MANAGER
Conditions of approval, if any:

JUL 28 2005

VI- Procedure

- 1 **Pull RBP:**
TIH w/ Retrieving tool to top of RBP. Wash sand off the RBP. Fish RBP. TOH and L/D tools.
- 2 **Set Bottom Plug**
R/U wireline. TIH w/ CIBP. Set @ 4030'. R/D wireline.
TIH w/ 2 7/8" open ended tbg. Spud 20 sacks cl "C" cmt (4.65 bbls) on top of CIBP.
Estimated plug thickness of 200'. TOH to 2930'.
- 3 **Base of Salt Cement Plug:**
Set open ended tubing @ 2930'. Spud 30 Sacks of cl "C" cmt (300', ~7 bbls).
Pull tubing to 1800' feet. WOC.
TIH to tag top of plug. Pull tbg out of hole.
- 4 **Injection test:**
TIH w/ 5 1/2" packer and 2 7/8" working string. Set packer @ ~1800'.
Perform injection test. Make sure that you can squeeze leaks. If can not get rate go to step 6.
- 5 **Squeeze Casing Leak @ 2340'-2384':**
R/U wireline. Set CR @ 1800'. R/D wireline. TIH w/ stinger and 2 7/8" tubing. Sting into CR. Pump ~100 Sx cl "C" cmt (23 bbls slurry). Sting out.
Pump 40 Sacks cl "C" cmt (9.3 bbls) @ 1800'. Pull to Surface. WOC.
TIH w/ 2 7/8" open ended tbg. Tag plug (Estimated top @ 1400'). TOH to 400'.
- 6 **Surface Plug:**
Set open ended tbg @ 400'. Pump ~40 sacks cl "C" cmt to surface. Pull tubing out.
- 6 Cut casing and cap off well. Well P&A.

Use

Prepared by
Mario A. Ballesteros

CURRENT WELLBORE DIAGRAM

Created: 6/30/2005 By: MAB
 Updated: By: _____
 Lease: VGSAU
 Bottomhole Location: 2310' FSL & 330' FEL
 County: Same
 Current Status: Active Oil Well
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 28
 Unit Ltr: _____
 St Lease: NM
 Elevation: _____

Field: VACUUM
 Sec: 1
 Sec: TSH/Range: 18S-34E
 API: 30-026-02263
 Cost Center: _____
 TEPI: _____
 MWP: _____

Surface Cas.
 Size: 8 5/8"
 Wt.: 32x, 10V LW
 Set @: 1503
 Sx cm: 300 Sx
 Circ: Yes
 TOC: Surface
 Hole Size: 10 3/4"

Production Casing
 Size: 5 1/2"
 Wt.: 17x, SMLS
 Set @: 4086
 Sx cm: 200 Sx
 Circ: No
 TOC: 2830 CBL
 Hole Size: 6 3/4"

TD: 4710

Perforations:
 Greyburg San Andres
 Open Hole: 4086-4710

Casing Caliber Log (Nov-2000):
 1826-1826' Bad Corrosion
 2070-2100' Bad Casing
 4250-4300' Holes
 2100-2300' Corrosion & Pitting

Perforations:
 4085-4220' 4 3/4" OPEN HOLE
 4220'-4390' 6 1/4" OPEN HOLE (Nov-00)
 4390'-4710' 4 3/4" OPEN HOLE

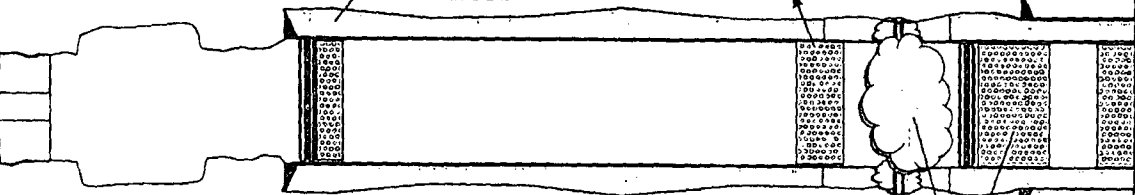
Top	Top Depth, ft	Interval	Net
GB Marker	4,105		
GB DoI Top	4,200	33	20
GB DoI Bot	4,233		
San Andres	4,267	153	90
LSA	4,420	272	130
OW	4,692		
PBTD	4,655		
TOTAL	458		280
Gross / Net Ratio			52.4%

WBS-WO-VGSAU 28 P & 231005 sigs

4,428

52.4%

TD: 4710



Surface Plug:
 Balanced Plug: 400'
 Top Plug @ Surface
 Sacks Cmt: 40 cl °C°

Base of Salt:
 Balanced Plug: 200'
 Top Plug: 2830'
 Bottom plug: 2930'
 Sacks Cmt: 30 cl °C°

Bottom Plug:
 CIP @ 4030'
 Balanced Plug: 200'
 Top Plug: 3830'
 Sacks Cmt: 20 cl °C°

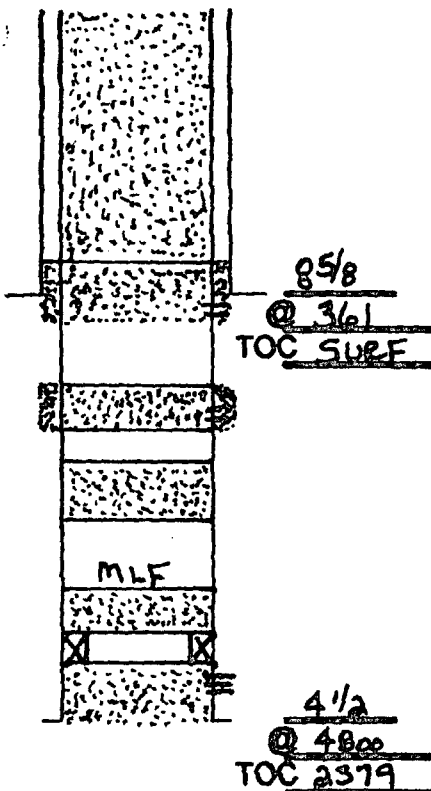
KB: _____
 DF: 3,993
 GL: _____
 Original Spud Date: _____
 Original Compl. Date: 5/31/1940
 Kelly Bushing: _____

Brief Workover History:
 5/21/940 Initial Completion
 2/29/74 Casing Leak Repair: Set CR @ 1850' and squeeze leak 1/1886-2480' w/ 350 Sx cl °C° cement circulated to surface. Squeezed again w/ 150 Sx °C° cement. Held OK. Squeeze leak @ 1870' w/ 150 Sx °C° cement. Test 1/2480' to surface. Held OK 11000 #/30 min)
 2/29/74 Frac Open Hole: Frac w/ 18,000 # sand C/O to 4710'. Ran GR-N log
 9/22/72 Acid Open Hole: Pump 12,000 gls 20% HCl in 4 sigs w/ 6000 RS between sigs.
 5/8/797 Fracture Treatment: Frac open hole w/ 75,000 gal XL gel, 60,000 lbs 20/40 sand C/O to 4685'. Lost circulation @ 4685'. Backed Off at 4654' leaving junk in the hole. RWTP.
 5/19/92 Acid Open Hole: Tagged @ 4653'. Spot 500 gls 15% HCl. Pump 6,000 gls 15% HCl. Avg Pressure= Vacuum. Avg rate=4.4 bpm. SIS.
 11/12/2000 Under Beam Repair Casing Leak, C/O & Acid: Tagged @ 4652' w/ 4 3/4" bit. Under Beam 1/4270' to 4590'. C/O w/ 4 3/4" from 4600'-4655'. Acid open hole w/ 6,000 gls 15% + 3500 lbs RS. Found csg leak @ 2144'-2500'. Ran log. No bond @ 2830'-1857'. Ran PAL (csg inspection log). Csg in bad condition 1/1800' to 3890'. Set CR @ 1796' and pump 6000 Sx cement. Tag cent @ 1880'. Drill cent to 2284'. Tested csg from 2530' to 4010'. Tested Good. Spot 160 Sx cement @ 2500' (balance plug). Tag @ 966'. Drill to 2561'. Test and chart to 500 psi. Remove RBP @ 4,033'. Run sub.
 4/24/2002 Pump Upgrade to Larger Pump. No Clean Out.
 6/17/2003 Stimulation and Casing Repair: Found leaks between 2274' and 2525'. Balance cement plug. Leaked 155 # / 30min. Balance plug again w/ 170 Sx Pecos Valley Lite. Dropped 110 psi/ 30 min. Swab to test leak. No fluid. Get OCD approval to put back on pump.
 7/8/05- 7/25/05: DHS / Stuck Pump / Casing Leak : Pump Stuck @ 2347'. Free Point. Acid. Cut log. TH w/ Divershot. Work fish. TH to cut pump. Fish got loose. TOH w/ Fish. Everything came out. Isolate leaks 1/2340 to 4384'. Pump 15 bbls. Pressured up to 8000'. Lost pressure to 2000' in 10 min. Pump 7 bbls cement WOC. TH w/ 4 3/4" bit and tag @ 2381'. Soft. Not good. Swab for fluid entry. Got flow. TH to spud cement. Pump 100 Sx (double to first time) 1/ °C° cement. WOC. TH w/ bit and tag @ 2188'. Soft cement and flow started again. Decided to P&A immediately.

(2 STRING CSNG)

OPERATOR TEXACO EXPLORATION & PRODUCTION
LEASENAME VACUUM GRAYBURG SAN ANDRES

SECT: 1 TWN 18S RNG 34E
FROM: 2630 NSL 1310 EWL
TD: 4800 FORMATION @ TD GRAY BURK
PBDT: 4790 FORMATION @ PBDT SAN ANTONIO



TD 4800

	SIZE	SET @	TOC	TOC DETERMINED BY	
SURFACE	8 5/8	361	SURF	CIRC	
INTMED 1					
INTMED 2					
PROD	4 1/2	4800	2379	CBL	
	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					
	CUT & PULL @			TOP - BOTTOM	
INTMED 1			FEET	4435 - 4722	
INTMED 2			OPENHOLE	-	
PROD					

***REQUIRED PLUGS DISTRICT 1**

HUSTLER (AMFIB)	
YATES	
QUEEN	
GRAYBORG	
SAN ANGELO	
CAPTAIN REEF	
DELAWARE	
BELL CANYON	
CERRY CANYON	
BRISTY CANYON	
BOYS SPIRO	
KLOSKEA	
ELKRIEY	
TUES	
DRINKARD	
ABO	
YPC	
PENK	
STRAWN	
ATOKA	
MOONLW	
LORE	
DOVORGEAT	

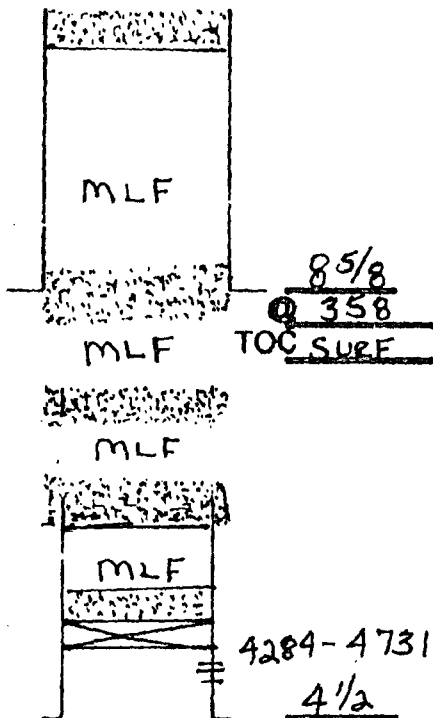
FLUG	TYPE FLUG	SACKS CMNT	DEPTH
EXAMPLE			
FLUG 01	OH	35 SXS	6400'
FLUG 02	SHOS	50 SXS	5350'-5450'
FLUG 03	CIBP/35'		4800'
FLUG 04	CIBP	25 SXS	4600'
FLUG 04	STUB	50 SXS	3600'-3700'
FLUG 05	RETR 80Z	200 SXS	400'
FLUG 06	SURF	10 SXS	0-10'
FLUG 01	GARY BEE	75 SX	4200-4722
FLUG 02	S. ANDRES	50 SX	4200-3600
FLUG 03	YATES	25 SX	2800-2600
FLUG 04	T-SALT	50 SX	1400-1200
FLUG 05	R/S/B S	50 SX	410-300
FLUG 06	SURF	30 SX	300-SURF
FLUG 07			
FLUG 08			
FLUG 09			
FLUG 10			
FLUG 11			
FLUG 12			
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FLUG 98			
FLUG 99			
FLUG 100			

PLUGGING & ABANDONMENT WORKSHEET

(2 STRING CSNG)

OPERATOR TEXACO EXPLORATION & PRODUCTION
LEASENAME VACUUM GRAYBURG SAN ANTONIO UNIT

SECT 1 TWN 18-S RNG 34-E
FROM 135 (N)SL 2580 EWL
TD: 4800 FORMATION @ TD SAN ANTONIO
PBTD: 4798 FORMATION @ PBTD



4284-4731
4 1/2
@ 4800
TOC 2450

TD 4800

	SIZE	SET @	TOC	TOC DETERMINED BY
SURFACE	85/8	358	SURF	CIRC
INTMED 1	4 1/2"	4800	2450	C.B.L.
INTMED 2				
PROD				

	SIZE	TOP	BOT	TOC	DETERMINED BY
LINER 1					
LINER 2					

	CUT & PULL @	TOP - BOTTOM
INTMED 1		PERFS -
INTMED 2		OVERHOLE -
PROD	2400	

*REQUIRED PLUGS DISTRICT *

PLUG	TYPE	SACKS	DEPTH
EXAMPLE			
PLUG #1	OH	33 SXS	6400'
PLUG #2	SHOE	30 SXS	3350'-3450'
PLUG #3	CIBP/55'		4800'
PLUG #4	CIBP	23 SXS	4800'
PLUG #5	STUB	30 SXS	3600'-3700'
PLUG #6	RETNR 8QZ	200 SXS	100'
PLUG #7	SURF	10 SXS	0-10'
PLUG #8	CIBP	25 SXS	4200-3900
PLUG #9	B-SALT	60 SX	2400-2200
PLUG #10	T-SALT	60 SX	1300-1000
PLUG #11	SHOE	75 SX	425-250
PLUG #12	SURF	10 SX	10'-SURF
PLUG #13			
PLUG #14			
PLUG #15			
PLUG #16			
PLUG #17			
PLUG #18			
PLUG #19			
PLUG #20			
PLUG #21			
PLUG #22			
PLUG #23			
PLUG #24			
PLUG #25			
PLUG #26			
PLUG #27			
PLUG #28			
PLUG #29			
PLUG #30			

PLUG	TYPE	SACKS	DEPTH
EXAMPLE			
PLUG #1	OH	33 SXS	6400'
PLUG #2	SHOE	30 SXS	3350'-3450'
PLUG #3	CIBP/55'		4800'
PLUG #4	CIBP	23 SXS	4800'
PLUG #5	STUB	30 SXS	3600'-3700'
PLUG #6	RETNR 8QZ	200 SXS	100'
PLUG #7	SURF	10 SXS	0-10'
PLUG #8	CIBP	25 SXS	4200-3900
PLUG #9	B-SALT	60 SX	2400-2200
PLUG #10	T-SALT	60 SX	1300-1000
PLUG #11	SHOE	75 SX	425-250
PLUG #12	SURF	10 SX	10'-SURF
PLUG #13			
PLUG #14			
PLUG #15			
PLUG #16			
PLUG #17			
PLUG #18			
PLUG #19			
PLUG #20			
PLUG #21			
PLUG #22			
PLUG #23			
PLUG #24			
PLUG #25			
PLUG #26			
PLUG #27			
PLUG #28			
PLUG #29			
PLUG #30			

12/14/10
Received
Mettler
001
12/14/10

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

March 4, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-24366
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. B-1733-1
7. Lease Name or Unit Agreement Name Vacuum Grayburg San Andres Unit
8. Well Number 50
9. OGRID Number
10. Pool name or Wildcat Vacuum Grayburg San Andres

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" FORM C-104 FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☐ Other Injection ☐	
2. Name of Operator Chevron USA, Inc.	
3. Address of Operator P.O. Box 7139, Midland, TX 79708	
4. Well Location Unit Letter <u>G</u> : <u>1330</u> feet from the <u>North</u> line and <u>1330</u> feet from the <u>East</u> line Section <u>1</u> Township <u>18S</u> Range <u>34E</u> NMPM <u>Lea</u> County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	

Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be attached)

Pit Location: UL G Sect 1 Twp 18S Rng 34E Pit type Steel Depth to Groundwater 107' Distance from nearest fresh water well Over 1000'
Distance from nearest surface water 133' feet from the North line and 1330 feet from the East line (Steel Tank)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒	REMEDIAL WORK ☐ ALTERING CASING ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☐
OTHER: ☐	OTHER: ☐

13. 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 recompletion.

1. Notify OCD 24 hrs prior to MI and RU.
2. RIH tag TOC at 4003' and spot 20sx cement plug from 4003'-3850'.
3. Displace hole w/MLF, 9.5# Brine w/12.5# gel P/BBL.
4. Perf and squeeze 75sx cement plug from 2700'-2500' (B-Salt) WOC Tag.
5. Perf and squeeze 75sx cement plug from 1650'-1450' (T-Salt) WOC Tag.
6. Perf and squeeze 55sx cement plug from 450'-250' (shoe) WOC Tag.
7. Perf and squeeze 50sx cement plug from 200'-surface. (WB, surface)

8. Install dryhole marker.

THE OIL CONSERVATION DIVISION MUST
BE NOTIFIED 24 HOURS PRIOR TO THE
OF PLUGGING OPERATIONS.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE M. Lee Roark TITLE Agent DATE 4-24-2007
Type or print name M. Lee Roark E-mail address: Telephone No. 432-561-8600

(This space for State use)

APPROVED BY Harry W. Winters
Conditions of approval, if any:

TITLE OC FIELD REPRESENTATIVE II/STAFF MANAGER DATE APR 25 2007

VGSAU #50 Wellbore Diagram

Created: 03/01/06 By: C. A. Irlie
 Updated: By:
 Lease: Vacuum Grayburg San Andres Unit
 Field: Vacuum Grayburg San Andres Unit
 Surf. Loc.: 1,330' FNL & 1,330' FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Oil Well

Well #: 50 St. Lse: B-1733-1
 API: 30-025-24366
 Unit Ltr.: G Section: 1
 TSHP/Rng: S-18 E-34
 Unit Ltr.: Section:
 TSHP/Rng:
 Directions: Buckeye, NM
 Chevno: FH0891

Surface Casing

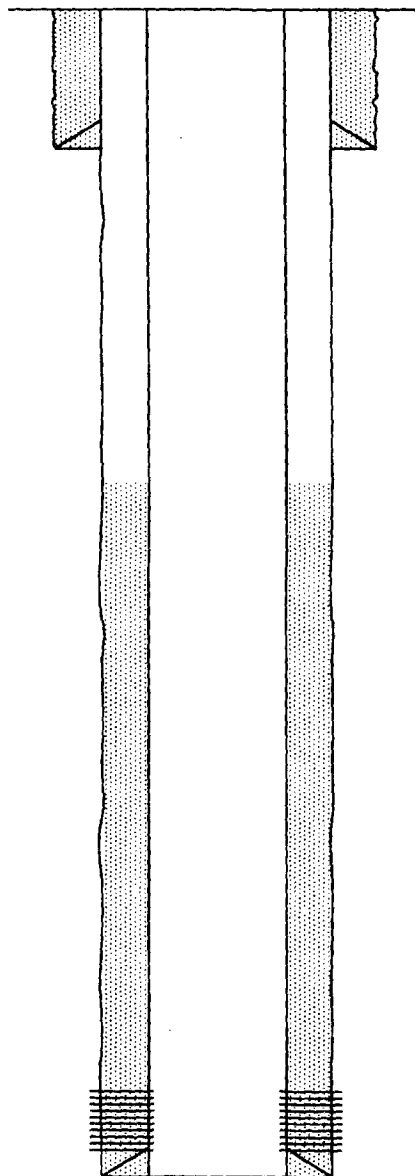
Size: 8 5/8"
 Wt., Grd.: 20#, K-55
 Depth: 354'
 Sxs Cmt: 210
 Circulate: Yes
 TOC: Surface
 Hole Size: 11"

Production Casing

Size: 5 1/2"
 Wt., Grd.: 14#, J-55
 Depth: 4,800'
 Sxs Cmt: 500
 Circulate: No, 200%
 TOC: 2,000
 Hole Size: 7 7/8"

Perforations

4133-48, 56-62, 76-80, 92-96,
 4200-12, 18-22, 26-29, 32-36,
 39-43, 45-51, 54-62, 65-71, 91-95
 4,320' - 4,358'
 4389, 94, 98, 4402, 28, 33, 40, 48,
 73, 80, 94, 4503, 21, 25, 30, 36,
 41, 47, 56, 63, 80, 92, 95, 4675,
 82, 90, 4703, 33, 43



KB:
 DF:
 GL: 3,990'
 Ini. Spud: 02/19/73
 Ini. Comp.: 03/07/73

History

3/7/73 Ini Comp: Perf 4389, 94, 98, 4402,
 28, 33, 40, 48, 73, 80, 94, 4503, 21, 25, 30,
 36, 41, 47, 56, 63, 80, 92, 95, 4675, 82, 90,
 4703, 33, 43, acid 8000 gls 20% NEA 54
 bls.
 4/11/83 Conv to Inj: 500 gls 15% NE, plastic
 coated tbg, pkr 4344, inj.
 3/6/86 Perf & Stim: CO 4763, Perf 4320-
 4358, acid perfs 8000 gls 15% NEFE 5000#
 RS.
 4/9/96 Perf & Stim: CO 4777, pkr 4188, acid
 3300 gls 20% NEFE HCl, perf 4133-48, 56-
 62, 76-80, 92-96, 4200-12, 18-22, 26-29, 32-
 36, 39-43, 45-51, 54-62, 65-71, 91-95, RBP
 4308, pkr 4090, acid 3300 gls 20% NEFE
 HCl, pkr 4047.
 5/25/00 Stim: Tag 4100, CO 4755, leak 444-
 475, sqz, drill, test fail, sqz, drill, pkr 4000,
 acid 7000 gls 20% NEFE 3500# RS, pkr
 4068, chart fail, string mill 4214, mill tight
 spot, pkr 4032, chart good, rel pkr, pkr in,
 chart fail, duoline 1 bad jt. csg leak, sqz,
 drill, pkr 4035.
 5/06- Found bad cgs ~450'-2400'. Left 1-10'
 jt under adaptor, rigged down.

PBTD: 4,788'
 TD: 4,800'

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: 18S Range: 34E Sections: 1

NAD27 X: Y: Zone: ☐ Search Radius:

County: LE ☐ Basin: ☐ Number: Suffix:

Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic ☒ All

POD / Surface Data Report

Avg Depth to Water Report

Water Column Report

Clear Form

WATERS Menu

Help

AVERAGE DEPTH OF WATER REPORT 04/24/2007

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg
L	18S	34E	01				5	100	115	107

Record Count: 5

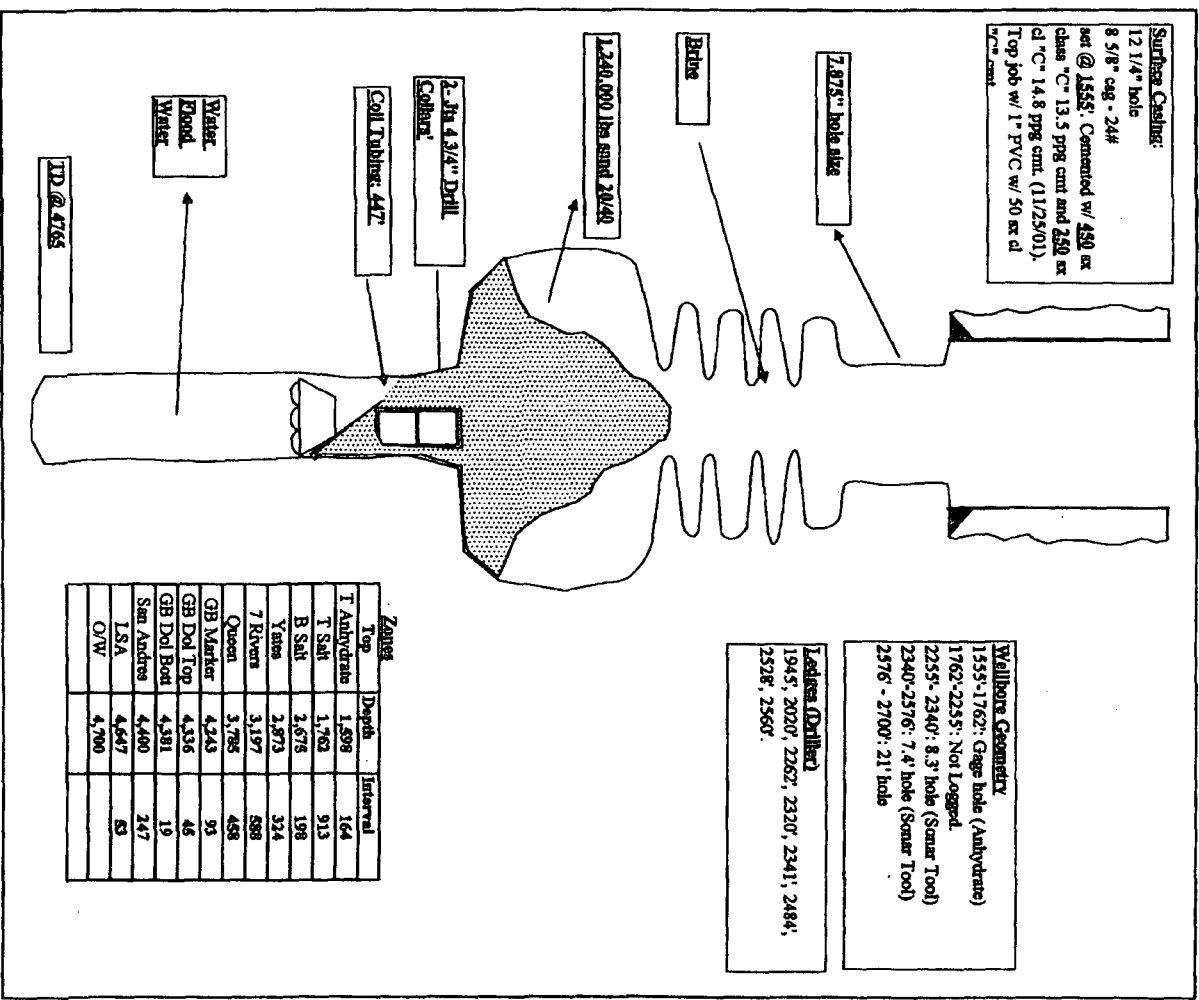
PLEASE SEE NEW WORK FILE
30-025-35687

VCSAU 211

ATTACH
C 103

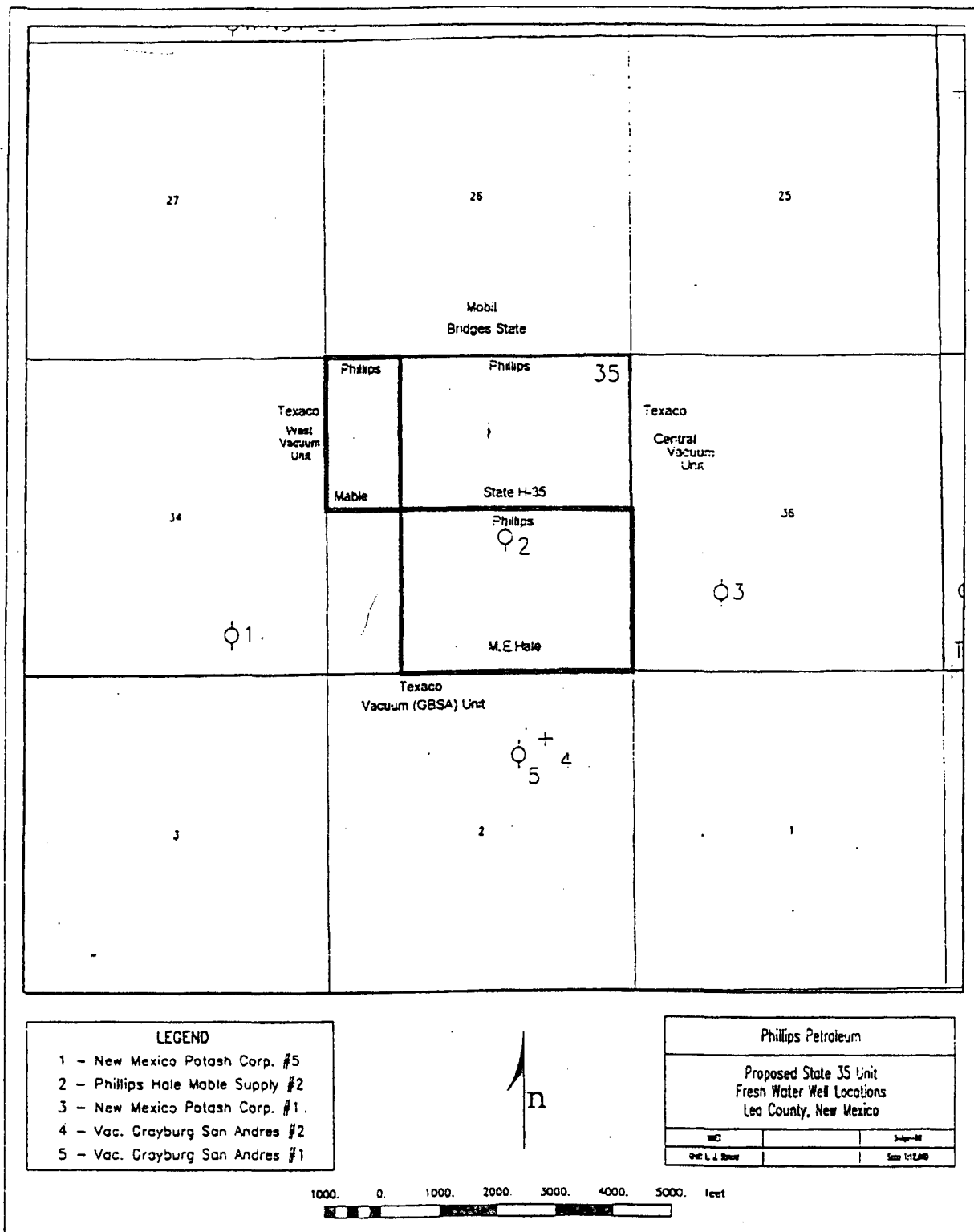
710' FWL & 1180' FWL
SBC 1, TWIN 18-4, Range 34-E, County Line
ELEVATION: 3995' GL, 4009' KB
Completed:

9/19 - 15005X CLH
9/23 TOG @ 2700'
10/8 25005X CLC
10/19 TOG @ 2671'
10/10 25005X CLC
10/13 TOG @ 2674
10/15 25005X CLC
10/16 TOG @ 2650
10/22 333882
10/23 TOG @ 2453'



Zones		
Top	Depth	Interval
T Anhydrite	1,598	164
T Salt	1,763	913
B Salt	2,676	198
Yates	2,873	324
7 Rivers	3,197	324
Queen	3,785	458
GB Marker	4,243	93
GB Dol Top	4,336	45
GB Dol Bot	4,381	19
San Andres	4,400	247
ISA	4,647	53
O/W	4,700	

2/4/04 - 400,000 lbs. sand
2/5 - TOG @ 2056'
2/6 - 110,000 lbs.
2/7 - TOG @ 2056'
2/9 - 94,000 lbs
2/9 - TOG @ 2056'
2/11 - 4005X cmt
2/16 - TOG @ 2018'
2/23 - TOG @ 2037'
2/23 - 5000 lbs
2/23 - TOG @ 2037'
2/23 - 48000 lbs.
2/24 - TOG @ 2178'
2/24 - 4005X cmt
2/25 - TOG @ 2178'
2/25 - 52,042 + 57,268
2/26 - TOG @ 2148'
2/26 - 127,350 lbs.
2/27 - TOG 2104'
2/27 - 20548 300 ps'



UNICHEM

A Division of BJ Services Company

Lab Test No : 9462

Phillips

Sample Date : 3/26/96

Lab Date In : 3/28/96

Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : Potash

#5

Specific Gravity : 1.000

Total Dissolved Solids : 193

pH :

Conductivity (uohms):

Ionic Strength : 0.006

Cations: mg/l

Calcium (Ca++): 51

Magnesium (Mg++): 22

Sodium (Na+): 18

Iron (Fe++): 0.03

Dissolved Iron (Fe++):

Barium (Ba++): 0.30

Strontium (Sr):

Manganese (Mn++): 0.05

Resistivity :

Anions:

Bicarbonate (HCO₃-):

Carbonate (CO₃-):

Hydroxide (OH-): 0

Sulfate (SO₄-): 38

Chloride (Cl-): 100

Gases: ppm

Carbon Dioxide (CO₂):

Oxygen (O₂):

Hydrogen Sulfide (H₂S):

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature

CaCO₃ SI

CaSO₄ SI

86F 30.0C

104F 40.0C

122F 50.0C

140F 60.0C

168F 70.0C

176F 80.0C

Comments :

If you have any questions or require further information, please contact us.

Sincerely,

Paul Gonzalez

Laboratory Technician

cc: Jay Brown

Joe Hay

UNICHEM

A Division of BJ Services Company

Lab Test No : 9464

Phillips

Sample Date : 3/26/96

Lab Date In : 3/28/96

Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : Halo Mable

S.O. #2

Specific Gravity : 1.000

Total Dissolved Solids : 198

pH :

Conductivity (uohms):

Ionic Strength : 0.006

Cations:		mg/l
Calcium	(Ca++):	50
Magnesium	(Mg++):	19
Sodium	(Na+):	10
Iron	(Fe++):	0.40
Dissolved Iron	(Fe++):	
Barium	(Ba++):	0.20
Strontium	(Sr):	
Manganese	(Mn++):	0.07
Resistivity :		

Anions:		
Bicarbonate	(HCO ₃ -):	
Carbonate	(CO ₃ --):	
Hydroxide	(OH-):	0
Sulfate	(SO ₄ --):	50
Chloride	(Cl-):	90

Gases:		ppm
Carbon Dioxide	(CO ₂):	
Oxygen	(O ₂):	
Hydrogen Sulfide	(H ₂ S):	

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature		CaCO ₃ SI	CaSO ₄ SI
86F	30.0C		
104F	40.0C		
122F	50.0C		
140F	60.0C		
168F	70.0C		
176F	80.0C		

Comments :

If you have any questions or require further information, please contact us.

Sincerely,



Laboratory Technician

cc: Jay Brown
Joc Hay

UNICHEM

Division of BJ Services Company

Lab Test No : 9461

Phillips

Sample Date : 3/26/96

Lab Date In : 3/28/96

Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : Potash

#1

Specific Gravity : 1.000

Total Dissolved Solids : 265

pH :

Conductivity (uohms):

Ionic Strength : 0.008

Cations:		mg/l
Calcium	(Ca++):	59
Magnesium	(Mg++):	23
Sodium	(Na+):	0
Iron	(Fe++):	0.07
Dissolved Iron	(Fe++):	
Barium	(Ba++):	0.40
Strontium	(Sr):	
Manganese	(Mn++):	0.39
Resistivity :		

Anions:		
Bicarbonate	(HCO ₃ -):	
Carbonate	(CO ₃ --):	
Hydroxide	(OH-):	0
Sulfate	(SO ₄ --):	43
Chloride	(Cl-):	140

Gases:		ppm
Carbon Dioxide	(CO ₂):	
Oxygen	(O ₂):	
Hydrogen Sulfide	(H ₂ S):	

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature	CaCO ₃ SI	CaSO ₄ SI
86F 30.0C		
104F 40.0C		
122F 50.0C		
140F 60.0C		
168F 70.0C		
176F 80.0C		

Comments :

If you have any questions or require further information, please contact us.

Sincerely,



Laboratory Technician

cc: Jay Brown
Joe Hay

UNICHEM

Division of BJ Services Company

Lab Test No : 9459

Phillips

Sample Date : 3/26/96

Lab Date In : 3/28/96

Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : VGSAU

WSW #2

Specific Gravity : 1.000
Total Dissolved Solids : 249
pH :
Conductivity (uohms):
Ionic Strength : 0.008

Cations: mg/l
Calcium (Ca++): 66
Magnesium (Mg++): 24
Sodium (Na+): 16
Iron (Fe++): 0.50
Dissolved Iron (Fe++):
Barium (Ba++): 0.30
Strontium (Sr):
Manganese (Mn++): 0.06
Resistivity :

Anions:
Bicarbonate (HCO₃-):
Carbonate (CO₃--):
Hydroxide (OH-): 0
Sulfate (SO₄--): 45
Chloride (Cl-): 130

Gases: ppm
Carbon Dioxide (CO₂):
Oxygen (O₂):
Hydrogen Sulfide (H₂S):

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature	CaCO ₃ SI	CaSO ₄ SI
86F 30.0C		
104F 40.0C		
122F 50.0C		
140F 60.0C		
168F 70.0C		
176F 80.0C		

Comments :

If you have any questions or require further information, please contact us.

Sincerely,



Laboratory Technician

cc: Jay Brown
Joe Hay

UNICHEM

A Division of BJ Services Company

ab Test No : 9458

Phillips

Sample Date : 3/26/96

Lab Date In : 3/28/96

Lab Date Out : 3/28/96

Water Analysis

Listed below please find water analysis report from : VGSAU

WSW #1

Specific Gravity : 1.000

Total Dissolved Solids : 198

pH :

Conductivity (uohms):

Ionic Strength : 0.006

Cations: mg/l

Calcium (Ca++): 38

Magnesium (Mg++): 18

Sodium (Na+): 4

Iron (Fe++): 0.30

Dissolved Iron (Fe++):

Barium (Ba++): 0.30

Strontium (Sr):

Manganese (Mn++): 0.04

Resistivity :

Anions:

Bicarbonate (HCO3-):

Carbonate (CO3--):

Hydroxide (OH-): 0

Sulfate (SO4--): 48

Chloride (Cl-): 90

Gases: ppm

Carbon Dioxide (CO2):

Oxygen (O2):

Hydrogen Sulfide (H2S):

Scale Index (positive value indicates scale tendency) a blank indicates some tests were not run

Temperature

CaCO3 SI

CaSO4 SI

86F 30.0C

104F 40.0C

122F 50.0C

140F 60.0C

168F 70.0C

176F 80.0C

Comments :

If you have any questions or require further information, please contact us.

Sincerely,



Laboratory Technician

cc: Jay Brown

Joe Hay

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

LABORATORY NO. 807-51 (pg 1)
SAMPLE RECEIVED 7-31-07
RESULTS REPORTED 8-8-07

LEASE

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

NO. 1 VGWU #1.

NO. 1 VGWU #2.
NO. 2

NO. 2 Central Vacuum #2.
NO. 3

NO. 3 _____
NO. 4 _____ Central Vacuum #3.

REMARKS: Samples taken by Tyler Ogden, Martin Water Labs, Inc. on 7-31-07

[illegible]

By

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

LABORATORY NO.	807-51 (pg 2)
SAMPLE RECEIVED	7-31-07
RESULTS REPORTED	8-8-07

LEASE

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

NO. 1 UGSAU #1.

UGSAU #4.

NO. 3

NO. 4

REMARKS: Samples taken by Tyler Ogden, Martin Water Labs, Inc. on 7-31-07

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0022		
pH When Sampled				
pH When Received	7.51	7.62		
Bicarbonate as HCO ₃	171	171		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	256	180		
Calcium as Ca	83	58		
Magnesium as Mg	12	9		
Sodium and/or Potassium	77	16		
Sulfate as SO ₄	61	24		
Chloride as Cl	156	36		
Iron as Fe	0.15	0.20		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	560	313		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	12.30	27.20		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.4	3.4		

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks _____

best of his knowledge and belief.

The undersigned certifies the above to be true and correct to the

By

LATHAM PRINTING CO. - 313-1282

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

LABORATORY NO. 807-51 (pg 1)
SAMPLE RECEIVED 7-31-07
RESULTS REPORTED 8-8-07

LEASE

SECTION _____ BLOCK _____ SURVEY _____ COUNTY Lea STATE NM

NO. 3		CVU	WS-3
NO. 4	Central Vacuum #3.	CVU	WS-3

Additional Determinations And Remarks

By _____

709 W. INDIANA
MIDLAND, TEXAS 79701
FAX (432) 682-8819

LABORATORY NO.	807-51 (pg 2)
SAMPLE RECEIVED	7-31-07
RESULTS REPORTED	8-8-07

NO. 1	VGSAU #1.	VGSAU WS-1
NO. 2	VGSAU #4.	VGSAU WS-4
NO. 3		
NO. 4		

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0022		
pH When Sampled				
pH When Received	7.51	7.62		
Bicarbonate as HCO ₃	171	171		
Supersaturation as CaCO ₃				
Undersaturation as CaCO ₃				
Total Hardness as CaCO ₃	256	180		
Calcium as Ca	83	58		
Magnesium as Mg	12	9		
Sodium and/or Potassium	77	16		
Sulfate as SO ₄	61	24		
Chloride as Cl	156	36		
Iron as Fe	0.15	0.20		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	560	313		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohm·cm at 77° F.	12.30	27.20		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				
Nitrate, as N	3.4	3.4		
Results Reported As Milligrams Per Liter				
The undersigned certifies the above to be true and correct to the best of his knowledge and belief.				

By

