

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised August 1, 2011

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

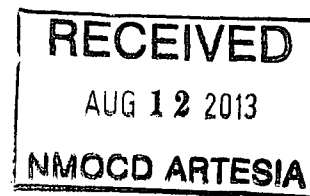
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-41077
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator ALAMO PERMIAN RESOURCES LLC		6. State Oil & Gas Lease No. STATE 647
3. Address of Operator 415 W. WALL ST., SUITE 500 MIDLAND, TX 79701		7. Lease Name or Unit Agreement Name STATE 647
4. Well Location Unit Letter :P 660 feet from the S line and 790 feet from the E line Section: 25 Township 17 S Range 28E NMPM County EDDY		8. Well Number 204
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3673 GR		9. OGRID Number 274841
		10. Pool name or Wildcat ARTESIA; Q-GB-SA

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 ☐	
DOWNHOLE COMMINGLE ☐			
OTHER: PLUGBACK/ADD PAY, PERF, ACIDIZE, FRAC ☒		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 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

SEE ATTACHED



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

SIGNATURE Carie Stoker TITLE Regulatory Affairs Coordinator DATE 08/09/2013

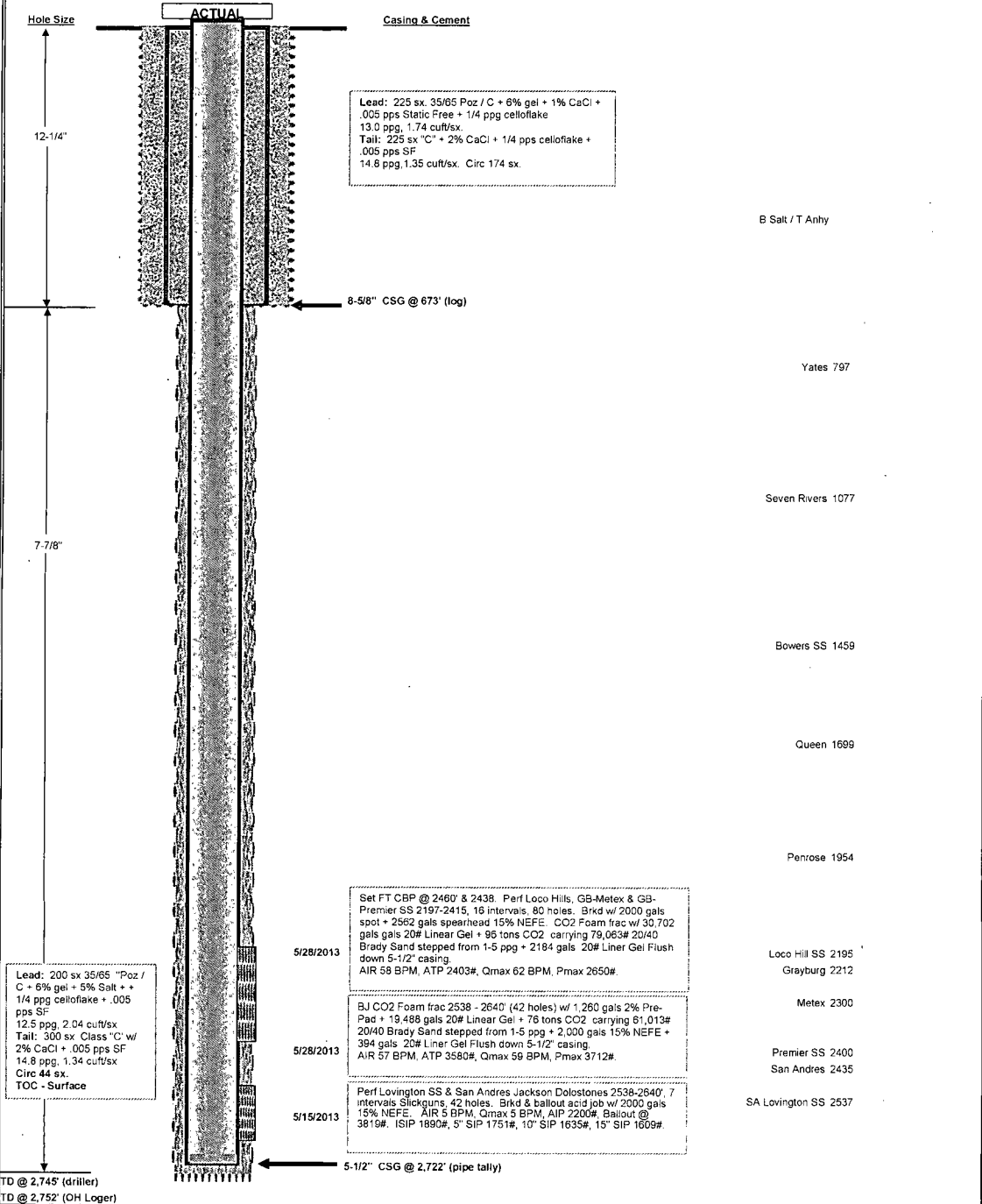
Type or print name Carie Stoker E-mail address: carie@stokeroilfield.com PHONE: 432 664 7659

For State Use Only

APPROVED [Signature] TITLE Dis-# Supervisor DATE 8/19/2013 Conditions of
BY: [Signature]
Approval (if any):

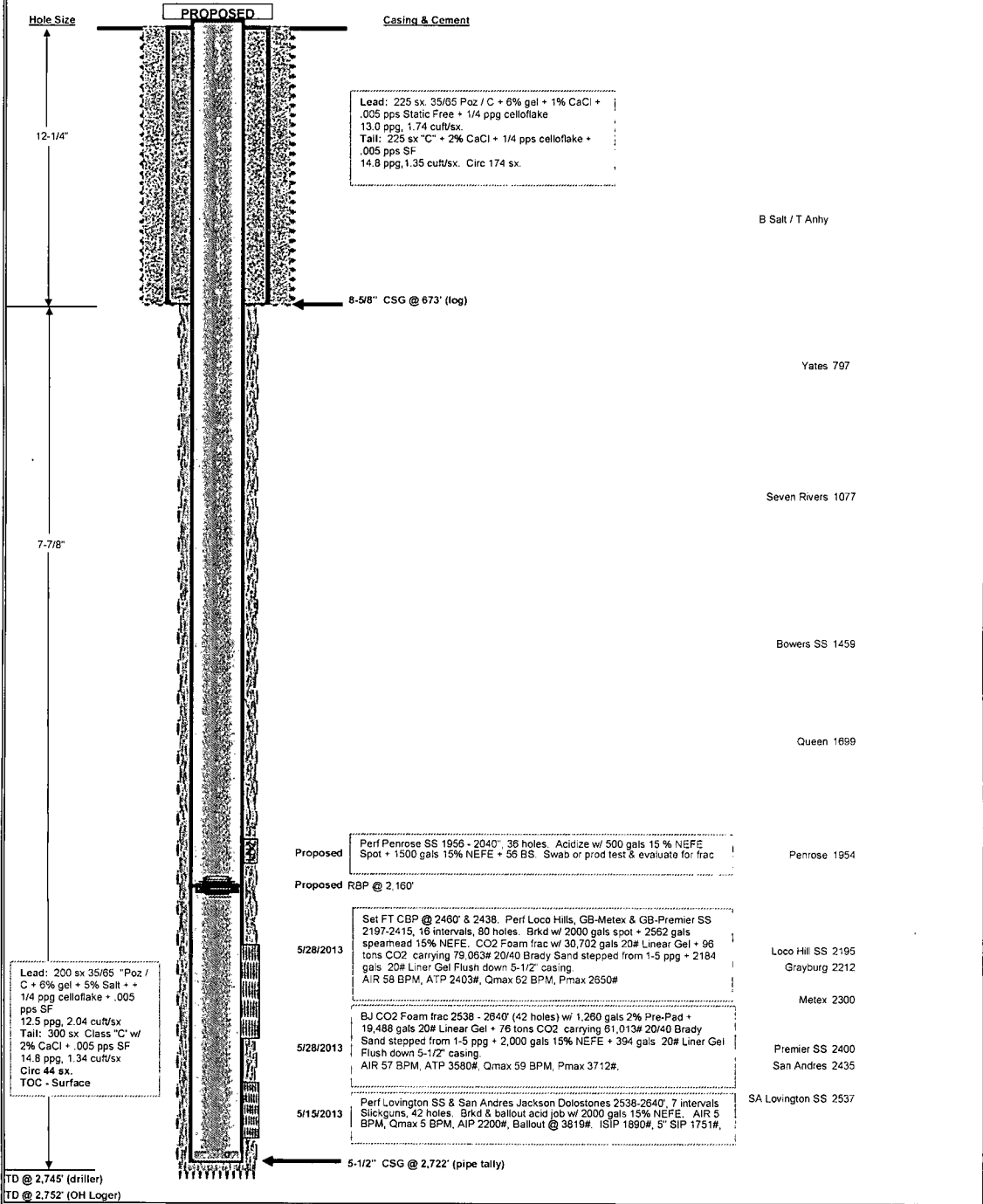
**Alamo Permian Resources
Actual Wellbore Diagram**

WELL NAME:	State 647 #204			FIELD:	Artesia (Qn-Grbg-SA)		
LOCATION:	660' FSL & 790' FEL, Sec 25, T-17-S, R-28-E - Unit P			COUNTY:	Eddy	STATE:	NM
ELEVATION:	GL = 3673', KB = 3685' (12' KB Corr)			Lat 32° 48' 04.424" N, Long 104° 07' 26.675" W	SPUD DATE:	4/15/12 13:00	COMP DATE:
API#	30-015-41077				PREPARED BY:	M Stewart	
	DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	THREAD	CEMENT / TOC
CASING:	673	12-1/4"	8-5/8"	24 #	J-55	ST&C	225 sx lead + 225 sx tail. Circ 174 sx. TOC Surface
CASING:	2722	7-7/8"	5-1/2"	17 # LS	J-55	LT&C	200 sx lead + 300 sx tail. Circ 44 sx. TOC Surface
CASING:							
TUBING:							
TUBING:							



**Alamo Permian Resources
Proposed PB to Penrose SS Wellbore Diagram**

WELL NAME:	State 647 #204			FIELD:	Artesia (Qn-Grbg-SA)		
LOCATION:	860' FSL & 790' FEL, Sec 25, T-17-S, R-28-E - Unit P			COUNTY:	Eddy	STATE:	NM
ELEVATION:	GL = 3673'; KB = 3685' (12' KB Corr)			Lat 32° 48' 04.424" N, Long 104° 07' 26.675" W	SPUD DATE:	4/15/12 13:00	COMP DATE:
API#	30-015-41077				PREPARED BY:	M Stewart	
	DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	THREAD	CEMENT / TOC
CASING:	673	12-1/4"	8-5/8"	24 #	J-55	ST&C	225 sx lead + 225 sx tail. Circ 174 sx. TOC Surface
CASING:	2722	7-7/8"	5-1/2"	17 # LS	J-55	LT&C	200 sx lead + 300 sx tail. Circ 44 sx. TOC Surface
CASING:							
TUBING:							
TUBING:							



Wellbore Information:

- 5-1/2", 17#/ft., J-55 Casing Set @ 2719' (pipe tally & CH Log)
- TOC @ Surface.
 - Gas cut cement from 2530-2570' & 2210-2300'
- PBSD @ 2686' (FC).
- Perforations, Acid & Frac
 - 5/15/13
 - Interval Lovington SS & San Andres Jackson Dolostones
 - Top Perf 2,538'
 - Bottom Perf 2,640'
 - Total 7 intervals, 17.5', 102.5' overall, 2 SPF, 42 holes
 - Stage I perfs 2,538-2,640' (42 holes)
 - Spotted 500 gals 15% NEFE.
 - Brkd @ 2790# w/ pkr @ 2390'
 - Acidized w/ additional 1500 gals 15% NEFE
 - AIR 5.0 BPM, AIP 2200#, Qmax 5.0 BPM, Pmax 3819# @ ballout
 - ISIP 1890#, 5" SIP 1751#, 10" SIP 1635#, and 15" SIP 1609#.
 - Frac Gradient using ISIP = 1.16 psi/ft., using 5" SIP = 1.11 psi/ft.
 - 5/28/13
 - Stage I
 - RU Baker Hughes and fracture stimulate Lovington SS & San Andres Jackson Dolostones pay 2,538 – 2,640' (total 42 holes) down 5-1/2" casing w/ 1,260 gals 2% Pre-Pad + 19,488 gals 20# Linear Gel + 76 tons CO₂ carrying 61,013# 20/40 Brady Sand stepped from 1-5 ppg + 2,000 gals 15% NEFE + 394 gals 20# Liner Gel Flush down 5-1/2" casing.
 - following:
 - Pad AIR 57 BPM, Pavg 3,550 psi, Qmax 62.0 BPM, Pmax 3,650 psi
 - Sand AIR 58 BPM, Pavg 3,680 psi, Qmax 62.0 BPM, Pmax 3,750 psi
 - Flush AIR 35 BPM, Pavg 3,725 psi, Qmax 38.0 BPM, Pmax 3,800 psi
 - Sand
 - 61,013# 20/40 Brady (proposed 61,000#)
 - ProTechnics tagged the 1-3.5 ppg sand w/ 37 mCi Ir-192 and the 4-5 ppg sand stage w/ 24 mCi Sc-46.
 - CO₂
 - 76 tons DH + 10 tons cool down. Planned volume was 72 tons CO₂ DH.
 - ISIP 2,400 psi, 5" SIP 1,935 psi, 10" SIP 1,851 psi, 15" SIP 1,800 psi
 - LTR = 476 bbls
 - Stage II
 - Interval Loco Hills, GB-Metex & GB-Premier SS
 - Set FT CBP @ 2,460' & 2,438.
 - Perf Loco Hills, GB-Metex & GB-Premier SS 2,197-2,415, 16 intervals, 80 holes

- Top Perf 2,197'
- Bottom Perf 2,415'
- RU Baker Hughes and fracture stimulate Loco Hills, GB-Metex & GB-Premier SS pay 2,197 – 2,415' (total 80 holes) down 5-1/2" casing w/ Brkd w/ 2000 gals spot + 2562 gals spearhead 15% NEFE. CO2 Foam frac w/ 30,702 gals 20# Linear Gel + 96 tons CO2 carrying 79,063# 20/40 Brady Sand stepped from 1-5 ppg + 2184 gals 20# Liner Gel Flush down 5-1/2" casing.
 - Pad AIR 57 BPM, Pavg 2,530 psi, Qmax 58.0 BPM, Pmax 2,650 psi
 - SD due to sand hulk motor down. Had to restart pad.
 - Pad #2 AIR 57 BPM, Pavg 2,480 psi, Qmax 58.0 BPM, Pmax 2,945 psi
 - Sand AIR 58 BPM, Pavg 2,425 psi, Qmax 59.0 BPM, Pmax 2,945 psi
 - Flush AIR 59 BPM, Pavg 2,420 psi, Qmax 62.0 BPM, Pmax 2,458 psi
- Sand
 - 79,063# 20/40 Brady (proposed 81,000#)
 - ProTechnics tagged the 1-3 ppg sand w/ 37 mCi Ir-192 and the 4-5 ppg sand stage w/ 24 mCi Sc-46.
- CO2
 - 96 tons DH + 10 tons cool down. Planned volume was 93 tons CO2 DH.
- ISIP 1,769 psi, 5" SIP 1,635 psi, 10" SIP 1,578 psi, 15" SIP 1,543 psi
- LTR = 761 bbls

Procedure to PB & Add Penrose SS Intervals 1,956 – 2,040'

1. MIRU WSU.
2. Unhang HH, unseat pump & POOH w/ rods & pump.
3. NDWH, release TAC & NUBOP. POOH w/ production tbg & BHA.
4. RU E-Line
5. **RU pack off on BOP, PU guns and perforate Penrose SS Intervals 1,956 – 2,040' w/ 3-1/8" Selectfire w/ 2 SPF per the detailed perforation sheet.**
Total 18 intervals, 84' gross interval, 36 holes. RD E-Line.
6. PU 5-1/2" RBP & 5-1/2" x 2-7/8" treating packer & RIH on 2-7/8" production tbg to 2,160'.
Hydro test tbg in hole.
7. Set RBP @ 2,160' (collars @ 2,145' & 2,174'). PU 1 jt & set pkr. RU on tbg & test RBP to 2500#.
8. Release pkr & circulate WB clean w/ 2% KCL wtr. Spot 2 sx. sand on top of RBP.
9. PUH to 2,040' w/ pkr swinging.
10. RU Acid Company & spot 500 gals 15% NEFE from 2,040' to 1,527'. PUH w/ pkr to 1,900' & reverse acid into tbg w/ 6.0 bbls 2% KCL wtr. Set pkr & RU on tubing.
11. Brkd perfs 1,956 – 2,040' w/ 500 gals spot acid + 1,500 gals additional 15% NEFE dropping 56 7/8" RNCB's. Flush to bottom perf w/ 2% KCl wtr.
12. RD Acid Company and let acid spend for min 3 hrs.

Alamo Permian Resources

State 647 #204

Sec 25, T-17-S, R-28-E, Unit J, Eddy Co. NM

Proposed PB to Test the Penrose Interval

8/7/13 5:20 pm

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13. RU swab and swab / flow well to $\frac{1}{2}$ frac FBT.

14. **After swab results will either elect to:**

- a. Run production tubing, pump & rods and test pump well to TB, or
- b. LD tubing & RU to frac interval down 5-1/2" casing.